

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: P622544

Luminaire Tested: **PRV-M-C275-D-U-T3-BZ-7050**

Issue Date: 9/29/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P622544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-3)  
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-T3-BZ-7050  
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

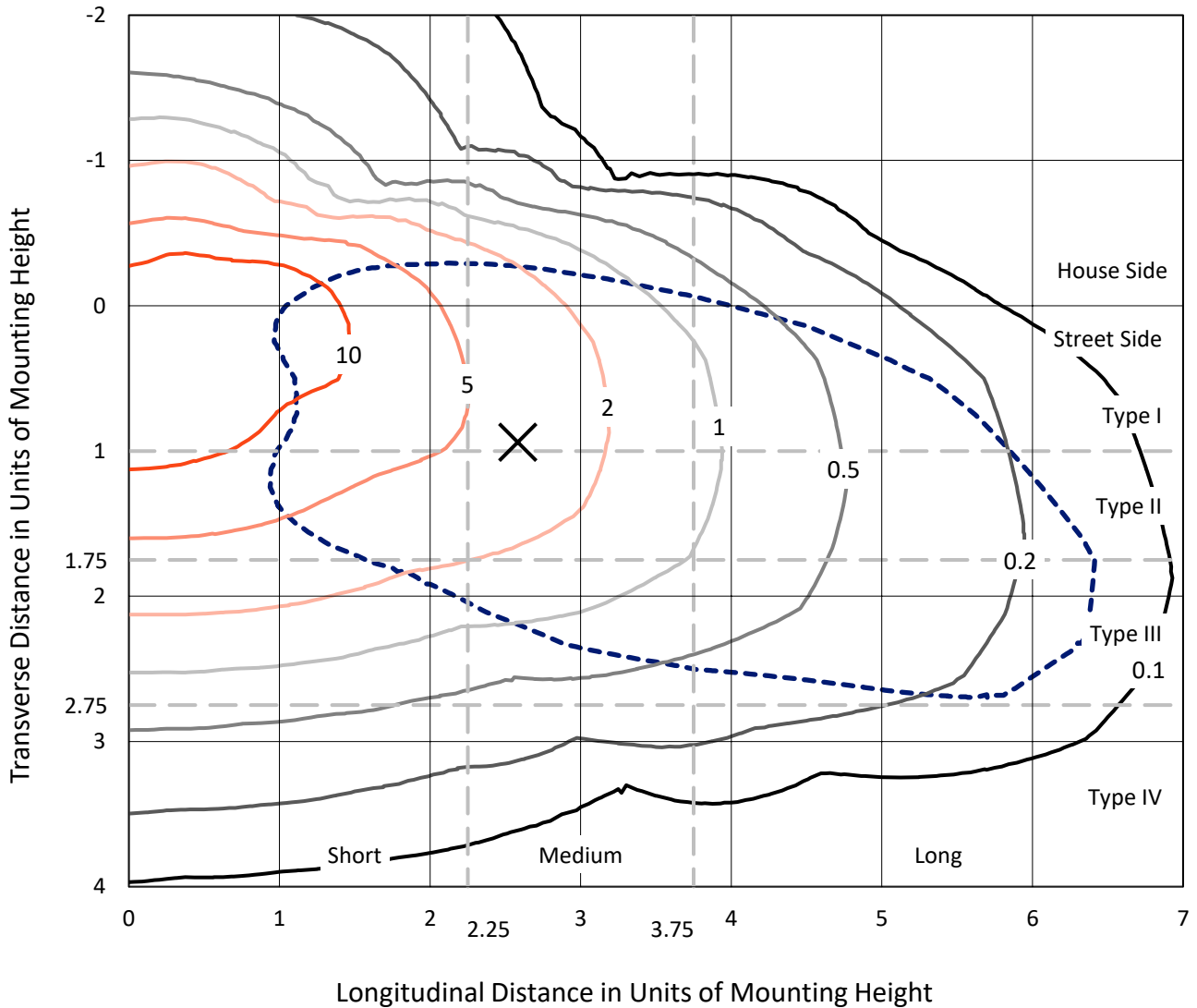
Lumens per Lamp: N/A  
Luminaire Lumens: 80477 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 587.5  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P622544  
 CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050

### Iso-Footcandle Lines of Horizontal Illumination

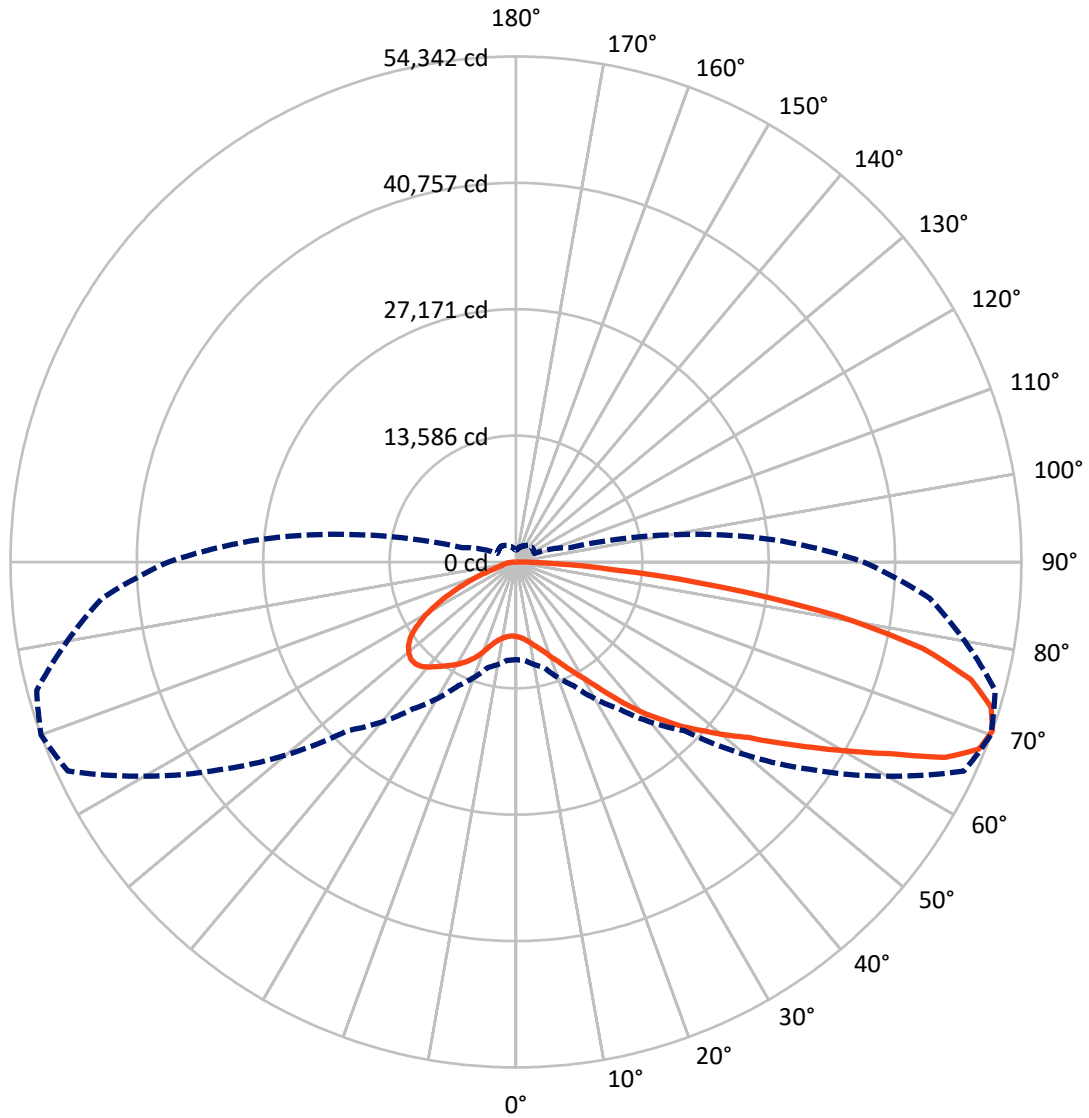
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P622544  
CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P622544  
 CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050

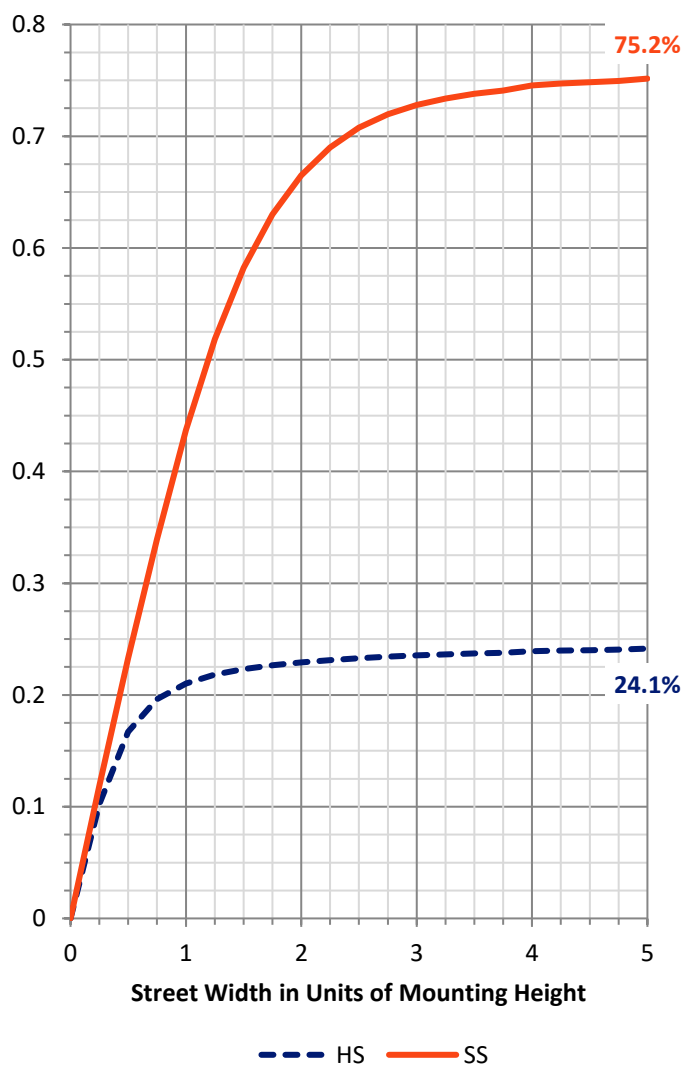
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19809.9	0.0	19809.9
	% Fixture	24.6	0.0	24.6
<b>Street Side</b>	Lumens	60667.1	0.0	60667.1
	% Fixture	75.4	0.0	75.4
<b>Total</b>	Lumens	80477.0	0.0	80477.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	785.2	1.0
10°-20°	2540.1	3.2
20°-30°	4797.4	6.0
30°-40°	8014.7	10.0
40°-50°	12240.0	15.2
50°-60°	16309.2	20.3
60°-70°	18820.2	23.4
70°-80°	14050.1	17.5
80°-90°	2920.1	3.6
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°	80477.0	100.0
0°-180°	80477.0	100.0

**Coefficient of Utilization**

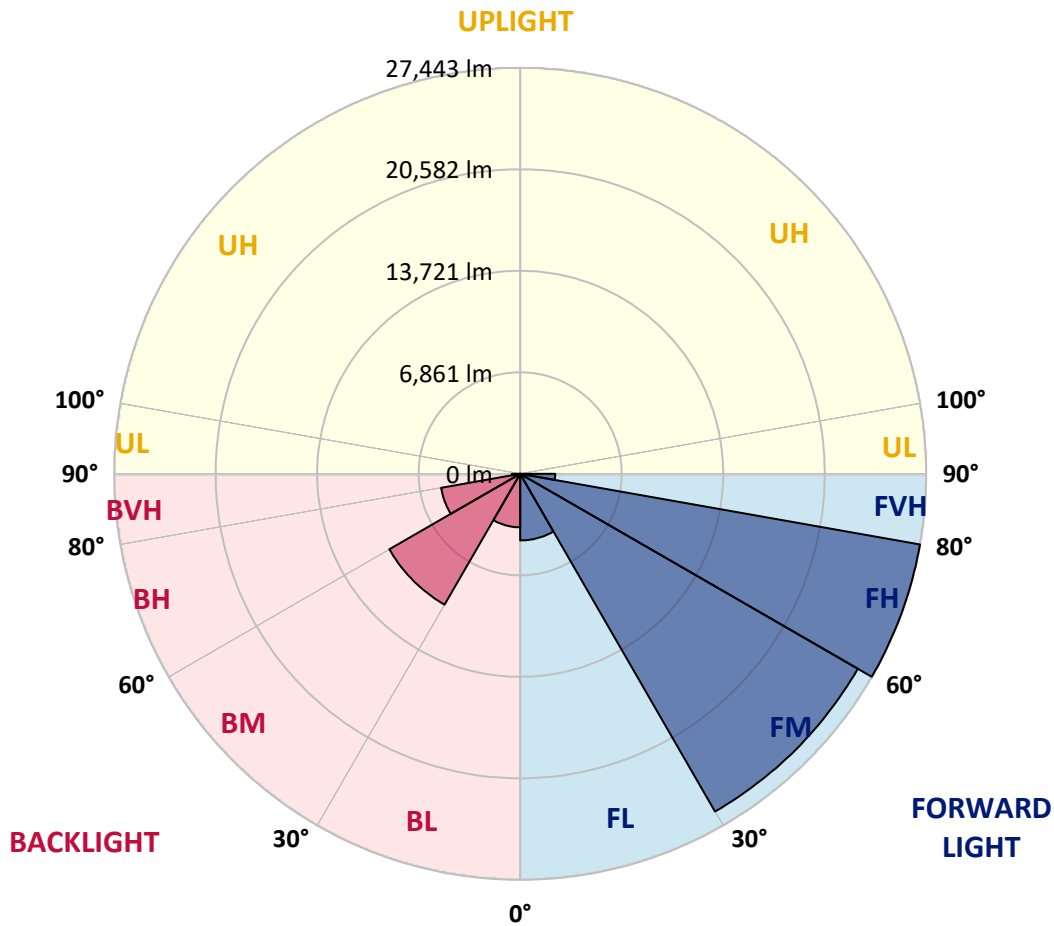


REPORT NUMBER: P622544  
 CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4505.0	5.6			
FM (30°-60°)	26351.9	32.7			
FH (60°-80°)	27442.8	34.1			G5
FVH (80°-90°)	2367.4	2.9			G5
BL (0°-30°)	3617.7	4.5	B4/5000		
BM (30°-60°)	10212.1	12.7	B5		
BH (60°-80°)	5427.5	6.7	B5		G5
BVH (80°-90°)	552.7	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type III Medium





REPORT NUMBER: P622544

CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9
2.5°	8246.3	8262.3	8299.2	8241.5	8244.7	8177.3	8169.3	8150.0	8100.3	8087.5	8076.2
5°	8544.7	8581.6	8584.8	8544.7	8525.4	8416.3	8400.3	8358.6	8280.0	8244.7	8204.6
7.5°	8785.3	8819.0	8855.9	8825.4	8814.2	8721.2	8698.7	8620.1	8530.2	8478.9	8405.1
10°	8963.4	9018.0	9048.4	9058.1	9099.8	9027.6	9018.0	8960.2	8873.6	8786.9	8711.5
12.5°	9101.4	9155.9	9208.9	9258.6	9354.9	9358.1	9377.3	9350.1	9273.1	9178.4	9061.3
15°	9215.3	9261.8	9362.9	9468.8	9618.0	9680.6	9792.9	9783.2	9720.7	9618.0	9492.8
17.5°	9415.8	9481.6	9569.9	9701.4	9885.9	10012.7	10245.3	10317.5	10230.8	10197.2	10044.7
20°	9759.2	9791.3	9874.7	9985.4	10192.3	10441.0	10766.7	10957.6	10912.7	10880.6	10712.1
22.5°	10165.1	10197.2	10219.6	10325.5	10567.8	10936.7	11386.0	11661.9	11609.0	11621.8	11514.3
25°	10611.1	10656.0	10636.7	10729.8	11018.6	11413.2	12014.9	12449.6	12517.0	12557.1	12642.2
27.5°	11240.0	11299.3	11254.4	11283.3	11527.1	12021.3	12722.4	13327.2	13482.8	13551.8	14110.1
30°	12382.3	12441.6	12347.0	12059.8	12176.9	12701.5	13521.3	14331.5	14591.4	14936.4	15740.1
32.5°	14068.4	14063.6	13856.6	13351.3	13078.5	13466.8	14379.7	15465.8	15956.7	16681.9	17620.4
35°	15751.4	15659.9	15491.5	15008.5	14469.5	14355.6	15286.1	16669.0	17678.2	18810.8	19767.0
37.5°	17288.3	17299.5	17180.8	16797.4	16171.7	15690.4	16296.8	18032.7	19540.8	21095.4	21815.7
40°	18685.7	18709.7	18648.8	18363.2	17931.6	17360.5	17387.8	19460.6	21459.6	23290.1	23883.7
42.5°	19698.0	19844.0	20041.3	19755.8	19617.8	19090.0	18716.2	20760.1	23237.2	25255.4	25662.9
45°	20604.5	20622.1	20790.6	20926.9	21113.0	20920.5	20341.4	22223.2	25276.3	27222.3	27474.2
47.5°	21267.1	21214.1	21409.8	21889.5	22534.5	22584.2	22176.7	23939.9	27108.4	29036.9	29091.4
50°	21615.2	21629.6	22082.1	22794.4	23899.8	24243.1	24180.5	26065.6	29221.3	30913.9	30695.7
52.5°	21876.7	21992.2	22632.3	23601.4	25127.1	25853.9	26072.0	28642.2	31337.5	32903.3	32519.9
55°	22011.5	22194.4	22901.9	24166.1	26068.8	27374.8	27872.1	31592.6	34326.3	35402.8	34239.7
57.5°	21318.4	21504.5	22601.9	24289.6	26739.4	28505.8	29948.1	35016.2	37610.4	38094.9	36479.4
60°	19734.9	19922.6	21536.6	23975.2	26859.8	29548.6	32261.6	39089.6	41316.4	41223.4	38298.7
62.5°	18170.7	18226.8	19855.2	22860.2	26378.5	30004.3	34820.5	43565.7	45404.3	44921.4	40329.8
65°	16057.8	16182.9	17830.6	20747.3	25029.2	29726.7	36877.2	48061.0	50664.9	49257.9	42405.8
67.5°	13561.4	13762.0	15220.3	18170.7	22563.4	28441.6	38279.4	51797.5	53692.3	52542.0	44050.2
70°	10497.2	10614.3	11756.6	14670.0	19264.8	25638.9	38974.1	53156.4	54342.0	53339.3	44645.4
72.5°	7469.8	7378.3	8117.9	10131.4	14541.7	21485.2	38159.1	52862.8	53432.4	52214.7	43204.7
75°	5106.6	4896.4	5498.1	6561.7	8551.1	15284.5	34076.1	50276.6	50510.9	48917.8	39680.0
77.5°	2685.7	2717.7	3056.3	4087.8	5538.2	7262.8	24430.8	44252.4	44743.3	43756.6	33549.8
80°	580.8	632.1	2092.1	2562.1	3285.7	4301.2	10887.0	33322.0	35067.5	34422.6	24392.3
82.5°	385.0	407.5	1330.0	1695.8	1910.8	2177.1	3927.4	19064.3	22388.5	21527.0	13059.3
85°	229.4	243.9	503.8	664.2	986.7	956.2	1447.1	7798.7	10479.5	10134.6	4707.1
87.5°	96.3	102.7	179.7	287.2	396.3	484.5	498.9	2074.4	3219.9	3271.2	1022.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P622544

CATALOG NUMBER: PRV-M-C275-D-U-T3-BZ-7050

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9	8016.9
2.5°	8042.5	8026.5	8007.2	7944.7	7891.7	7867.7	7842.0	7801.9	7806.7	7822.7	7790.6
5°	8143.6	8108.3	8045.7	7947.9	7846.8	7777.8	7728.1	7662.3	7635.0	7631.8	7606.1
7.5°	8331.3	8286.4	8174.1	8020.1	7878.9	7771.4	7681.6	7583.7	7522.7	7506.7	7476.2
10°	8615.3	8538.3	8376.2	8170.9	7988.0	7834.0	7691.2	7535.6	7432.9	7384.8	7349.5
12.5°	8944.2	8860.7	8640.9	8403.5	8172.5	7949.5	7739.3	7509.9	7352.7	7269.2	7217.9
15°	9395.0	9268.2	9042.0	8772.5	8483.7	8177.3	7878.9	7537.2	7264.4	7104.0	7047.8
17.5°	9950.1	9805.7	9589.1	9282.7	8920.1	8488.5	8018.5	7506.7	7065.5	6826.4	6776.7
20°	10614.3	10562.9	10333.5	9937.2	9380.5	8774.1	8105.1	7420.0	6812.0	6460.7	6380.4
22.5°	11507.9	11512.7	11227.1	10537.3	9808.9	8949.0	8117.9	7229.1	6433.4	6027.5	5966.5
25°	12685.5	12682.3	11998.8	11033.0	10046.3	9006.7	8004.0	6876.2	5992.2	5538.2	5459.6
27.5°	14050.8	13814.9	12770.5	11411.6	10096.1	8894.4	7679.9	6350.0	5480.4	5044.0	4973.4
30°	15565.3	15119.2	13539.0	11689.2	10027.1	8578.4	7089.6	5774.0	5074.5	4654.2	4574.0
32.5°	17334.8	16572.8	14329.9	11843.2	9837.8	8135.6	6380.4	5470.8	4830.7	4360.6	4259.5
35°	19205.5	18303.9	15207.5	11913.8	9433.5	7386.4	5838.2	5255.8	4636.5	4110.3	4018.9
37.5°	21135.5	20046.2	16229.4	11939.5	8918.5	6447.8	5512.5	5016.8	4391.1	3924.2	3860.0
40°	23027.0	21668.1	17315.6	11931.4	8159.6	5758.0	5228.5	4703.9	4182.5	3765.4	3691.6
42.5°	24745.3	23173.0	18412.9	11823.9	7264.4	5403.4	4957.4	4496.9	4001.2	3531.1	3438.1
45°	26348.0	24544.7	19296.9	11483.8	6253.7	5069.7	4652.6	4248.3	3771.8	3290.5	3189.4
47.5°	27761.4	25868.3	19893.7	10887.0	5451.5	4734.4	4285.2	3949.9	3537.6	3078.7	2998.5
50°	29221.3	27108.4	20360.6	9893.9	4841.9	4338.1	3916.2	3616.2	3287.3	2916.7	2844.5
52.5°	30710.2	28578.0	20978.3	8344.1	4257.9	3935.4	3507.1	3181.4	2963.2	2719.3	2650.4
55°	32359.4	30089.3	21472.4	6372.4	3718.8	3560.0	3099.6	2754.6	2568.5	2427.4	2408.1
57.5°	33766.4	31356.7	20999.1	4408.7	3337.0	3183.0	2722.6	2368.0	2173.9	2143.4	2191.5
60°	35338.7	32377.1	19252.0	3325.8	3056.3	2730.6	2345.5	2060.0	1955.7	1867.4	1869.0
62.5°	37162.8	32938.6	16211.8	2818.8	2751.4	2403.3	2108.1	1907.6	1808.1	1663.7	1623.6
65°	38199.2	32722.0	12688.7	2528.4	2473.9	2292.6	2069.6	1859.4	1707.0	1509.7	1476.0
67.5°	38548.9	31021.4	9390.2	2319.9	2324.7	2302.2	2106.5	1843.4	1660.5	1434.3	1407.0
70°	37358.5	27697.2	6000.2	2202.8	2262.1	2326.3	2188.3	1902.7	1660.5	1336.4	1310.7
72.5°	34260.6	23546.8	3123.6	2031.1	2222.0	2315.1	2287.8	2024.7	1601.1	1211.3	1185.6
75°	29274.3	18469.1	1763.2	1856.2	2143.4	2291.0	2337.5	2016.6	1472.8	1030.0	994.7
77.5°	23315.8	11548.0	1413.4	1663.7	1997.4	2122.5	2271.7	2063.2	1503.3	1002.7	962.6
80°	13340.0	4471.3	1148.7	1400.6	1681.3	1949.3	2175.5	1984.6	1395.8	922.5	884.0
82.5°	5259.0	1371.7	911.3	1113.4	1370.1	1577.1	1923.6	1811.3	1270.6	678.6	633.7
85°	1378.1	567.9	624.1	765.3	959.4	1148.7	1577.1	1468.0	1031.6	526.2	495.7
87.5°	197.3	157.2	194.1	296.8	545.5	815.0	1047.6	893.6	686.7	401.1	357.8
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)