

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: P622528

Luminaire Tested: **PRV-M-C275-D-U-T2-BZ-7030**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622528  
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-7030  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

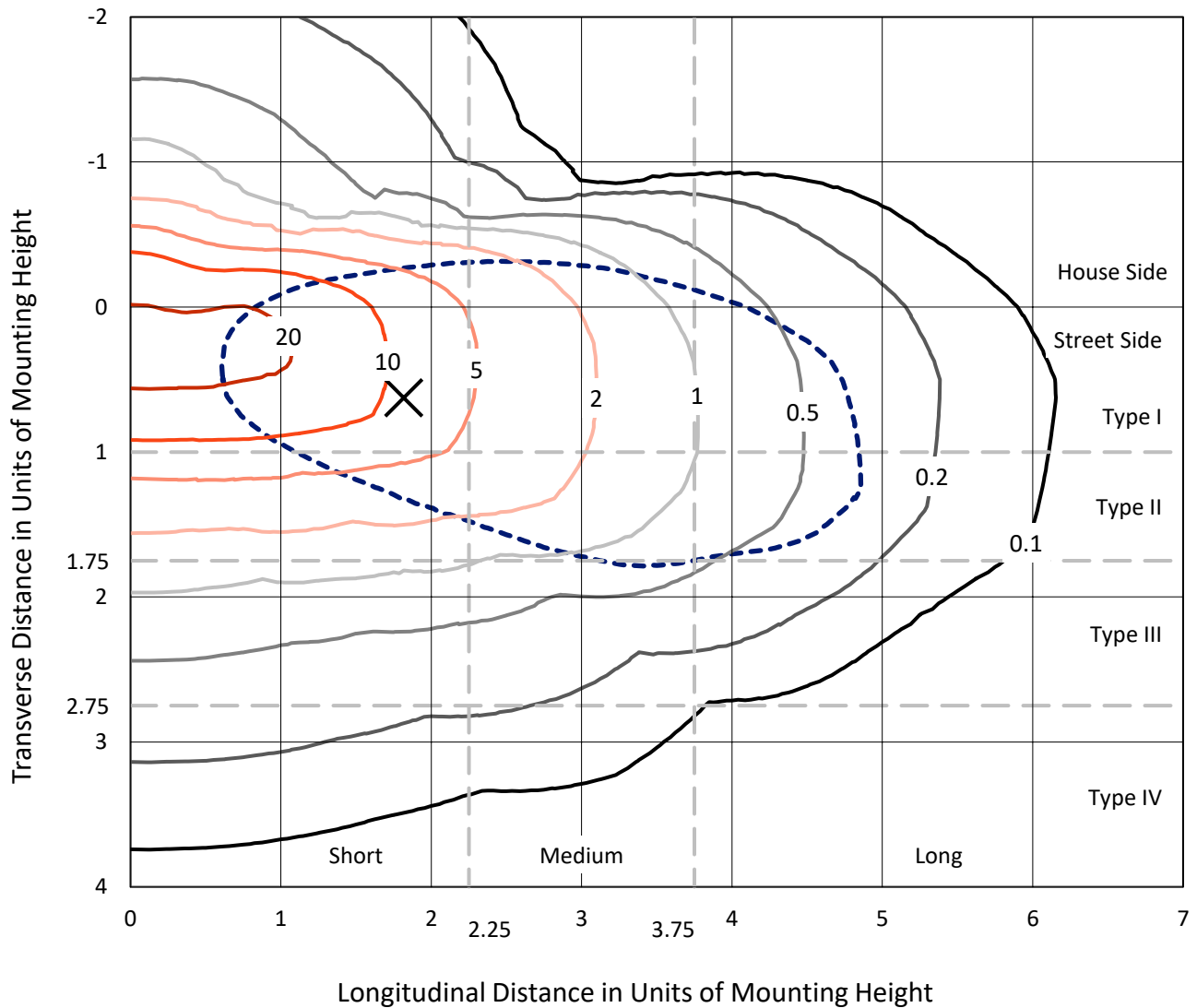
Lumens per Lamp: N/A  
Luminaire Lumens: 77886 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 587.5  
Input Voltage (V): NR  
Input Current (Ain): 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

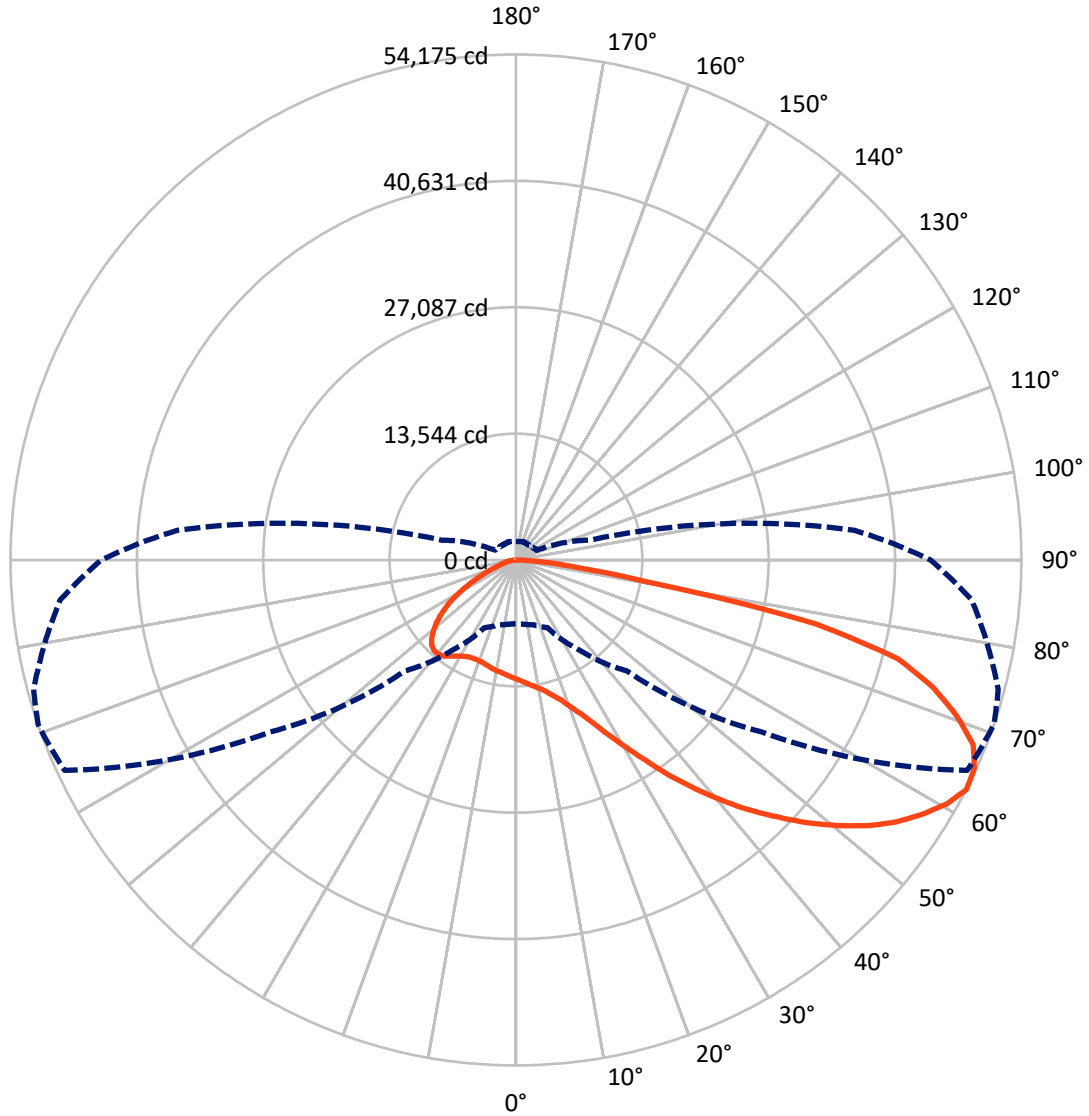
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 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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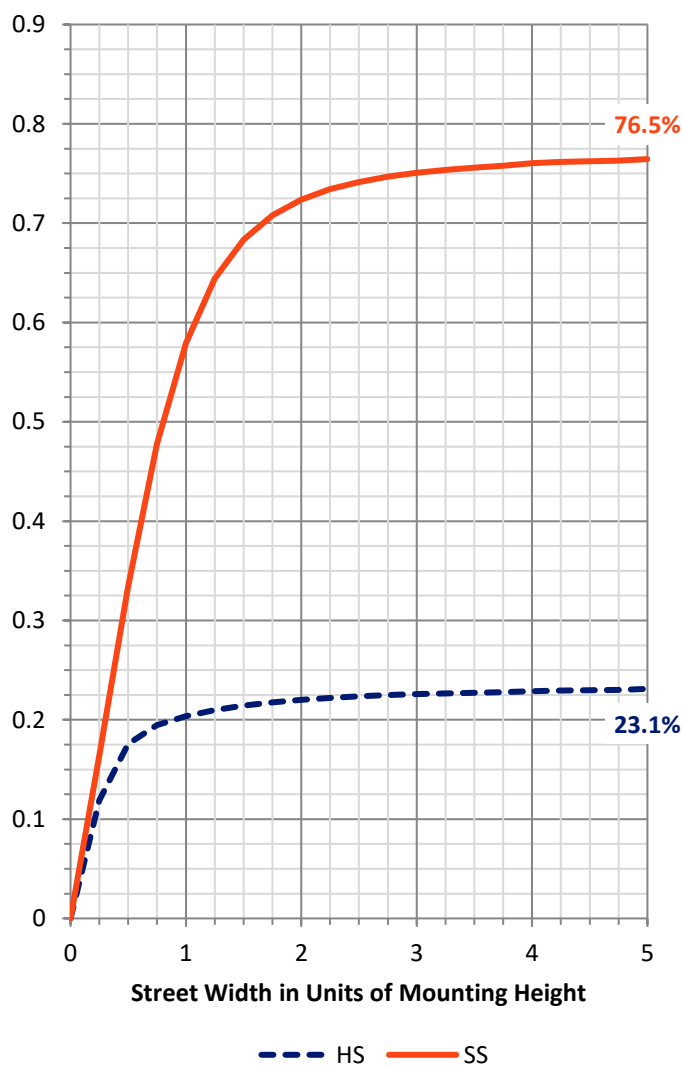
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18317.7	0.0	18317.7
	% Fixture	23.5	0.0	23.5
<b>Street Side</b>	Lumens	59568.3	0.0	59568.3
	% Fixture	76.5	0.0	76.5
<b>Total</b>	Lumens	77886.0	0.0	77886.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1235.1	1.6
10°-20°	3785.5	4.9
20°-30°	6555.6	8.4
30°-40°	9758.7	12.5
40°-50°	13133.0	16.9
50°-60°	15541.4	20.0
60°-70°	15757.4	20.2
70°-80°	10518.0	13.5
80°-90°	1601.2	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°	77886.0	100.0
0°-180°	77886.0	100.0

**Coefficient of Utilization**

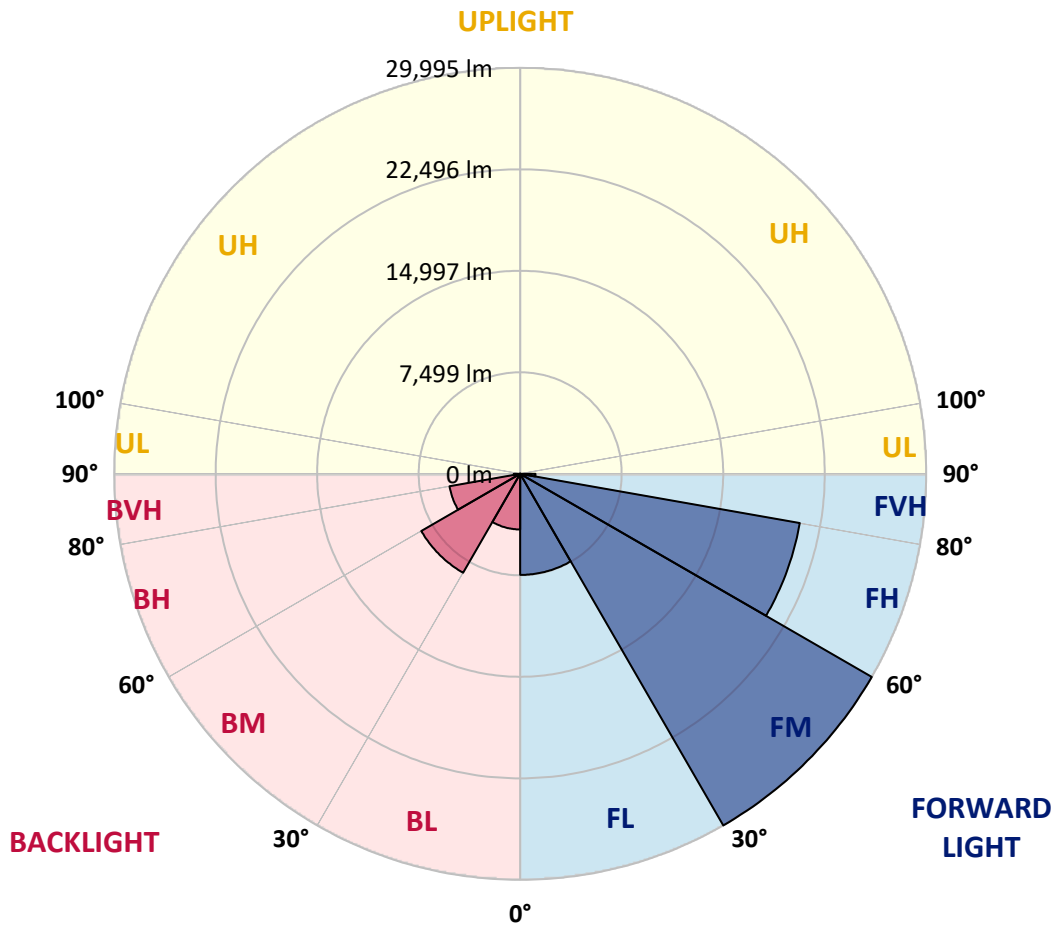


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7466.7	9.6			
FM (30°-60°)	29994.6	38.5			
FH (60°-80°)	20975.5	26.9			G5
FVH (80°-90°)	1131.5	1.5			G5
BL (0°-30°)	4109.6	5.3	B4/5000		
BM (30°-60°)	8438.5	10.8	B4/8500		
BH (60°-80°)	5299.9	6.8	B5		G5
BVH (80°-90°)	469.7	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°	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9
2.5°	13453.6	13425.8	13484.5	13453.6	13388.6	13275.7	13195.3	13127.2	13022.0	12977.2	12890.5
5°	14233.3	14245.6	14304.4	14169.8	14052.3	13848.1	13679.5	13503.1	13325.2	13213.8	12998.8
7.5°	15034.6	15062.4	15067.1	14944.8	14753.0	14508.6	14211.6	13940.9	13653.2	13513.9	13161.2
10°	15729.1	15750.8	15735.3	15668.8	15464.6	15139.8	14788.6	14378.7	14012.0	13810.9	13323.7
12.5°	16397.4	16442.3	16392.8	16278.3	16066.4	15744.6	15413.6	14917.0	14487.0	14214.7	13521.7
15°	17118.3	17095.1	17019.3	16858.4	16700.6	16436.1	16055.5	15605.4	15104.2	14742.2	13862.0
17.5°	17692.2	17744.8	17703.0	17554.5	17364.2	17105.9	16853.7	16377.3	15812.7	15472.3	14374.0
20°	18219.7	18258.4	18232.1	18159.4	18112.9	17947.4	17738.6	17339.5	16802.7	16357.2	15031.5
22.5°	18592.5	18651.3	18754.9	18840.0	18906.5	18870.9	18787.4	18556.9	17949.0	17560.7	15933.3
25°	18806.0	18864.8	19150.9	19461.9	19785.2	19975.4	20071.4	20040.4	19410.8	19045.7	17211.1
27.5°	18932.8	19005.5	19403.1	19973.9	20589.6	21075.3	21522.4	21667.8	21253.2	20899.0	18753.4
30°	18969.9	19048.8	19511.4	20287.9	21321.3	22247.9	22981.1	23575.1	23293.6	22834.2	20653.0
32.5°	18751.8	18832.3	19348.9	20445.7	21896.7	23392.6	24453.8	25558.3	25671.2	25247.4	22953.3
35°	18162.4	18272.3	18957.6	20394.7	22436.6	24535.8	25881.6	27651.3	28345.9	27988.5	25275.2
37.5°	17426.1	17474.1	18363.5	20077.5	22715.0	25453.1	27492.0	30175.9	31046.8	30752.9	27775.0
40°	16576.8	16614.0	17600.9	19523.7	22787.8	26215.7	29000.2	32587.5	33791.0	33280.5	30098.5
42.5°	15460.0	15687.4	16663.5	18818.3	22617.6	26781.9	30392.4	35455.5	36612.6	36239.8	32307.5
45°	14488.5	14556.6	15549.7	17710.7	22124.1	27218.1	31676.4	37953.8	39282.6	38892.8	35051.8
47.5°	13540.2	13540.2	14477.7	16456.2	21182.0	27383.7	32940.2	40544.9	42087.2	41637.0	37465.0
50°	11001.7	11496.7	13359.2	15384.2	19740.3	27091.3	34261.3	43258.2	44749.4	44305.5	39678.6
52.5°	9103.7	9160.9	10805.3	14188.4	18148.5	26174.0	35376.6	46178.8	47292.6	46622.8	41918.6
55°	8367.3	8392.1	9057.2	12406.3	16692.9	24619.3	35995.4	48636.9	49532.5	48780.7	43954.3
57.5°	7881.6	7940.4	8255.9	9979.2	15161.4	22238.6	36136.2	50934.1	51379.6	50542.7	45785.9
60°	7269.0	7313.9	7798.0	8751.0	13450.5	19198.9	35235.9	52671.3	53075.0	52281.4	47550.9
62.5°	6837.4	6879.2	7183.9	7999.1	11725.7	16788.8	32134.3	53367.4	54174.9	53511.2	49020.5
65°	6339.3	6399.6	6688.9	7417.5	10489.7	15073.2	29413.2	52426.8	53986.1	53797.4	49828.0
67.5°	5763.8	5808.7	6110.4	6730.7	9184.1	13761.4	26392.1	50867.5	52855.3	52923.4	49238.6
70°	5155.9	5171.4	5469.9	5963.4	7544.4	12166.6	21822.5	48262.5	50135.8	50125.0	46644.4
72.5°	4407.2	4461.3	4761.4	5219.3	6311.5	10203.5	17078.1	43675.9	46774.4	46967.7	42455.4
75°	3649.2	3697.2	3946.2	4377.8	5160.5	8263.7	12127.9	35044.0	42258.9	42787.9	36857.0
77.5°	2226.0	2318.8	2495.2	2976.3	3953.9	6492.4	7743.9	20851.0	32830.4	34802.7	29226.1
80°	985.4	1358.2	1765.0	2026.5	2403.9	4385.5	4216.9	9345.0	14256.5	19308.7	18702.3
82.5°	303.2	389.8	1106.1	1302.5	1435.5	1834.7	1955.3	4631.5	6583.7	7485.6	8484.9
85°	128.4	164.0	457.9	598.7	643.5	484.2	765.7	2082.2	3087.7	3505.3	3299.6
87.5°	34.0	38.7	123.8	173.3	177.9	154.7	199.6	700.8	1033.3	1205.1	1044.2
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°	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9	12769.9
2.5°	12828.6	12740.5	12633.7	12485.2	12370.8	12265.6	12225.3	12109.3	12069.1	12079.9	12061.4
5°	12864.2	12721.9	12466.7	12206.8	11976.3	11790.7	11683.9	11546.2	11523.0	11521.5	11450.3
7.5°	12955.5	12742.0	12342.9	11971.7	11651.4	11396.2	11215.2	11059.0	11026.5	11023.4	10970.8
10°	13042.1	12751.3	12257.8	11789.1	11345.1	10998.6	10754.2	10574.8	10499.0	10457.2	10395.3
12.5°	13161.2	12777.6	12157.3	11580.3	11051.2	10602.6	10310.3	10068.9	9969.9	9881.8	9867.8
15°	13394.8	12890.5	12050.5	11297.2	10721.7	10160.2	9776.6	9543.0	9433.1	9321.8	9259.9
17.5°	13759.9	13111.7	11988.7	11021.8	10304.1	9683.8	9201.1	8959.8	8768.0	8675.2	8636.5
20°	14225.5	13455.2	12002.6	10758.9	9843.1	9159.3	8557.6	8271.4	8028.5	7977.5	7907.9
22.5°	14954.1	13967.2	12115.5	10529.9	9427.0	8573.1	7909.4	7467.0	7173.1	7129.8	7126.7
25°	15958.1	14702.0	12291.9	10297.9	8896.4	7945.0	7143.7	6591.4	6289.8	6180.0	6186.2
27.5°	17308.5	15781.7	12638.4	10089.0	8320.9	7089.6	6162.9	5654.0	5346.2	5248.7	5214.7
30°	18914.3	17064.1	13162.8	9866.3	7638.7	6051.6	5179.1	4746.0	4431.9	4332.9	4322.1
32.5°	20899.0	18703.9	13841.9	9583.2	6859.1	5030.6	4340.7	3947.8	3633.7	3421.8	3465.1
35°	23160.6	20566.4	14652.5	9315.6	5932.5	4255.6	3684.8	3205.2	2886.6	2769.0	2765.9
37.5°	25231.9	22261.8	15470.8	8996.9	5103.3	3703.3	2987.1	2636.0	2422.5	2315.7	2329.7
40°	27261.5	24000.5	16143.7	8501.9	4241.7	3083.0	2356.0	2232.2	2173.4	2120.8	2123.9
42.5°	29309.6	25686.7	16610.9	7776.4	3590.4	2496.7	2012.5	2103.8	2167.2	2150.2	2131.7
45°	31362.4	27355.8	16921.8	6758.5	2990.2	2085.3	1960.0	2110.0	2212.1	2230.7	2212.1
47.5°	33671.9	28950.7	16954.3	5417.3	2547.8	2023.4	1984.7	2072.9	2241.5	2286.4	2257.0
50°	36021.7	30471.3	16586.1	4125.6	2363.7	2072.9	2037.3	2026.5	2192.0	2239.9	2221.4
52.5°	37986.3	31797.0	15730.7	3264.0	2309.6	2136.3	2137.9	2028.0	2114.6	2171.9	2198.2
55°	40029.8	33413.6	14254.9	2857.2	2315.7	2164.1	2222.9	2076.0	2082.2	2066.7	2094.5
57.5°	41736.0	34606.3	12519.3	2713.3	2320.4	2192.0	2210.6	2106.9	2108.5	2024.9	1980.1
60°	43283.0	35783.5	10430.9	2580.3	2309.6	2196.6	2159.5	2139.4	2113.1	2038.8	1994.0
62.5°	44441.6	36436.3	8225.0	2475.1	2275.5	2170.3	2077.5	2103.8	2059.0	1984.7	1987.8
65°	44924.3	36258.4	6186.2	2346.7	2221.4	2136.3	2017.2	2004.8	1969.2	1890.3	1896.5
67.5°	43957.4	34439.2	4500.0	2151.8	2136.3	2080.6	1956.9	1907.4	1857.9	1803.7	1828.5
70°	41114.2	31037.5	3151.1	1867.1	1998.6	1990.9	1907.4	1851.7	1777.4	1693.9	1709.4
72.5°	36495.1	26803.6	2153.3	1548.5	1751.1	1864.0	1822.3	1769.7	1633.6	1410.8	1375.2
75°	30511.6	21395.5	1584.1	1222.1	1418.5	1655.2	1608.8	1554.7	1531.5	1845.5	1839.3
77.5°	23691.2	14649.4	1260.7	977.7	1147.8	1212.8	1396.9	1533.0	2308.0	1992.4	1921.3
80°	14460.7	8661.2	1019.4	725.5	764.2	850.8	1188.0	1888.8	2175.0	1325.7	1248.4
82.5°	7248.9	4216.9	802.9	491.9	529.0	478.0	852.4	2181.2	1534.5	758.0	706.9
85°	2608.1	1335.0	363.5	238.2	235.1	145.4	481.1	1698.5	986.9	567.7	533.7
87.5°	669.8	244.4	49.5	29.4	20.1	18.6	120.7	846.2	430.0	275.4	225.9
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)