

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P622532

Luminaire Tested: **PRV-M-C275-D-U-T2-BZ-7050**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/29/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-M-C275-D-U-T2-BZ-7050  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

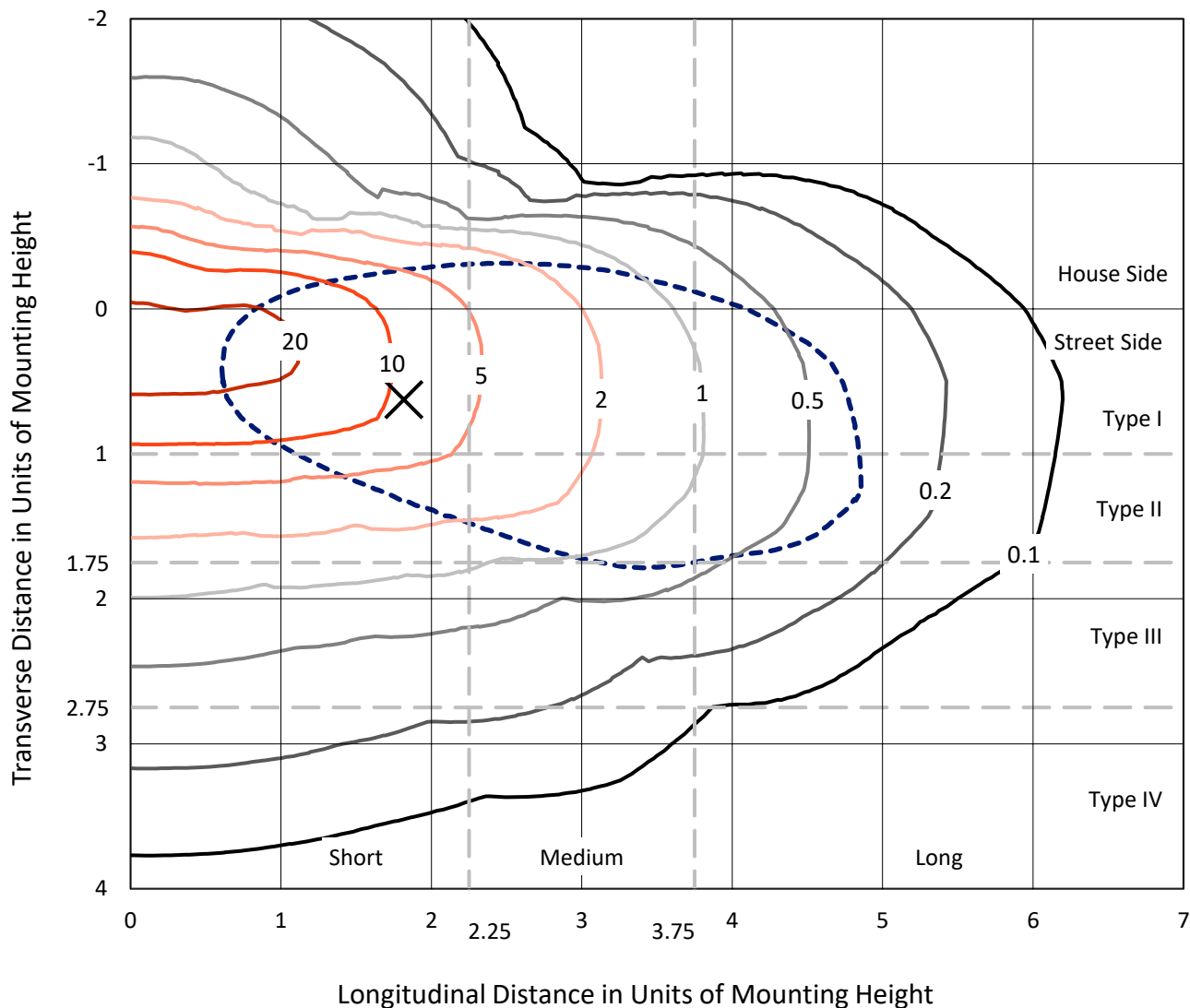
Lumens per Lamp: N/A  
Luminaire Lumens: 80777 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 587.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

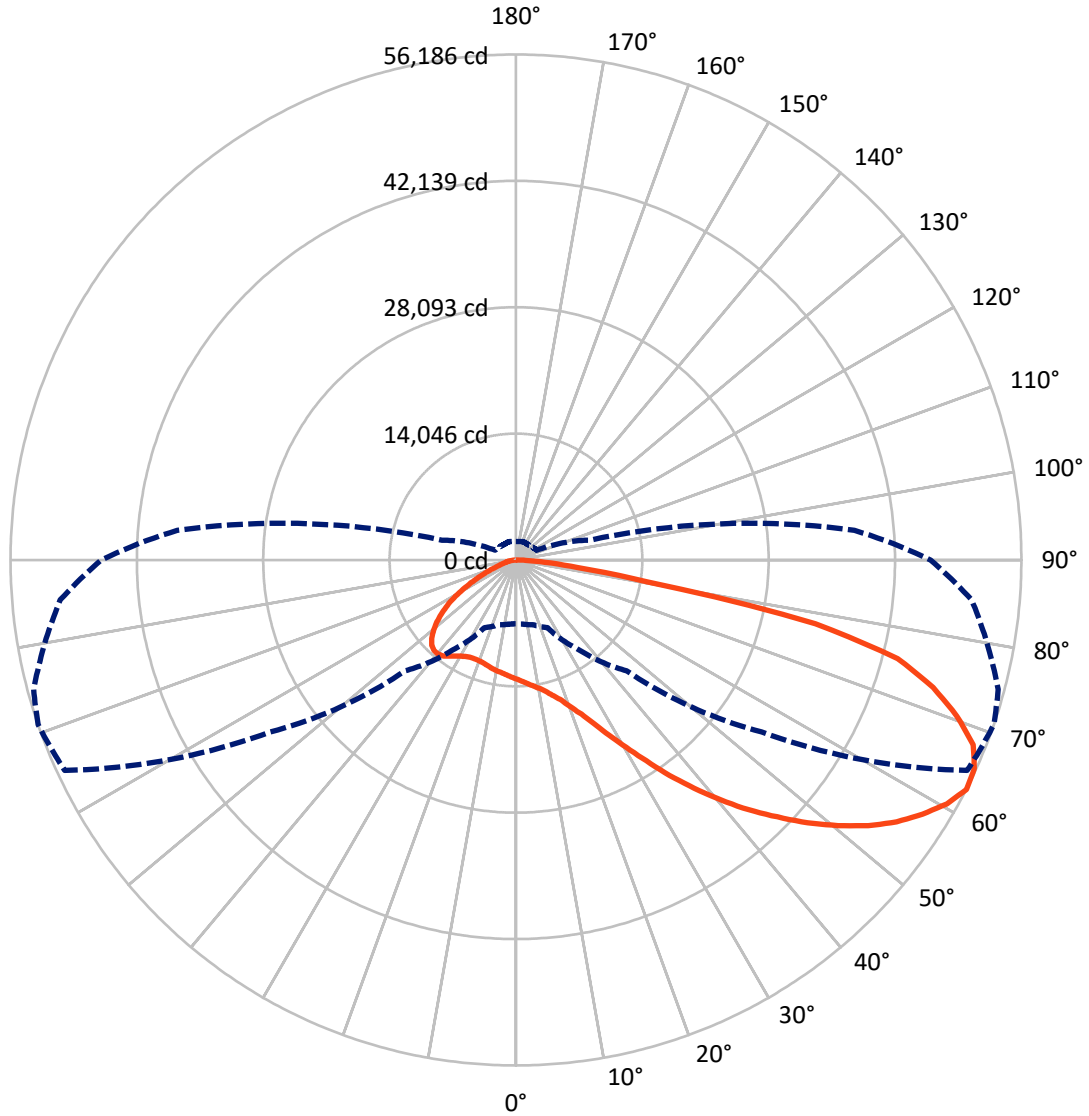
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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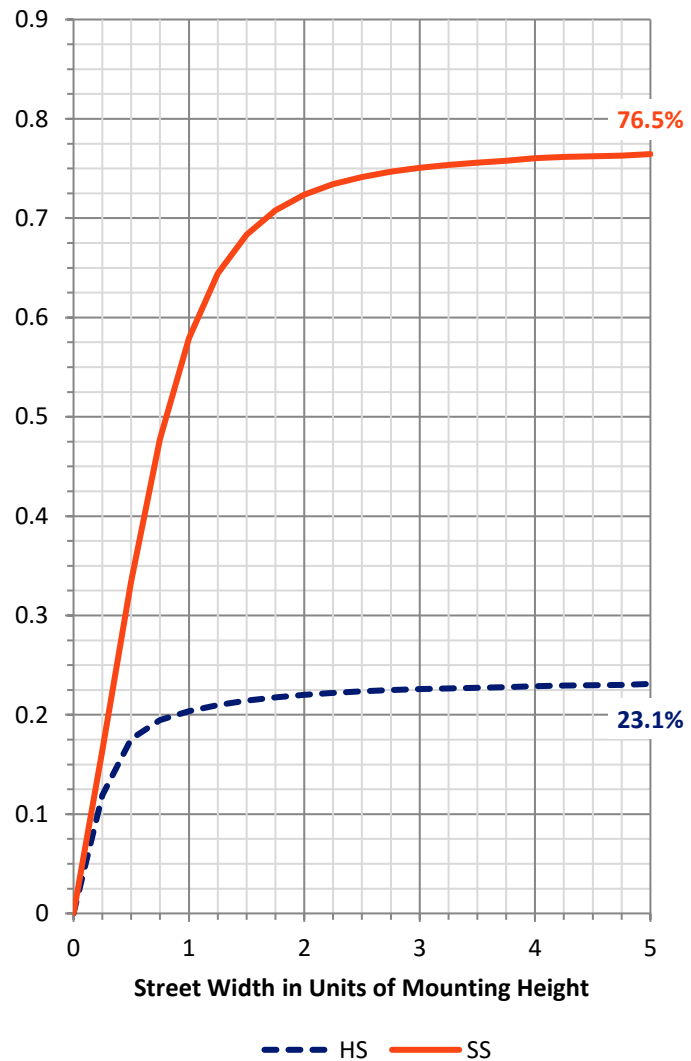
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18997.6	0.0	18997.6
	% Fixture	23.5	0.0	23.5
<b>Street Side</b>	Lumens	61779.4	0.0	61779.4
	% Fixture	76.5	0.0	76.5
<b>Total</b>	Lumens	80777.0	0.0	80777.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1281.0	1.6
10°-20°	3926.0	4.9
20°-30°	6799.0	8.4
30°-40°	10120.9	12.5
40°-50°	13620.5	16.9
50°-60°	16118.2	20.0
60°-70°	16342.3	20.2
70°-80°	10908.5	13.5
80°-90°	1660.6	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	80777.0	100.0
0°-180°	80777.0	100.0

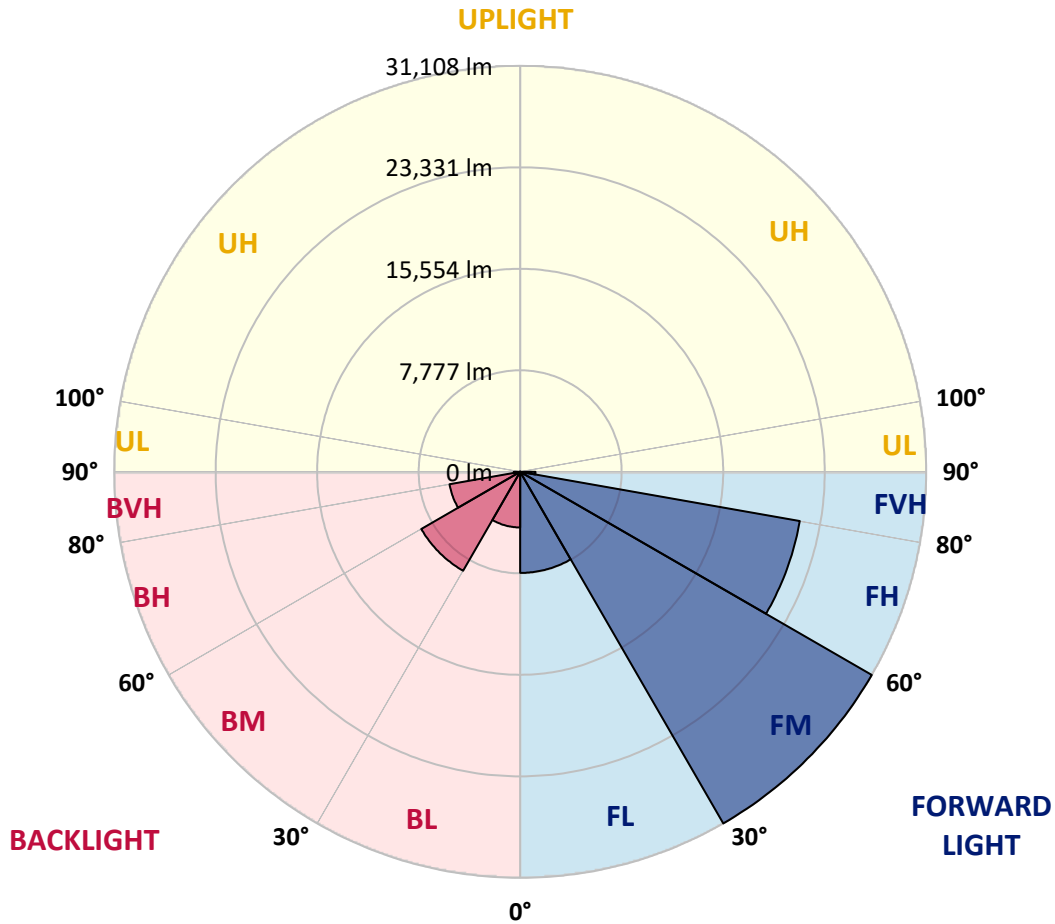


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7743.8	9.6			
FM (30°-60°)	31107.9	38.5			
FH (60°-80°)	21754.1	26.9			G5
FVH (80°-90°)	1173.5	1.5			G5
BL (0°-30°)	4262.1	5.3	B4/5000		
BM (30°-60°)	8751.7	10.8	B5		
BH (60°-80°)	5496.7	6.8	B5		G5
BVH (80°-90°)	487.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9
2.5°	13953.0	13924.1	13985.1	13953.0	13885.6	13768.5	13685.1	13614.5	13505.4	13458.8	13369.0
5°	14761.6	14774.4	14835.4	14695.8	14573.9	14362.1	14187.2	14004.3	13819.8	13704.3	13481.3
7.5°	15592.6	15621.5	15626.3	15499.6	15300.6	15047.1	14739.1	14458.4	14159.9	14015.6	13649.8
10°	16313.0	16335.4	16319.4	16250.4	16038.6	15701.7	15337.5	14912.4	14532.2	14323.6	13818.2
12.5°	17006.1	17052.6	17001.2	16882.5	16662.7	16329.0	15985.7	15470.7	15024.7	14742.3	14023.6
15°	17753.7	17729.6	17651.0	17484.1	17320.5	17046.2	16651.5	16184.6	15664.8	15289.4	14376.5
17.5°	18348.9	18403.4	18360.1	18206.1	18008.8	17740.8	17479.3	16985.2	16399.6	16046.7	14907.6
20°	18896.0	18936.1	18908.8	18833.4	18785.3	18613.6	18397.0	17983.1	17426.4	16964.3	15589.4
22.5°	19282.6	19343.6	19451.1	19539.3	19608.3	19571.4	19484.8	19245.7	18615.2	18212.5	16524.7
25°	19504.0	19565.0	19861.8	20184.3	20519.6	20716.9	20816.4	20784.3	20131.3	19752.7	17849.9
27.5°	19635.6	19711.0	20123.3	20715.3	21353.8	21857.6	22321.2	22472.1	22042.1	21674.7	19449.5
30°	19674.1	19755.9	20235.6	21041.0	22112.7	23073.7	23834.1	24450.2	24158.2	23681.7	21419.6
32.5°	19447.9	19531.3	20067.1	21204.6	22709.5	24260.9	25361.5	26507.0	26624.1	26184.5	23805.3
35°	18836.6	18950.5	19661.2	21151.7	23269.4	25446.5	26842.3	28677.7	29398.0	29027.4	26213.4
37.5°	18072.9	18122.7	19045.2	20822.8	23558.2	26397.9	28512.4	31295.9	32199.2	31894.4	28806.0
40°	17192.2	17230.7	18254.2	20248.4	23633.6	27188.8	30076.6	33797.1	35045.3	34515.9	31215.7
42.5°	16033.8	16269.7	17282.0	19516.8	23457.1	27776.0	31520.6	36771.6	37971.6	37585.0	33506.7
45°	15026.3	15096.9	16126.9	18368.1	22945.3	28228.4	32852.2	39362.6	40740.7	40336.4	36352.8
47.5°	14042.8	14042.8	15015.1	17067.0	21968.3	28400.1	34162.9	42049.9	43649.4	43182.5	38855.6
50°	11410.1	11923.5	13855.1	15955.2	20473.0	28096.9	35533.0	44863.9	46410.5	45950.0	41151.4
52.5°	9441.6	9500.9	11206.3	14715.0	18822.2	27145.5	36689.8	47892.9	49048.0	48353.3	43474.5
55°	8677.9	8703.6	9393.4	12866.8	17312.5	25533.1	37331.5	50442.2	51371.1	50591.4	45585.8
57.5°	8174.1	8235.1	8562.4	10349.6	15724.2	23064.1	37477.5	52824.6	53286.7	52418.7	47485.4
60°	7538.8	7585.3	8087.5	9075.8	13949.8	19911.5	36543.8	54626.3	55045.1	54222.0	49315.9
62.5°	7091.2	7134.5	7450.6	8296.1	12160.9	17411.9	33327.0	55348.3	56185.7	55497.5	50840.1
65°	6574.6	6637.2	6937.2	7692.8	10879.1	15632.7	30505.0	54372.8	55990.0	55794.3	51677.5
67.5°	5977.8	6024.3	6337.2	6980.5	9525.0	14272.2	27371.7	52755.7	54817.2	54887.8	51066.3
70°	5347.3	5363.3	5673.0	6184.7	7824.4	12618.2	22632.5	50053.9	51996.8	51985.6	48375.8
72.5°	4570.8	4626.9	4938.2	5413.1	6545.7	10582.3	17712.0	45297.1	48510.6	48711.1	44031.2
75°	3784.6	3834.4	4092.7	4540.3	5352.1	8570.4	12578.1	36344.8	43827.5	44376.2	38225.1
77.5°	2308.7	2404.9	2587.8	3086.8	4100.7	6733.4	8031.3	21625.0	34049.0	36094.5	30310.9
80°	1022.0	1408.6	1830.6	2101.7	2493.2	4548.3	4373.4	9691.8	14785.6	20025.4	19396.5
82.5°	314.5	404.3	1147.1	1350.9	1488.8	1902.8	2027.9	4803.4	6828.1	7763.4	8799.8
85°	133.2	170.1	474.9	620.9	667.4	502.2	794.2	2159.4	3202.3	3635.4	3422.1
87.5°	35.3	40.1	128.3	179.7	184.5	160.4	207.0	726.8	1071.7	1249.8	1082.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9	13243.9
2.5°	13304.8	13213.4	13102.7	12948.7	12829.9	12720.8	12679.1	12558.8	12517.1	12528.3	12509.1
5°	13341.7	13194.1	12929.4	12659.9	12420.8	12228.3	12117.6	11974.8	11950.8	11949.2	11875.4
7.5°	13436.4	13215.0	12801.1	12416.0	12083.9	11819.2	11631.5	11469.5	11435.8	11432.6	11378.0
10°	13526.2	13224.6	12712.8	12226.7	11766.3	11406.9	11153.4	10967.3	10888.7	10845.4	10781.2
12.5°	13649.8	13251.9	12608.5	12010.1	11461.4	10996.2	10693.0	10442.7	10340.0	10248.6	10234.1
15°	13892.0	13369.0	12497.8	11716.5	11119.7	10537.3	10139.5	9897.2	9783.3	9667.8	9603.6
17.5°	14270.6	13598.4	12433.7	11431.0	10686.5	10043.2	9542.6	9292.4	9093.4	8997.2	8957.1
20°	14753.6	13954.6	12448.1	11158.2	10208.4	9499.3	8875.2	8578.4	8326.5	8273.6	8201.4
22.5°	15509.2	14485.6	12565.2	10920.8	9776.9	8891.3	8203.0	7744.2	7439.3	7394.4	7391.2
25°	16550.4	15247.7	12748.1	10680.1	9226.6	8239.9	7408.9	6836.1	6523.3	6409.4	6415.8
27.5°	17951.0	16367.5	13107.5	10463.5	8629.8	7352.7	6391.7	5863.9	5544.6	5443.5	5408.2
30°	19616.3	17697.5	13651.4	10232.5	7922.3	6276.2	5371.3	4922.1	4596.4	4493.8	4482.5
32.5°	21674.7	19398.1	14355.7	9938.9	7113.7	5217.3	4501.8	4094.3	3768.6	3548.8	3593.7
35°	24020.2	21329.8	15196.4	9661.4	6152.7	4413.6	3821.5	3324.2	2993.7	2871.8	2868.6
37.5°	26168.5	23088.1	16045.0	9330.9	5292.7	3840.8	3098.0	2733.8	2512.4	2401.7	2416.1
40°	28273.4	24891.4	16742.9	8817.5	4399.1	3197.5	2443.4	2315.1	2254.1	2199.6	2202.8
42.5°	30397.5	26640.1	17227.5	8065.0	3723.7	2589.4	2087.3	2181.9	2247.7	2230.0	2210.8
45°	32526.5	28371.2	17549.9	7009.4	3101.2	2162.7	2032.7	2188.3	2294.2	2313.5	2294.2
47.5°	34921.8	30025.3	17583.6	5618.4	2642.4	2098.5	2058.4	2149.8	2324.7	2371.2	2340.7
50°	37358.8	31602.4	17201.8	4278.8	2451.4	2149.8	2112.9	2101.7	2273.4	2323.1	2303.8
52.5°	39396.3	32977.3	16314.6	3385.2	2395.3	2215.6	2217.2	2103.3	2193.1	2252.5	2279.8
55°	41515.6	34653.8	14784.0	2963.2	2401.7	2244.5	2305.4	2153.0	2159.4	2143.4	2172.3
57.5°	43285.2	35890.8	12984.0	2814.0	2406.5	2273.4	2292.6	2185.1	2186.7	2100.1	2053.6
60°	44889.6	37111.7	10818.1	2676.0	2395.3	2278.2	2239.7	2218.8	2191.5	2114.5	2068.0
62.5°	46091.2	37788.7	8530.3	2567.0	2360.0	2250.9	2154.6	2181.9	2135.4	2058.4	2061.6
65°	46591.8	37604.2	6415.8	2433.8	2303.8	2215.6	2092.1	2079.2	2042.3	1960.5	1966.9
67.5°	45589.1	35717.5	4667.0	2231.6	2215.6	2157.8	2029.5	1978.2	1926.8	1870.7	1896.3
70°	42640.3	32189.6	3268.0	1936.4	2072.8	2064.8	1978.2	1920.4	1843.4	1756.8	1772.8
72.5°	37849.7	27798.5	2233.2	1605.9	1816.1	1933.2	1889.9	1835.4	1694.2	1463.2	1426.3
75°	31644.1	22189.7	1642.8	1267.4	1471.2	1716.6	1668.5	1612.4	1588.3	1914.0	1907.6
77.5°	24570.5	15193.1	1307.5	1013.9	1190.4	1257.8	1448.7	1589.9	2393.7	2066.4	1992.6
80°	14997.4	8982.7	1057.3	752.4	792.5	882.4	1232.1	1958.9	2255.7	1374.9	1294.7
82.5°	7518.0	4373.4	832.7	510.2	548.7	495.7	884.0	2262.1	1591.5	786.1	733.2
85°	2704.9	1384.5	377.0	247.1	243.9	150.8	499.0	1761.6	1023.6	588.8	553.5
87.5°	694.7	253.5	51.3	30.5	20.9	19.3	125.1	877.6	446.0	285.6	234.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)