

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: P622687

Luminaire Tested: **PRV-M-PA6B-740-U-T3-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-11)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6B-740-U-T3-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38121 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

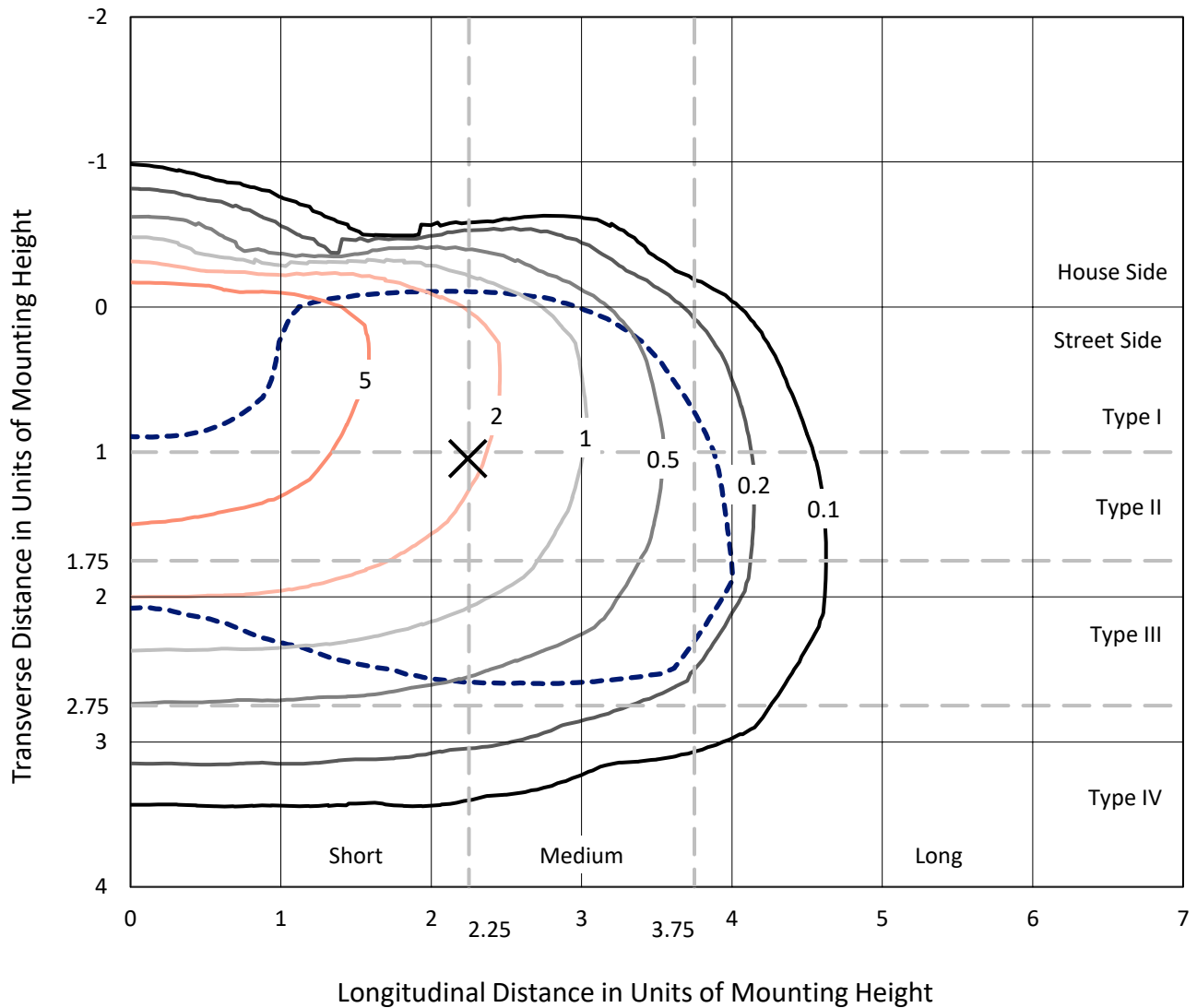
Input Watts (W): 365.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

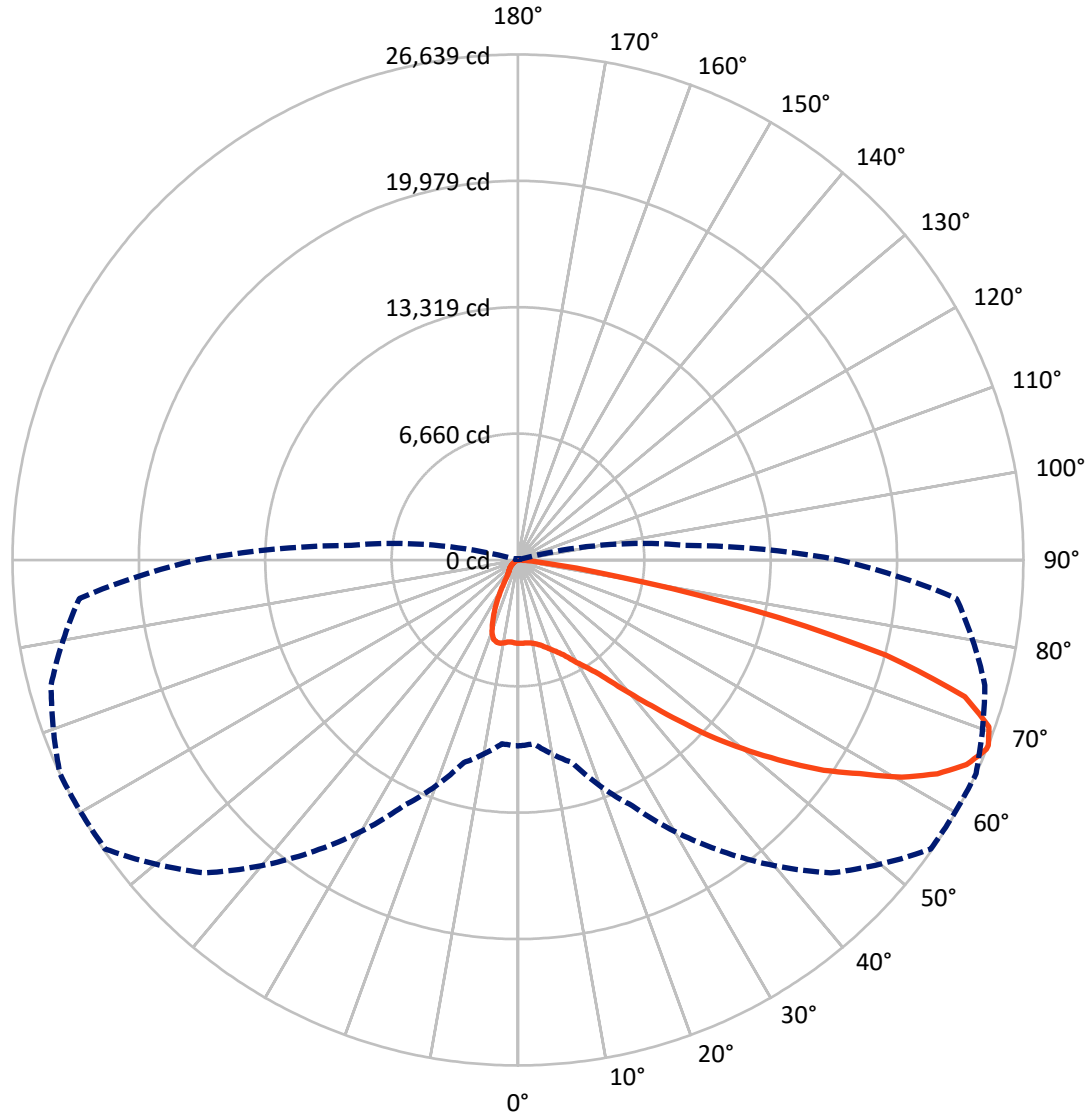
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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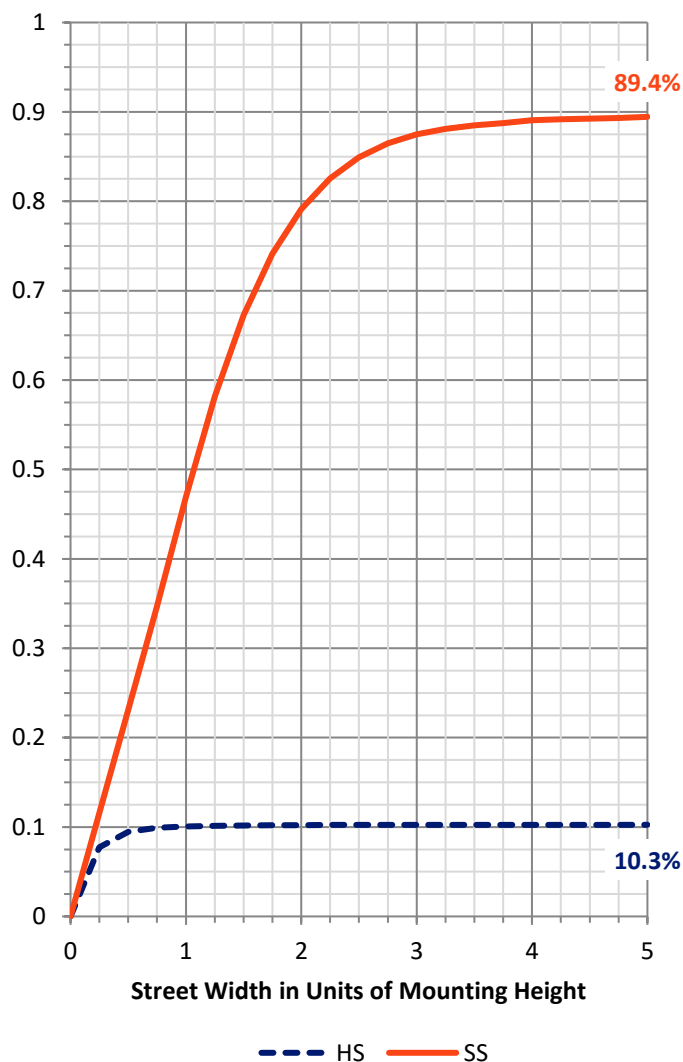
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3944.1	0.0	3944.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	34176.9	0.0	34176.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	38121.0	0.0	38121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.2	1.1
10°-20°	1076.1	2.8
20°-30°	1703.4	4.5
30°-40°	2973.9	7.8
40°-50°	5770.0	15.1
50°-60°	9351.2	24.5
60°-70°	10869.6	28.5
70°-80°	5643.3	14.8
80°-90°	324.3	0.9
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°	38121.0	100.0
0°-180°	38121.0	100.0

Coefficient of Utilization



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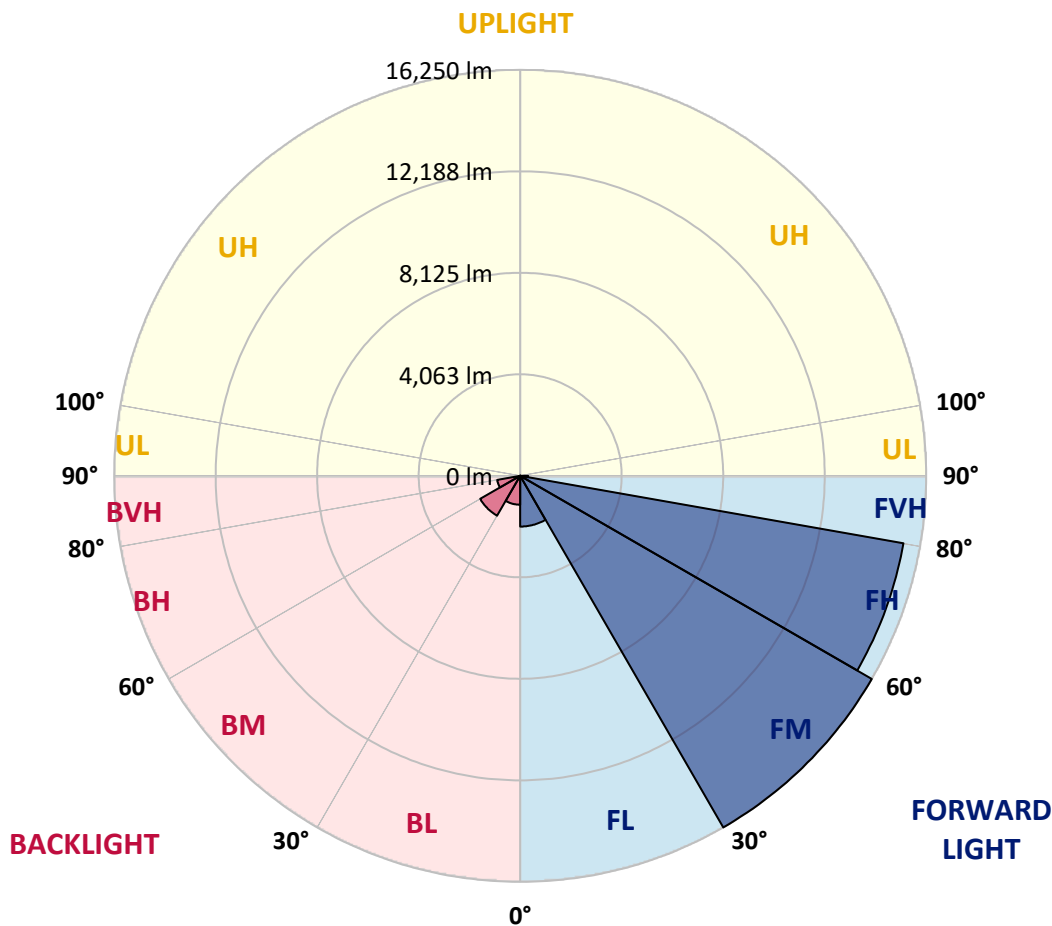
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2031.2	5.3			
FM (30°-60°)	16250.2	42.6			
FH (60°-80°)	15578.2	40.9			G5
FVH (80°-90°)	317.4	0.8			G3/500
BL (0°-30°)	1157.6	3.0	B3/2500		
BM (30°-60°)	1844.9	4.8	B2/2500		
BH (60°-80°)	934.6	2.5	B2/1000		G2/1000
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4393.6	4393.6	4393.6	4393.6	4393.6	4393.6	4393.6	4393.6	4393.6	4393.6	4393.6
2.5°	4446.7	4408.8	4411.3	4407.5	4393.6	4403.7	4397.4	4394.9	4384.8	4381.0	4379.7
5°	4370.9	4335.5	4346.8	4357.0	4357.0	4382.2	4387.3	4389.8	4378.4	4372.1	4364.5
7.5°	4252.0	4223.0	4241.9	4277.3	4302.6	4359.5	4389.8	4412.6	4410.0	4411.3	4402.5
10°	4153.5	4125.6	4162.3	4215.4	4267.2	4350.6	4410.0	4466.9	4499.8	4522.5	4520.0
12.5°	4120.6	4096.6	4130.7	4193.9	4260.9	4358.2	4448.0	4551.6	4630.0	4675.5	4669.2
15°	4125.6	4100.4	4134.5	4202.8	4276.1	4389.8	4521.3	4681.8	4798.1	4839.8	4847.4
17.5°	4166.1	4135.8	4162.3	4225.5	4312.7	4458.1	4642.6	4843.6	4990.2	5045.8	5044.6
20°	4220.4	4186.3	4210.3	4267.2	4369.6	4564.3	4796.8	5039.5	5211.4	5267.0	5259.4
22.5°	4301.3	4263.4	4281.1	4336.7	4468.2	4714.7	4978.8	5259.4	5449.0	5503.4	5480.6
25°	4522.5	4463.1	4427.7	4436.6	4594.6	4900.5	5229.1	5526.1	5724.6	5744.8	5709.4
27.5°	5087.5	5044.6	4866.3	4693.2	4748.8	5101.4	5550.2	5899.0	6078.5	6046.9	5998.9
30°	6251.7	6088.6	5808.0	5359.3	5095.1	5316.3	5859.8	6335.1	6498.1	6424.8	6332.6
32.5°	7642.1	7449.9	7037.9	6388.2	5797.9	5681.6	6230.2	6797.7	6987.3	6845.7	6752.2
35°	9012.2	8938.9	8510.4	7720.4	6857.1	6341.4	6729.5	7398.1	7662.3	7534.6	7437.3
37.5°	10570.7	10398.8	10033.5	9119.7	8145.1	7297.0	7413.3	8288.0	8653.2	8468.7	8315.8
40°	12135.5	11947.2	11580.6	10561.9	9625.2	8641.9	8401.7	9396.5	9897.0	9660.6	9405.3
42.5°	13681.4	13659.9	13192.2	12253.1	11188.8	10312.9	9813.6	10680.7	11305.1	11035.9	10609.9
45°	15677.2	15478.8	14888.5	14045.4	13141.7	12203.8	11575.6	12287.2	13036.7	12475.5	11796.8
47.5°	16905.8	16792.0	16318.1	15791.0	15267.7	14387.9	13532.2	14059.3	14696.4	13959.5	12979.9
50°	17952.4	17817.1	17480.9	17298.9	17273.6	16764.2	15639.3	15825.1	16363.6	15507.8	14116.2
52.5°	18602.1	18475.7	18259.5	18517.4	19119.0	19246.7	17697.1	17655.3	18186.2	17052.4	15195.6
55°	18617.2	18327.8	18498.4	19246.7	20637.1	21179.3	19814.2	19558.9	19754.8	18694.3	16205.6
57.5°	17967.6	17865.2	18369.5	19572.8	21620.5	22614.0	21783.5	21242.5	21393.0	20295.8	17082.8
60°	16639.1	16653.0	17761.5	19456.5	22212.0	23756.6	23615.0	23242.2	23034.9	21788.6	17762.8
62.5°	14773.5	14868.3	16289.0	18752.5	22086.9	24350.7	25208.9	24808.2	24306.4	23034.9	18144.5
65°	12690.4	12651.2	14178.1	17263.5	20959.4	24357.0	26279.5	25990.1	25264.5	23689.6	18035.8
67.5°	10309.1	10226.9	11613.5	14882.2	19191.1	23565.7	26561.4	26627.1	25524.9	23409.0	17221.8
68°	9797.2	9723.8	11053.6	14298.2	18737.3	23319.3	26552.5	26638.5	25473.1	23197.9	16950.0
70°	7659.8	7585.2	8670.9	11578.1	16447.0	21832.8	26134.2	26331.3	24800.7	21768.4	15397.9
72.5°	4300.1	4435.3	5409.9	7841.8	12269.5	18722.2	24432.8	24630.0	22357.4	17463.2	11587.0
75°	1384.1	1368.9	2203.1	3776.8	7000.0	12666.4	20013.9	20025.3	16790.8	10577.0	6402.1
77.5°	728.1	734.4	887.3	1537.0	2842.7	5570.4	12254.3	12600.7	8696.2	4014.4	2186.7
80°	453.8	461.4	549.8	886.1	1548.4	1894.7	5356.8	5371.9	2511.5	912.6	522.0
82.5°	305.9	310.9	384.3	575.1	1030.1	774.8	1633.1	1615.4	711.6	288.2	174.4
85°	145.4	147.9	247.7	394.4	504.3	321.1	471.5	499.3	352.7	136.5	74.6
87.5°	30.3	34.1	125.1	171.9	151.7	63.2	132.7	106.2	144.1	55.6	34.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4393.6	4393.6	4393.6	4393.6	4393.6	4393.6	4393.6	4393.6	4393.6	4393.6
2.5°	4384.8	4388.6	4377.2	4357.0	4354.4	4349.4	4358.2	4355.7	4358.2	4329.2
5°	4367.1	4362.0	4340.5	4316.5	4311.5	4302.6	4306.4	4296.3	4297.6	4259.6
7.5°	4405.0	4389.8	4351.9	4302.6	4241.9	4166.1	4109.2	4048.5	4043.5	3998.0
10°	4523.8	4499.8	4431.5	4281.1	4086.5	3822.3	3578.3	3353.4	3293.9	3205.5
12.5°	4667.9	4632.5	4484.6	4174.9	3699.7	3151.1	2669.5	2423.1	2316.9	2266.3
15°	4837.3	4767.8	4474.5	3856.4	2993.1	2266.3	1825.2	1563.5	1501.6	1458.6
17.5°	5035.7	4896.7	4370.9	3248.4	2252.4	1582.5	1286.7	1210.9	1202.1	1200.8
20°	5240.5	4996.5	4081.4	2588.6	1606.5	1210.9	1152.8	1126.2	1114.8	1111.0
22.5°	5444.0	5052.1	3577.1	1961.7	1209.6	1118.6	1076.9	1039.0	1021.3	1007.4
25°	5666.4	5044.6	2984.3	1418.2	1100.9	1045.3	985.9	932.8	907.5	889.8
27.5°	5933.1	4920.7	2375.0	1121.2	1022.6	953.0	877.2	811.5	774.8	766.0
30°	6241.6	4628.7	1791.1	992.2	922.7	849.4	752.1	667.4	630.7	623.1
32.5°	6625.8	4220.4	1267.8	883.5	806.4	726.8	616.8	527.1	489.2	472.7
35°	7163.0	3743.9	968.2	781.1	690.1	592.8	479.1	410.8	377.9	371.6
37.5°	7815.2	3249.7	826.6	690.1	586.5	468.9	367.8	319.8	298.3	294.5
40°	8561.0	2749.2	738.2	605.4	489.2	364.0	285.7	247.7	238.9	237.6
42.5°	9291.6	2198.1	669.9	528.3	396.9	281.9	218.7	197.2	194.7	195.9
45°	9897.0	1625.5	602.9	457.6	314.7	217.4	173.2	159.3	163.1	165.6
47.5°	10379.8	1135.1	538.5	384.3	246.5	175.7	142.8	134.0	140.3	142.8
50°	10740.1	844.3	476.5	313.5	198.4	146.6	121.3	113.8	123.9	126.4
52.5°	10968.9	697.7	407.0	251.5	165.6	126.4	102.4	96.1	108.7	112.5
55°	11091.5	604.2	345.1	206.0	142.8	108.7	86.0	82.2	96.1	99.9
57.5°	11068.7	524.6	288.2	173.2	127.7	96.1	72.0	69.5	84.7	89.7
60°	10862.7	450.0	236.4	145.4	113.8	84.7	61.9	59.4	75.8	79.6
62.5°	10497.4	371.6	190.9	123.9	102.4	75.8	53.1	50.6	64.5	68.3
65°	9880.6	288.2	149.2	107.4	92.3	67.0	45.5	39.2	51.8	54.4
67.5°	9036.2	221.2	120.1	92.3	83.4	60.7	37.9	30.3	39.2	41.7
68°	8827.7	209.8	115.0	88.5	80.9	59.4	36.7	29.1	37.9	39.2
70°	7776.0	173.2	97.3	77.1	73.3	53.1	31.6	22.8	29.1	30.3
72.5°	5316.3	137.8	79.6	64.5	60.7	45.5	25.3	16.4	21.5	21.5
75°	1750.6	104.9	61.9	46.8	44.2	34.1	17.7	11.4	13.9	13.9
77.5°	384.3	69.5	40.4	29.1	26.5	21.5	11.4	5.1	7.6	7.6
80°	121.3	35.4	22.8	16.4	15.2	11.4	6.3	1.3	1.3	2.5
82.5°	46.8	17.7	16.4	12.6	10.1	7.6	3.8	0.0	0.0	0.0
85°	24.0	12.6	12.6	10.1	7.6	5.1	2.5	0.0	0.0	0.0
87.5°	13.9	11.4	11.4	8.8	6.3	2.5	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)