

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: P622849

Luminaire Tested: **PRV-M-PA6D-740-U-T3-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622849
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-PA6D-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: 49212 lumens
Efficiency: N/A
Efficacy: 90.5 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

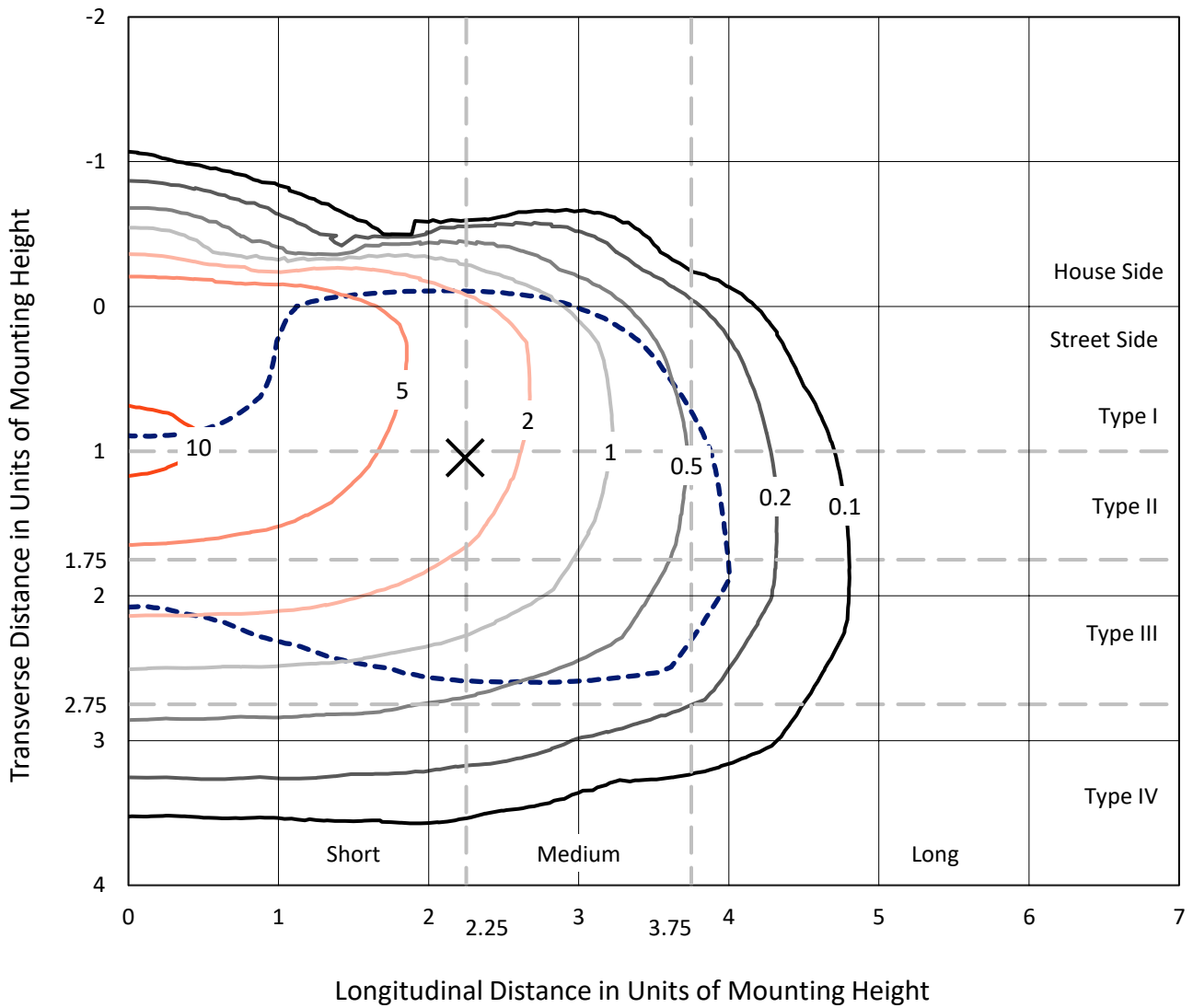
Input Watts (W): 544
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

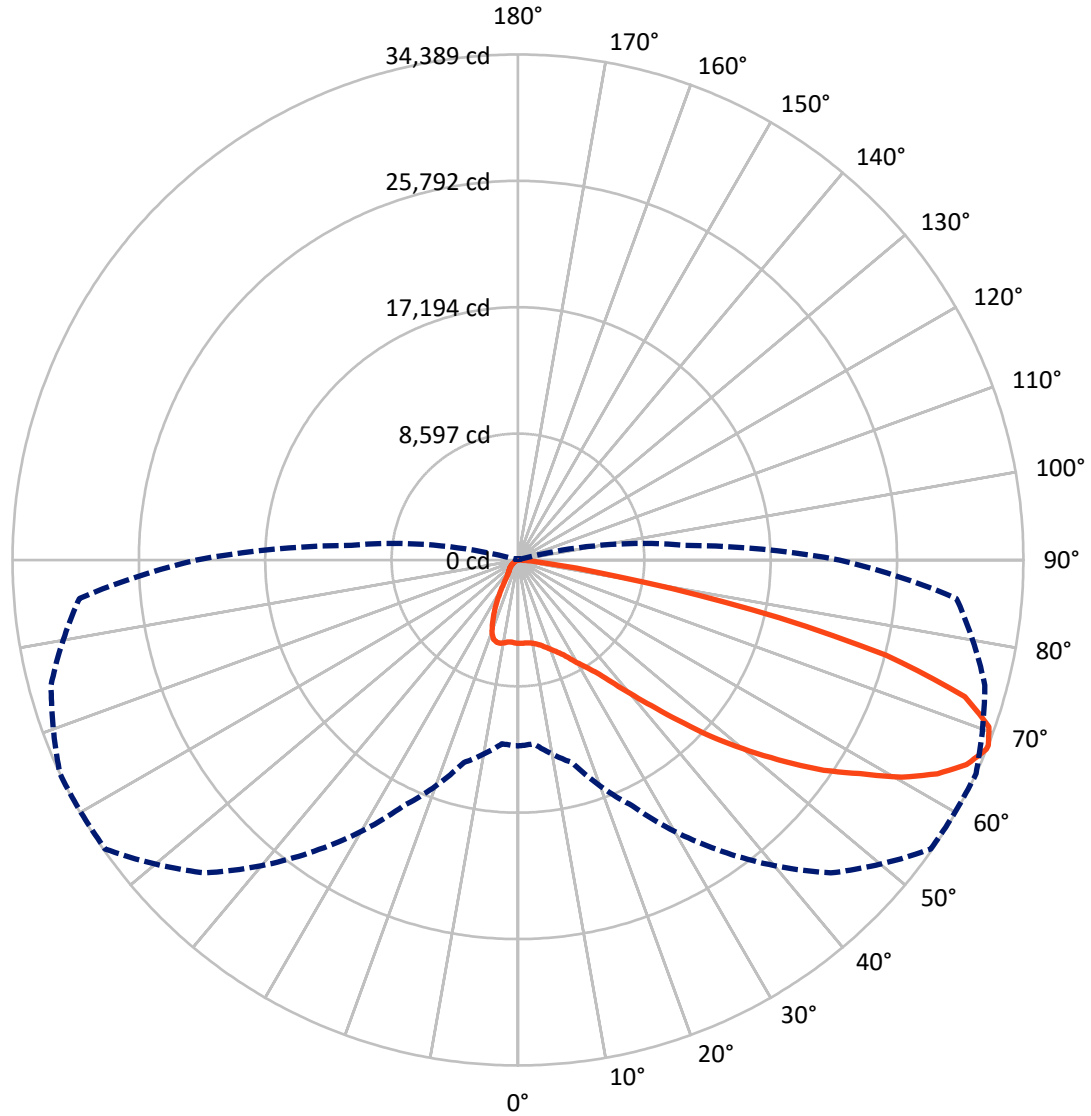
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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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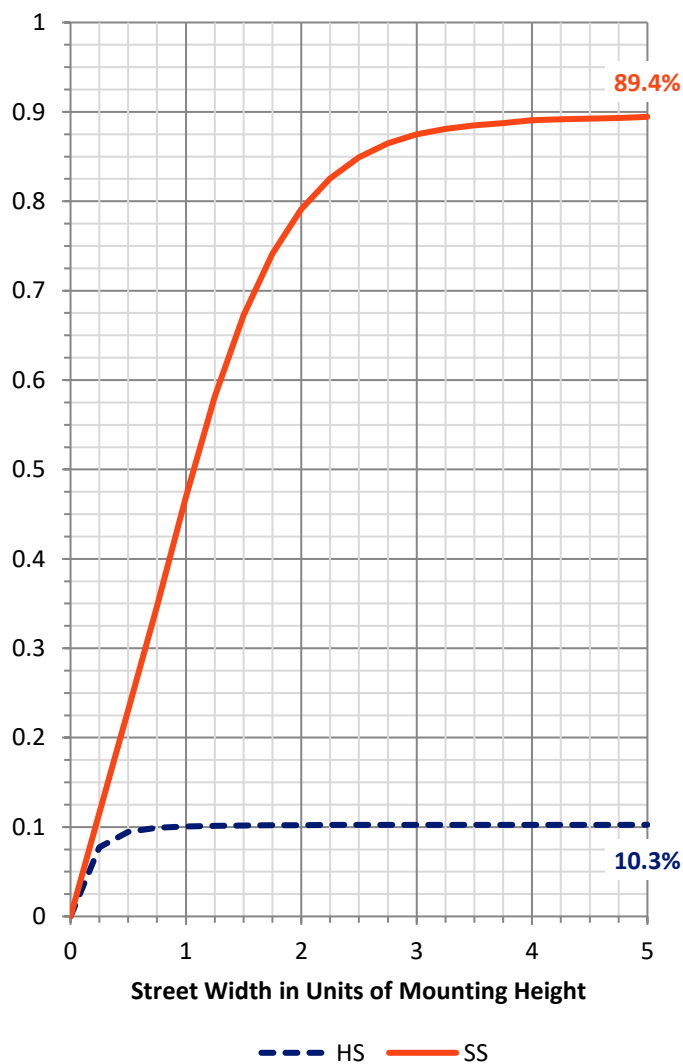
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5091.6	0.0	5091.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	44120.4	0.0	44120.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	49212.0	0.0	49212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.3	1.1
10°-20°	1389.2	2.8
20°-30°	2199.0	4.5
30°-40°	3839.2	7.8
40°-50°	7448.8	15.1
50°-60°	12071.8	24.5
60°-70°	14032.0	28.5
70°-80°	7285.1	14.8
80°-90°	418.6	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°	49212.0	100.0
0°-180°	49212.0	100.0

Coefficient of Utilization



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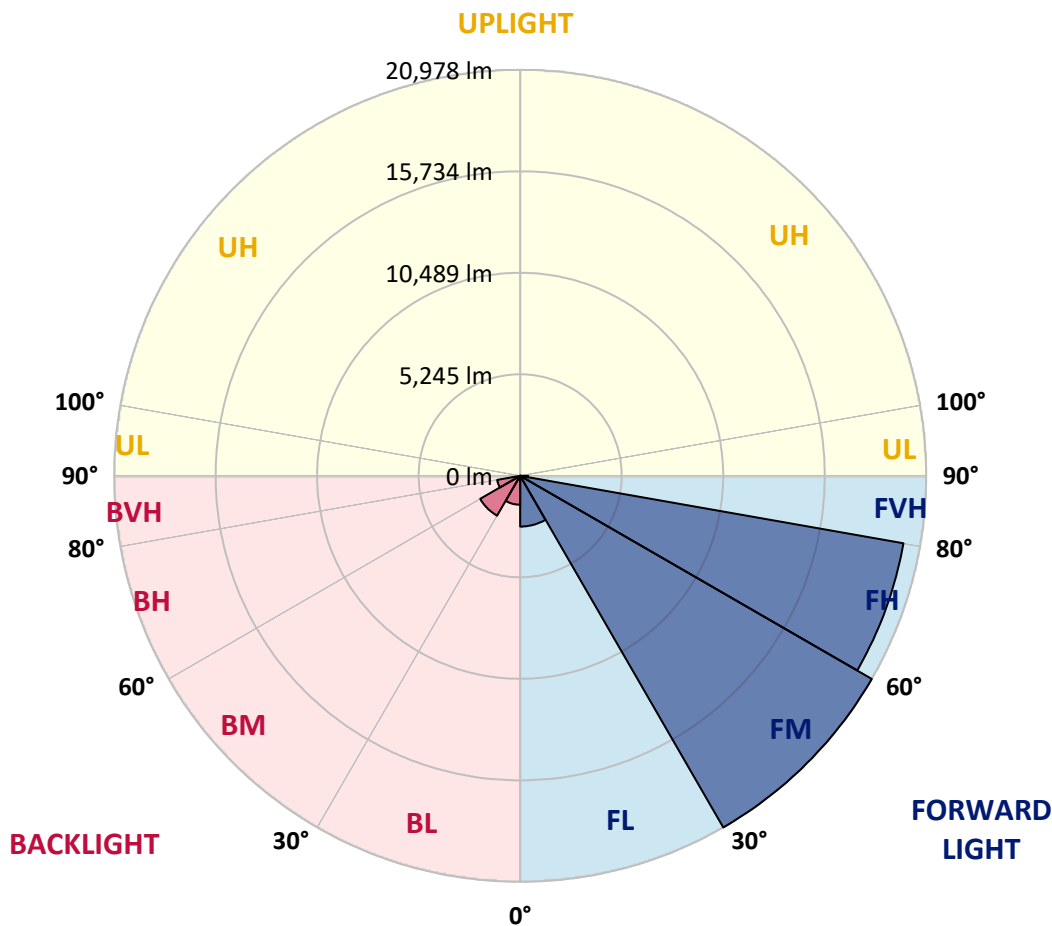
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2622.1	5.3			
FM (30°-60°)	20978.1	42.6			
FH (60°-80°)	20110.5	40.9			G5
FVH (80°-90°)	409.7	0.8			G3/500
BL (0°-30°)	1494.4	3.0	B3/2500		
BM (30°-60°)	2381.7	4.8	B2/2500		
BH (60°-80°)	1206.5	2.5	B3/2500		G3/2500
BVH (80°-90°)	9.0	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°	5671.9	5671.9	5671.9	5671.9	5671.9	5671.9	5671.9	5671.9	5671.9	5671.9	5671.9
2.5°	5740.4	5691.5	5694.7	5689.8	5671.9	5685.0	5676.8	5673.5	5660.5	5655.6	5654.0
5°	5642.5	5596.8	5611.5	5624.6	5624.6	5657.2	5663.7	5667.0	5652.3	5644.2	5634.4
7.5°	5489.1	5451.6	5476.1	5521.8	5554.4	5627.8	5667.0	5696.4	5693.1	5694.7	5683.3
10°	5361.9	5326.0	5373.3	5441.8	5508.7	5616.4	5693.1	5766.5	5809.0	5838.3	5835.1
12.5°	5319.4	5288.4	5332.5	5414.1	5500.6	5626.2	5742.1	5875.9	5977.0	6035.8	6027.6
15°	5326.0	5293.3	5337.4	5425.5	5520.1	5667.0	5836.7	6043.9	6194.1	6247.9	6257.7
17.5°	5378.2	5339.0	5373.3	5454.9	5567.5	5755.1	5993.4	6252.8	6442.1	6513.9	6512.2
20°	5448.4	5404.3	5435.3	5508.7	5640.9	5892.2	6192.4	6505.7	6727.6	6799.4	6789.6
22.5°	5552.8	5503.8	5526.7	5598.5	5768.2	6086.4	6427.4	6789.6	7034.4	7104.6	7075.2
25°	5838.3	5761.6	5716.0	5727.4	5931.3	6326.2	6750.5	7133.9	7390.1	7416.2	7370.5
27.5°	6567.7	6512.2	6282.2	6058.6	6130.4	6585.7	7164.9	7615.3	7847.0	7806.2	7744.2
30°	8070.5	7860.1	7497.8	6918.5	6577.5	6863.1	7564.7	8178.2	8388.7	8294.1	8175.0
32.5°	9865.5	9617.4	9085.5	8246.8	7484.8	7334.6	8042.8	8775.5	9020.2	8837.5	8716.7
35°	11634.2	11539.6	10986.5	9966.6	8852.1	8186.4	8687.3	9550.5	9891.6	9726.8	9601.1
37.5°	13646.2	13424.3	12952.7	11772.9	10514.9	9420.0	9570.1	10699.3	11170.8	10932.6	10735.2
40°	15666.3	15423.1	14949.9	13634.8	12425.6	11156.2	10846.1	12130.3	12776.5	12471.3	12141.7
42.5°	17661.9	17634.1	17030.4	15818.0	14444.1	13313.3	12668.8	13788.1	14594.2	14246.7	13696.8
45°	20238.4	19982.2	19220.2	18131.8	16965.1	15754.4	14943.4	15862.1	16829.7	16105.2	15229.0
47.5°	21824.4	21677.6	21065.7	20385.2	19709.7	18574.0	17469.3	18149.8	18972.1	18020.8	16756.3
50°	23175.5	23000.9	22566.9	22331.9	22299.2	21641.7	20189.4	20429.3	21124.4	20019.7	18223.2
52.5°	24014.2	23851.0	23572.0	23904.9	24681.6	24846.4	22845.9	22792.0	23477.4	22013.7	19616.7
55°	24033.8	23660.1	23880.4	24846.4	26641.3	27341.3	25579.0	25249.4	25502.3	24133.3	20920.4
57.5°	23195.1	23062.9	23714.0	25267.4	27910.8	29193.3	28121.3	27422.9	27617.1	26200.7	22052.9
60°	21480.1	21498.1	22929.1	25117.2	28674.4	30668.4	30485.6	30004.3	29736.7	28127.8	22930.7
62.5°	19071.7	19194.1	21028.1	24208.4	28512.9	31435.3	32543.3	32026.0	31378.2	29736.7	23423.5
65°	16382.6	16332.0	18303.1	22286.2	27057.4	31443.5	33925.3	33551.7	32615.1	30581.9	23283.2
67.5°	13308.4	13202.3	14992.4	19212.0	24774.6	30422.0	34289.2	34374.1	32951.2	30219.7	22232.3
68°	12647.6	12552.9	14269.5	18458.2	24188.8	30103.8	34277.8	34388.7	32884.3	29947.2	21881.5
70°	9888.3	9792.0	11193.7	14946.7	21232.1	28184.9	33737.7	33992.2	32016.2	28101.7	19877.8
72.5°	5551.2	5725.7	6983.8	10123.3	15839.2	24169.2	31541.4	31795.9	28862.1	22544.0	14958.1
75°	1786.7	1767.2	2844.1	4875.6	9036.5	16351.6	25836.8	25851.5	21675.9	13654.3	8264.7
77.5°	939.9	948.0	1145.5	1984.2	3669.8	7191.0	15819.6	16266.7	11226.3	5182.4	2822.9
80°	585.8	595.6	709.8	1143.8	1998.9	2446.0	6915.3	6934.9	3242.3	1178.1	673.9
82.5°	394.9	401.4	496.0	742.4	1329.9	1000.3	2108.2	2085.4	918.7	372.0	225.2
85°	187.6	190.9	319.8	509.1	651.1	414.5	608.6	644.5	455.3	176.2	96.3
87.5°	39.2	44.1	161.5	221.9	195.8	81.6	171.3	137.1	186.0	71.8	44.1
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°	5671.9	5671.9	5671.9	5671.9	5671.9	5671.9	5671.9	5671.9	5671.9	5671.9
2.5°	5660.5	5665.4	5650.7	5624.6	5621.3	5614.8	5626.2	5622.9	5626.2	5588.7
5°	5637.6	5631.1	5603.4	5572.4	5565.8	5554.4	5559.3	5546.3	5547.9	5498.9
7.5°	5686.6	5667.0	5618.1	5554.4	5476.1	5378.2	5304.8	5226.4	5219.9	5161.2
10°	5840.0	5809.0	5720.9	5526.7	5275.4	4934.4	4619.4	4329.0	4252.3	4138.1
12.5°	6026.0	5980.3	5789.4	5389.6	4776.1	4067.9	3446.2	3128.0	2991.0	2925.7
15°	6244.6	6154.9	5776.3	4978.4	3863.9	2925.7	2356.2	2018.5	1938.5	1883.0
17.5°	6500.8	6321.3	5642.5	4193.6	2907.7	2042.9	1661.1	1563.2	1551.8	1550.1
20°	6765.2	6450.2	5268.9	3341.8	2073.9	1563.2	1488.1	1453.9	1439.2	1434.3
22.5°	7027.9	6522.0	4617.8	2532.4	1561.6	1444.1	1390.2	1341.3	1318.4	1300.5
25°	7315.1	6512.2	3852.5	1830.8	1421.2	1349.4	1272.8	1204.2	1171.6	1148.7
27.5°	7659.3	6352.3	3066.0	1447.3	1320.1	1230.3	1132.4	1047.6	1000.3	988.8
30°	8057.5	5975.4	2312.2	1280.9	1191.2	1096.5	970.9	861.6	814.2	804.4
32.5°	8553.5	5448.4	1636.6	1140.6	1041.0	938.2	796.3	680.4	631.5	610.3
35°	9247.0	4833.2	1249.9	1008.4	890.9	765.3	618.4	530.3	487.9	479.7
37.5°	10089.0	4195.2	1067.2	890.9	757.1	605.4	474.8	412.8	385.1	380.2
40°	11051.7	3549.0	952.9	781.6	631.5	469.9	368.8	319.8	308.4	306.8
42.5°	11994.9	2837.6	864.8	682.1	512.4	363.9	282.3	254.6	251.3	252.9
45°	12776.5	2098.4	778.3	590.7	406.3	280.7	223.5	205.6	210.5	213.8
47.5°	13399.8	1465.3	695.1	496.0	318.2	226.8	184.4	173.0	181.1	184.4
50°	13864.8	1090.0	615.2	404.7	256.2	189.3	156.6	146.9	159.9	163.2
52.5°	14160.2	900.7	525.4	324.7	213.8	163.2	132.2	124.0	140.3	145.2
55°	14318.4	780.0	445.5	266.0	184.4	140.3	111.0	106.1	124.0	128.9
57.5°	14289.1	677.2	372.0	223.5	164.8	124.0	93.0	89.7	109.3	115.9
60°	14023.1	580.9	305.1	187.6	146.9	109.3	80.0	76.7	97.9	102.8
62.5°	13551.5	479.7	246.4	159.9	132.2	97.9	68.5	65.3	83.2	88.1
65°	12755.2	372.0	192.5	138.7	119.1	86.5	58.7	50.6	66.9	70.2
67.5°	11665.3	285.6	155.0	119.1	107.7	78.3	49.0	39.2	50.6	53.8
68°	11396.0	270.9	148.5	114.2	104.4	76.7	47.3	37.5	49.0	50.6
70°	10038.4	223.5	125.6	99.5	94.6	68.5	40.8	29.4	37.5	39.2
72.5°	6863.1	177.9	102.8	83.2	78.3	58.7	32.6	21.2	27.7	27.7
75°	2259.9	135.4	80.0	60.4	57.1	44.1	22.8	14.7	17.9	17.9
77.5°	496.0	89.7	52.2	37.5	34.3	27.7	14.7	6.5	9.8	9.8
80°	156.6	45.7	29.4	21.2	19.6	14.7	8.2	1.6	1.6	3.3
82.5°	60.4	22.8	21.2	16.3	13.1	9.8	4.9	0.0	0.0	0.0
85°	31.0	16.3	16.3	13.1	9.8	6.5	3.3	0.0	0.0	0.0
87.5°	17.9	14.7	14.7	11.4	8.2	3.3	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)