

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: P381003

Luminaire Tested: **PRV-XL-PA4B-740-U-T4W**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-PA4B-740-U-T4W  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

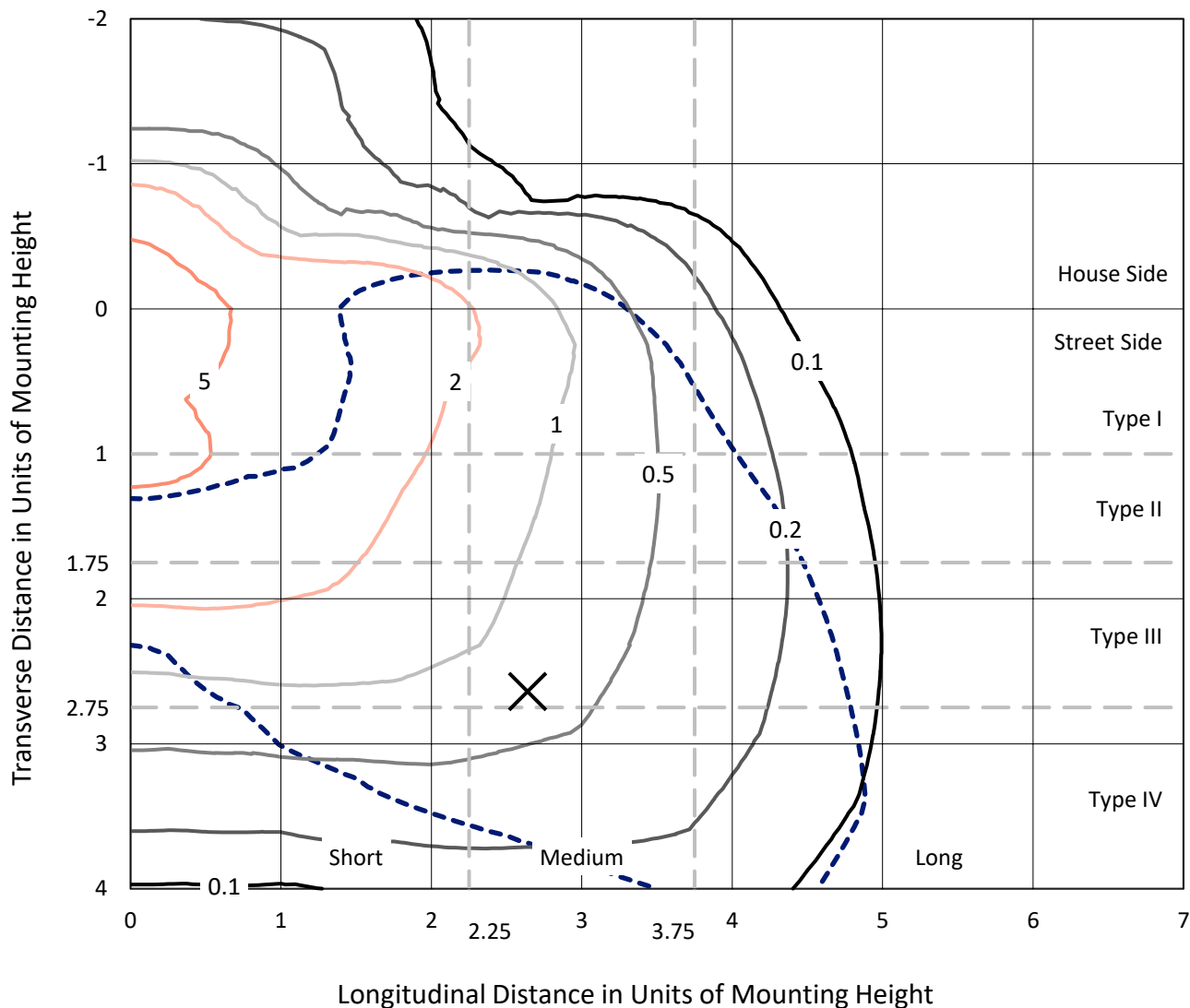
Lumens per Lamp: N/A  
Luminaire Lumens: 39057 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 303  
Input Voltage (V): NR  
Input Current (Ain): 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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

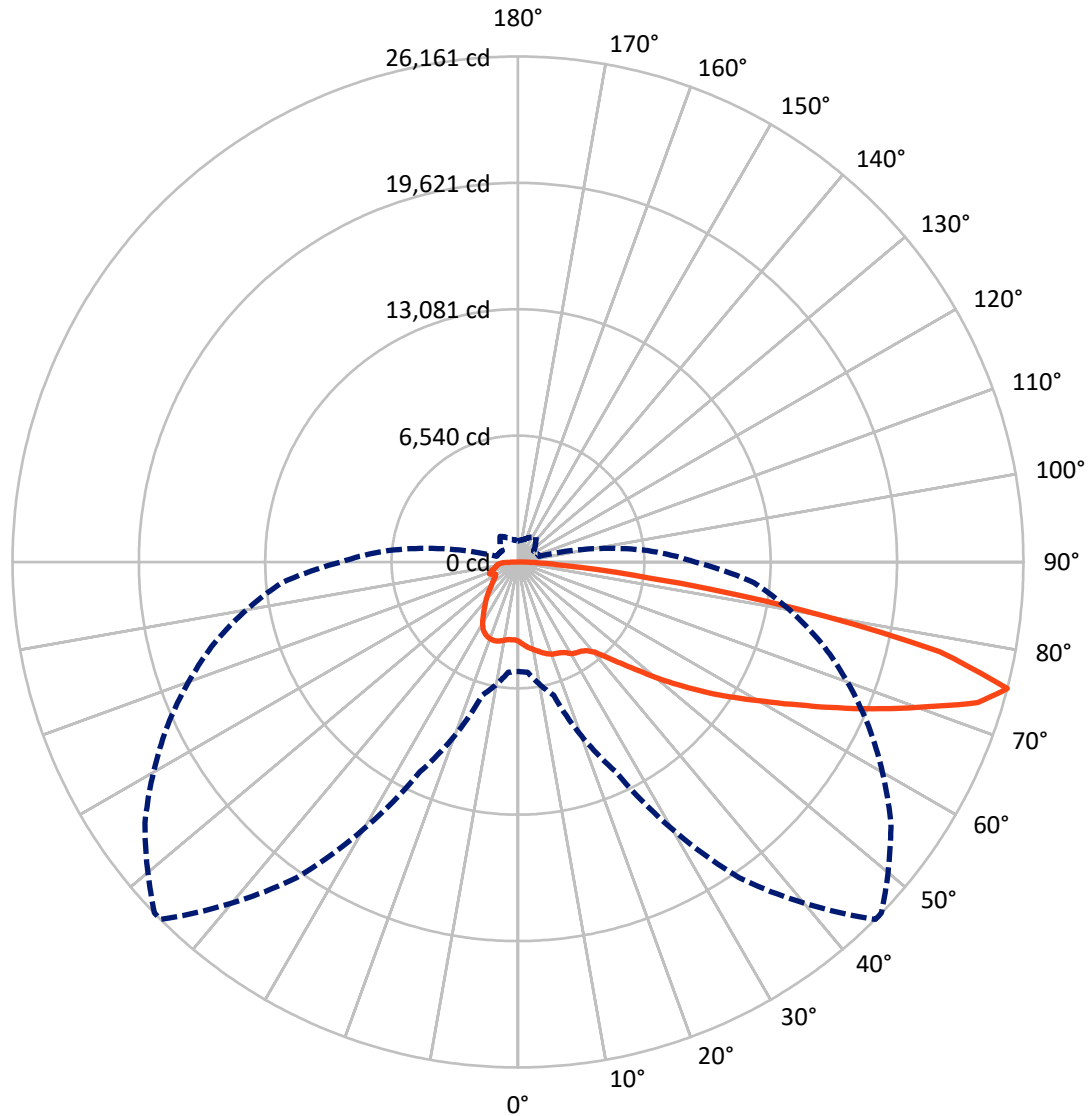
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8631.4	0.0	8631.4
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	30425.6	0.0	30425.6
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	39057.0	0.0	39057.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.8	1.0
10°-20°	1291.0	3.3
20°-30°	2200.9	5.6
30°-40°	3083.7	7.9
40°-50°	4530.4	11.6
50°-60°	7210.3	18.5
60°-70°	10256.6	26.3
70°-80°	8587.9	22.0
80°-90°	1490.4	3.8
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°	39057.0	100.0
0°-180°	39057.0	100.0

**Coefficient of Utilization**



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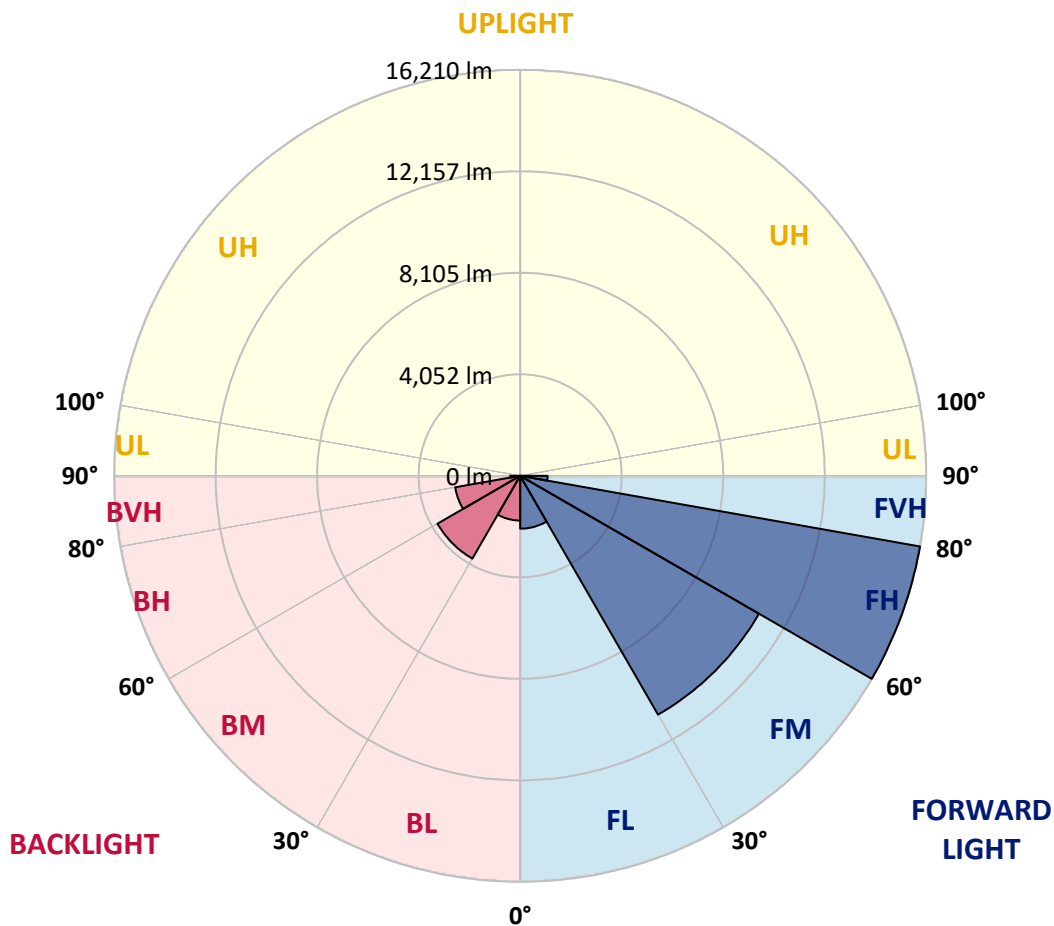
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.3	5.4			
FM (30°-60°)	11009.0	28.2			
FH (60°-80°)	16209.6	41.5			G5
FVH (80°-90°)	1095.7	2.8			G5
BL (0°-30°)	1786.4	4.6	B3/2500		
BM (30°-60°)	3815.5	9.8	B3/5000		
BH (60°-80°)	2634.8	6.7	B4/5000		G4/5000
BVH (80°-90°)	394.7	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8
2.5°	4336.7	4315.8	4305.4	4305.4	4263.6	4237.5	4232.3	4195.8	4164.5	4133.2	4107.1
5°	4587.2	4571.5	4540.2	4514.1	4456.7	4383.6	4373.2	4294.9	4216.6	4143.6	4081.0
7.5°	4816.8	4785.5	4748.9	4696.8	4602.8	4503.7	4488.0	4378.4	4268.8	4159.2	4075.7
10°	5009.9	4978.6	4926.4	4853.3	4733.3	4613.3	4597.6	4482.8	4368.0	4237.5	4117.5
12.5°	5192.5	5166.4	5088.2	4989.0	4848.1	4738.5	4722.9	4623.7	4503.7	4357.6	4201.0
15°	5349.1	5323.0	5239.5	5124.7	4962.9	4879.4	4858.5	4764.6	4644.6	4488.0	4326.2
17.5°	5427.4	5427.4	5338.7	5213.4	5062.1	4999.4	4983.8	4869.0	4759.4	4608.0	4446.3
20°	5453.5	5463.9	5401.3	5249.9	5119.5	5093.4	5077.7	4983.8	4858.5	4712.4	4561.1
22.5°	5469.1	5490.0	5437.8	5265.6	5156.0	5140.3	5129.9	5067.3	4968.1	4827.2	4675.9
25°	5521.3	5521.3	5484.8	5291.7	5203.0	5197.8	5197.8	5161.2	5093.4	4973.4	4822.0
27.5°	5599.6	5594.4	5547.4	5349.1	5307.3	5323.0	5317.8	5312.6	5265.6	5145.6	4983.8
30°	5730.1	5730.1	5677.9	5463.9	5437.8	5505.6	5510.9	5521.3	5448.2	5260.4	5129.9
32.5°	5928.4	5907.5	5855.3	5578.7	5537.0	5599.6	5610.0	5604.8	5542.2	5364.7	5302.1
35°	6538.9	6492.0	6304.1	5834.4	5625.7	5662.2	5667.4	5693.5	5704.0	5563.1	5531.7
37.5°	7608.8	7546.1	7259.1	6439.8	5907.5	5818.8	5813.5	5881.4	5938.8	5813.5	5813.5
40°	8772.5	8720.3	8553.3	7483.5	6429.3	6137.1	6116.2	6178.9	6251.9	6163.2	6189.3
42.5°	9774.5	9816.2	9831.9	8589.9	7212.1	6732.0	6674.6	6585.9	6700.7	6622.4	6726.8
45°	10526.0	10505.1	10792.1	9722.3	8224.6	7478.3	7400.0	7160.0	7306.1	7300.9	7530.5
47.5°	11324.4	11287.9	11407.9	10786.9	9377.9	8391.5	8271.5	7916.7	8135.8	8287.2	8668.1
50°	12081.1	12091.6	12133.3	11627.1	10630.3	9503.1	9351.8	8876.9	9190.0	9508.3	10045.9
52.5°	13067.4	12994.4	12942.2	12608.2	12034.2	10661.7	10562.5	10019.8	10458.1	10833.9	11548.8
55°	13928.5	13881.5	13850.2	13834.6	13208.3	11940.2	11835.8	11272.2	11903.7	12169.8	13224.0
57.5°	14847.0	14820.9	14987.9	15254.0	15003.5	13239.7	13130.1	12587.3	13291.8	13479.7	15040.1
60°	15520.2	15535.8	15995.1	16673.5	16501.3	14648.7	14518.2	14038.1	14643.5	14810.5	16856.2
62.5°	15525.4	15682.0	16746.6	17962.5	18160.8	16271.7	16120.3	15598.5	16031.6	16031.6	18484.4
65°	14043.3	14220.8	16610.9	18280.8	19841.2	18202.6	18056.4	17237.1	17398.9	17179.7	20013.4
67.5°	12566.5	12775.2	15024.4	18306.9	21020.6	20269.1	20096.9	18875.8	18599.2	18046.0	21083.2
70°	11585.3	11731.5	13610.2	17967.7	21730.4	22429.7	22299.2	20430.9	19543.8	18771.4	20858.8
72.5°	9753.6	9701.4	11496.6	16355.2	22127.0	24882.4	24772.8	22121.8	20363.1	18427.0	17790.3
75°	5662.2	5724.8	7133.9	11982.0	19945.6	26161.0	26150.5	23567.3	20003.0	16276.9	12258.6
77.5°	1633.4	1680.4	2343.2	5265.6	12613.4	22314.8	23029.8	21552.9	16908.3	11601.0	6356.3
80°	715.0	751.5	1017.6	1753.5	5432.6	14575.6	15201.9	14575.6	10197.2	5323.0	2494.5
82.5°	422.7	448.8	662.8	1085.5	2604.1	6935.6	7781.0	6794.7	4399.3	2259.7	1033.3
85°	240.1	250.5	381.0	688.9	1638.6	2426.7	2724.1	2551.9	2144.9	1283.8	542.7
87.5°	109.6	114.8	187.9	323.6	918.5	819.3	850.6	1127.2	1242.0	782.8	271.4
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°	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8	4101.8
2.5°	4096.6	4081.0	4049.7	4039.2	4023.6	4028.8	4034.0	4034.0	4039.2	4023.6	4023.6
5°	4054.9	4028.8	3997.5	3997.5	3997.5	4039.2	4075.7	4096.6	4107.1	4107.1	4096.6
7.5°	4039.2	4007.9	3971.4	3981.8	3992.2	4044.4	4112.3	4180.1	4201.0	4201.0	4190.6
10°	4070.5	4039.2	4013.1	4028.8	4054.9	4096.6	4148.8	4211.4	4263.6	4268.8	4263.6
12.5°	4143.6	4107.1	4081.0	4112.3	4143.6	4169.7	4195.8	4221.9	4289.7	4300.1	4300.1
15°	4263.6	4227.1	4195.8	4221.9	4232.3	4232.3	4232.3	4232.3	4300.1	4310.6	4310.6
17.5°	4383.6	4352.3	4321.0	4326.2	4294.9	4253.2	4237.5	4232.3	4268.8	4300.1	4305.4
20°	4498.5	4472.4	4441.1	4388.9	4310.6	4232.3	4206.2	4206.2	4227.1	4274.1	4274.1
22.5°	4623.7	4592.4	4540.2	4420.2	4289.7	4180.1	4154.0	4169.7	4195.8	4258.4	4253.2
25°	4764.6	4722.9	4634.1	4409.7	4221.9	4091.4	4096.6	4143.6	4190.6	4258.4	4258.4
27.5°	4921.2	4863.8	4686.3	4326.2	4070.5	3945.3	3992.2	4101.8	4169.7	4242.7	4253.2
30°	5093.4	5041.2	4728.1	4180.1	3825.3	3710.4	3825.3	4002.7	4107.1	4174.9	4190.6
32.5°	5302.1	5260.4	4764.6	3992.2	3506.9	3407.8	3574.8	3793.9	3960.9	4039.2	4054.9
35°	5563.1	5521.3	4811.6	3778.3	3209.5	3105.1	3256.4	3480.8	3700.0	3799.2	3830.5
37.5°	5902.3	5839.6	4853.3	3548.7	2959.0	2838.9	2912.0	3115.5	3313.8	3449.5	3486.0
40°	6335.4	6236.3	4889.9	3287.7	2739.8	2604.1	2630.2	2729.3	2844.2	2964.2	3011.1
42.5°	6946.0	6747.7	4895.1	3011.1	2515.4	2390.1	2379.7	2411.0	2411.0	2411.0	2426.7
45°	7796.6	7420.9	4905.5	2750.2	2285.8	2155.3	2124.0	2113.5	2035.3	1883.9	1873.5
47.5°	8871.7	8302.8	4952.5	2531.0	2045.7	1930.9	1889.1	1847.4	1701.3	1544.7	1513.4
50°	10249.4	9325.7	5046.4	2322.3	1842.2	1763.9	1711.7	1612.6	1450.8	1330.7	1299.4
52.5°	11835.8	10541.6	5135.1	2103.1	1690.8	1638.6	1576.0	1456.0	1283.8	1210.7	1200.3
55°	13657.1	11898.5	5312.6	1910.0	1560.4	1523.8	1466.4	1351.6	1221.2	1169.0	1163.8
57.5°	15520.2	13417.1	5563.1	1737.8	1435.1	1414.2	1414.2	1315.1	1231.6	1210.7	1210.7
60°	17315.4	14721.7	5370.0	1576.0	1320.3	1330.7	1429.9	1403.8	1341.2	1367.3	1382.9
62.5°	18708.8	15488.9	4357.6	1445.6	1236.8	1330.7	1586.5	1586.5	1513.4	1503.0	1503.0
65°	19303.7	15478.4	3063.3	1346.4	1205.5	1461.2	1769.1	1685.6	1492.5	1419.5	1403.8
67.5°	19152.4	14800.0	2113.5	1278.6	1195.1	1596.9	1852.6	1617.8	1398.6	1336.0	1289.0
70°	17821.6	13364.9	1628.2	1215.9	1179.4	1539.5	1826.5	1539.5	1325.5	1268.1	1226.4
72.5°	14377.3	10719.1	1351.6	1153.3	1116.8	1424.7	1737.8	1466.4	1268.1	1205.5	1163.8
75°	9169.1	6742.5	1142.9	1069.8	996.8	1278.6	1617.8	1393.4	1205.5	1122.0	1090.7
77.5°	4409.7	2906.8	996.8	970.7	897.6	1184.6	1497.7	1299.4	1122.0	1054.2	1033.3
80°	1784.8	1330.7	866.3	871.5	824.5	1127.2	1414.2	1210.7	1038.5	965.4	928.9
82.5°	928.9	772.4	730.6	751.5	751.5	1075.0	1351.6	1137.7	965.4	934.1	814.1
85°	501.0	480.1	563.6	605.4	652.3	970.7	1257.7	1059.4	881.9	756.7	730.6
87.5°	245.3	313.1	318.3	365.3	454.0	777.6	1059.4	887.2	735.8	610.6	600.1
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)