

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: P622851

Luminaire Tested: **PRV-M-PA6D-740-U-T4W-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-13)
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-T4W-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LIGHT ENGINES AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48961 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

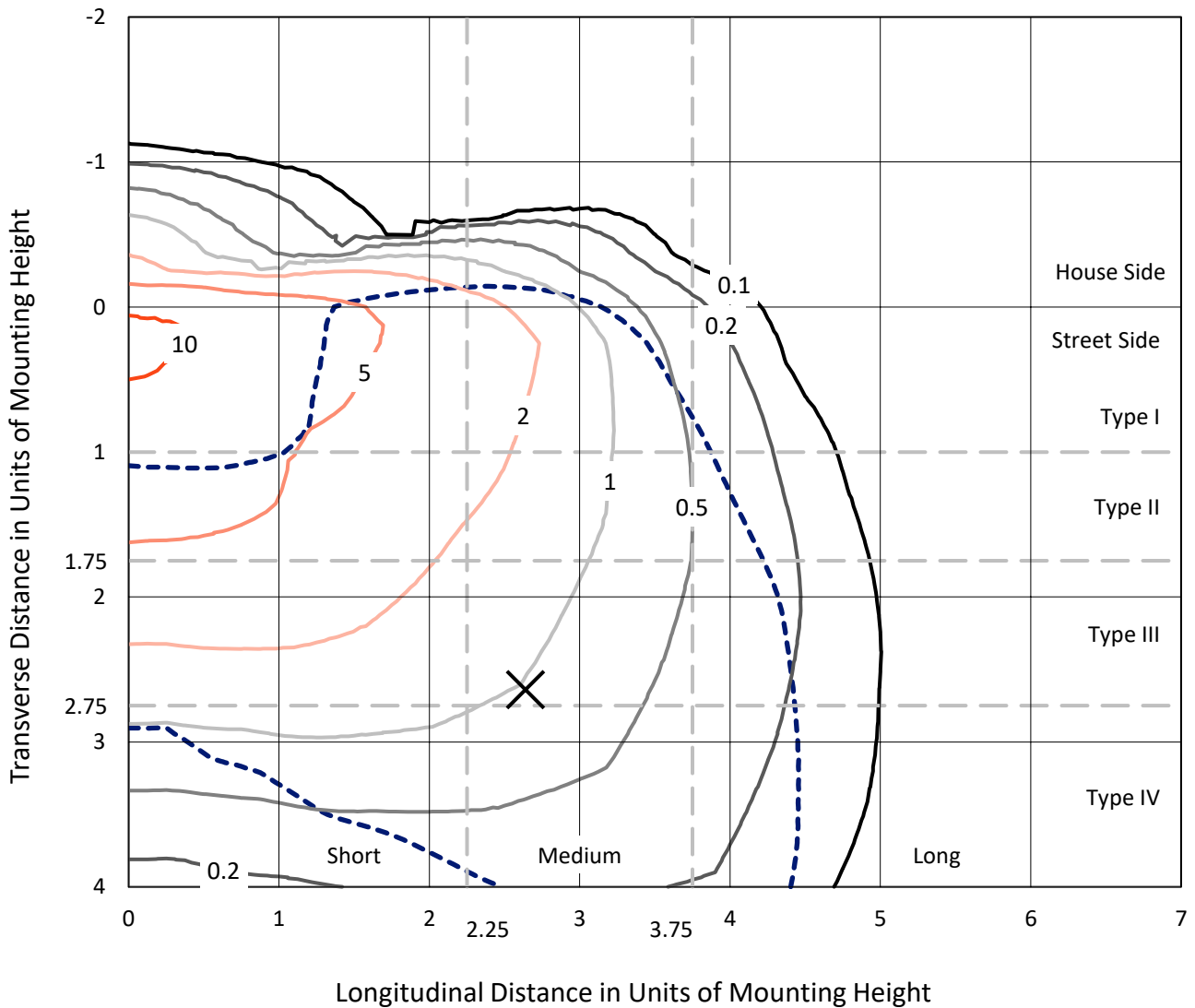
Input Watts (W): 544
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

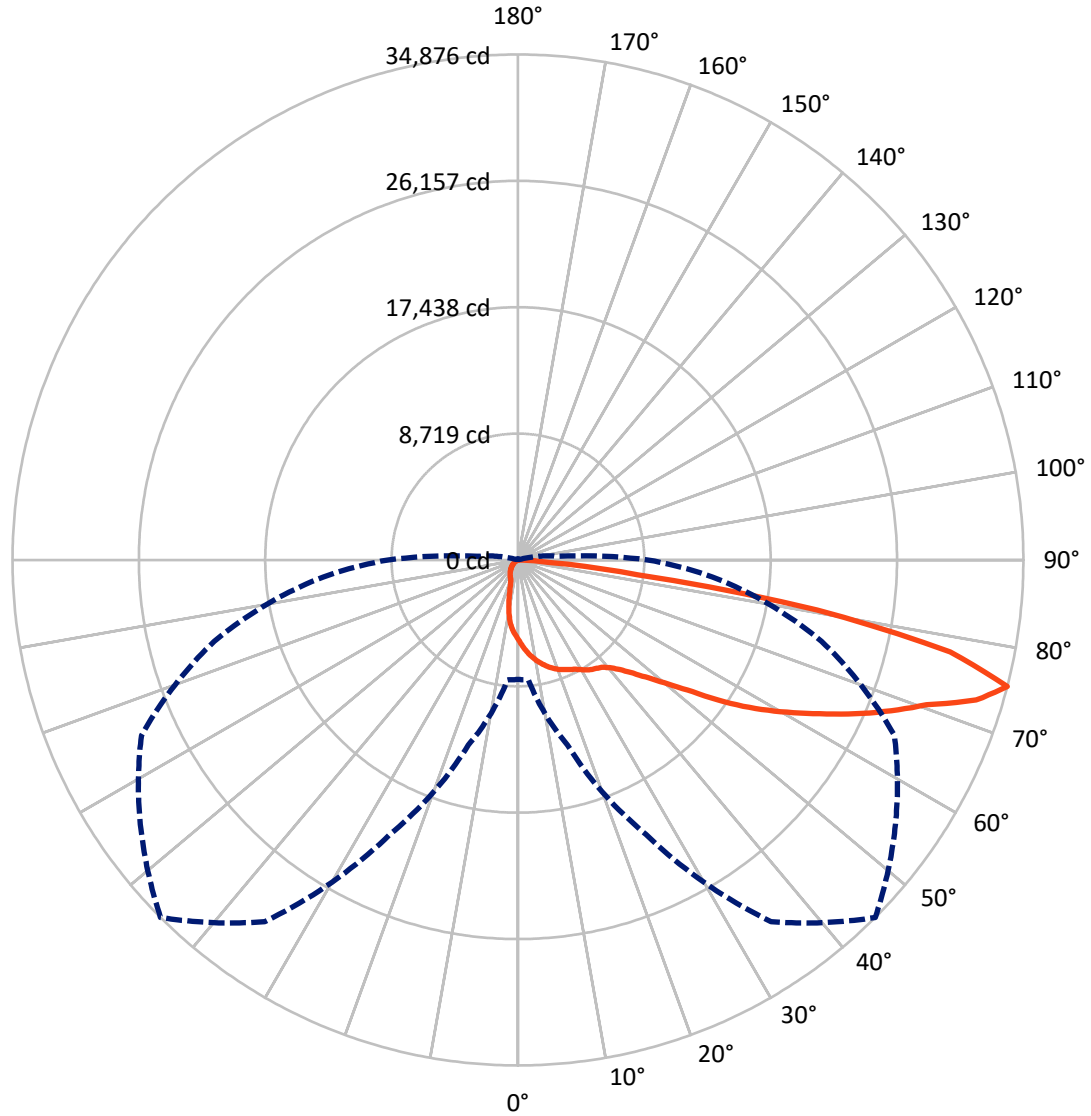
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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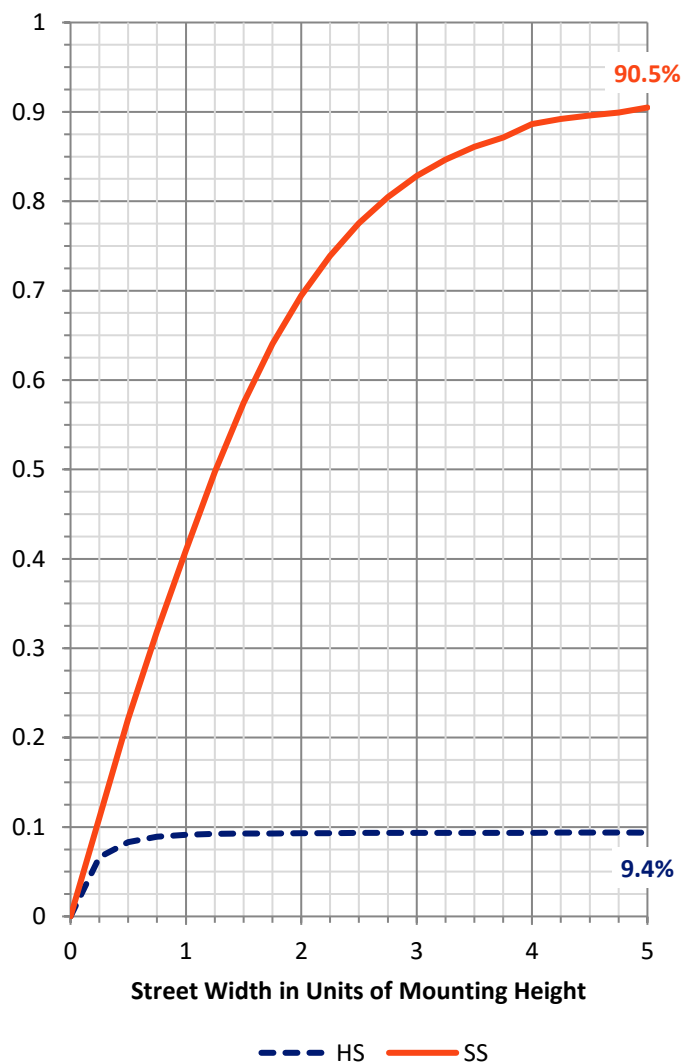
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4626.8	0.0	4626.8
	% Fixture	9.5	0.0	9.5
Street Side	Lumens	44334.2	0.0	44334.2
	% Fixture	90.5	0.0	90.5
Total	Lumens	48961.0	0.0	48961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.8	1.1
10°-20°	1514.4	3.1
20°-30°	2467.8	5.0
30°-40°	3482.7	7.1
40°-50°	5564.3	11.4
50°-60°	9435.7	19.3
60°-70°	13677.9	27.9
70°-80°	11133.6	22.7
80°-90°	1157.8	2.4
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°	48961.0	100.0
0°-180°	48961.0	100.0

Coefficient of Utilization



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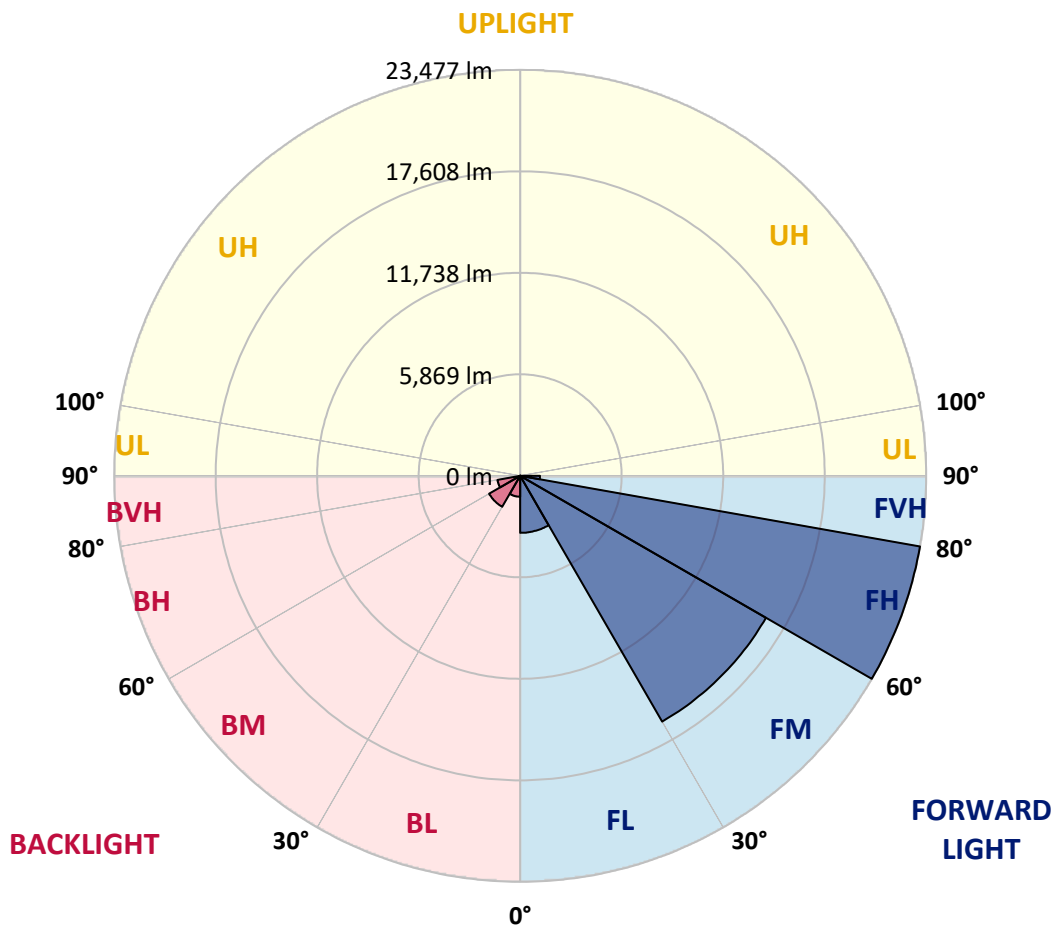
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3299.4	6.7			
FM (30°-60°)	16412.0	33.5			
FH (60°-80°)	23476.8	47.9			G5
FVH (80°-90°)	1145.9	2.3			G5
BL (0°-30°)	1209.5	2.5	B3/2500		
BM (30°-60°)	2070.6	4.2	B2/2500		
BH (60°-80°)	1334.8	2.7	B3/2500		G3/2500
BVH (80°-90°)	11.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5512.1	5512.1	5512.1	5512.1	5512.1	5512.1	5512.1	5512.1	5512.1	5512.1	5512.1
2.5°	6128.9	6132.2	6107.7	6052.2	5988.6	5936.4	5841.7	5748.7	5649.2	5552.9	5510.5
5°	6745.7	6734.3	6687.0	6585.8	6463.4	6345.9	6153.4	5975.5	5771.5	5574.1	5484.4
7.5°	7318.5	7289.1	7214.0	7068.8	6910.5	6716.3	6468.3	6208.9	5926.6	5670.4	5538.2
10°	7816.1	7790.0	7680.7	7491.4	7277.7	7049.2	6773.5	6499.3	6195.8	5864.6	5699.8
12.5°	8248.6	8199.6	8067.4	7827.6	7574.6	7347.8	7067.2	6817.5	6460.2	6106.1	5902.1
15°	8617.3	8563.5	8411.7	8116.4	7821.0	7622.0	7369.0	7121.0	6780.0	6357.4	6122.4
17.5°	8870.3	8819.7	8654.9	8323.6	8023.4	7855.3	7666.0	7421.3	7078.6	6620.1	6357.4
20°	8953.5	8898.0	8760.9	8423.2	8153.9	8064.2	7902.6	7695.4	7360.9	6889.3	6607.0
22.5°	8873.5	8819.7	8725.0	8415.0	8227.4	8220.8	8113.1	7946.7	7626.9	7152.0	6846.9
25°	8760.9	8710.4	8632.0	8367.7	8274.7	8362.8	8310.6	8171.9	7907.5	7432.7	7134.1
27.5°	8716.9	8661.4	8591.2	8374.2	8369.3	8540.7	8542.3	8441.1	8193.1	7724.8	7413.1
30°	8790.3	8728.3	8650.0	8465.6	8526.0	8787.0	8862.1	8747.9	8460.7	7995.6	7698.7
32.5°	8974.7	8863.7	8767.5	8601.0	8700.6	9040.0	9157.5	8978.0	8672.8	8273.0	8012.0
35°	9291.3	9119.9	8960.0	8778.9	8857.2	9201.5	9374.5	9237.4	8930.6	8609.2	8392.2
37.5°	9971.7	9756.3	9493.6	9133.0	9084.0	9397.3	9664.9	9647.0	9332.1	9051.4	8883.3
40°	11301.6	11030.7	10650.5	9872.2	9475.7	9754.7	10121.8	10214.8	9898.3	9655.1	9536.0
42.5°	13483.3	13209.1	12525.4	11055.2	10094.1	10330.7	10743.5	10989.9	10665.2	10506.9	10400.9
45°	15772.6	15562.1	14862.1	12807.7	11120.5	11144.9	11583.9	12042.4	11838.4	11662.2	11513.7
47.5°	17508.8	17304.9	16802.3	14929.0	12698.4	12156.6	12618.4	13313.6	13218.9	13067.2	12908.9
50°	18747.3	18528.7	18207.2	16927.9	14743.0	13429.4	13840.6	14787.0	15022.0	14932.3	14636.9
52.5°	19907.5	19687.2	19411.5	18669.0	17048.7	15080.8	15294.5	16582.0	16986.7	17032.3	16387.8
55°	20870.3	20697.3	20813.1	20341.6	19444.1	17291.8	16991.6	18445.5	19075.3	19403.3	18388.3
57.5°	21475.6	21286.4	21919.5	22180.6	21867.3	19342.9	18807.7	20493.3	21144.4	21963.5	20255.1
60°	22076.1	21859.1	22733.7	23815.6	24151.7	21328.8	20813.1	22555.9	23228.2	24902.3	22138.1
62.5°	22422.1	22183.8	23389.7	25060.6	25989.1	23358.7	22954.0	24651.1	25369.0	27973.3	23735.6
65°	21230.9	21173.8	23585.5	25878.1	27503.4	25590.9	25241.8	26741.3	27509.9	30783.2	25021.5
67.5°	19760.7	19749.2	22972.0	26390.5	28743.5	27759.6	27418.5	28883.8	29505.6	32452.5	25246.6
70°	18683.7	18687.0	21868.9	27067.7	30166.4	29918.4	29557.8	30889.3	30758.7	31230.3	23215.1
72.5°	15478.9	15633.9	19024.7	26065.8	31889.6	33059.5	31491.4	31806.3	28836.5	24190.9	17100.9
75°	8240.4	8307.3	13214.0	20883.3	30461.8	34875.7	31803.1	28665.2	21695.9	13475.1	8984.5
77.5°	2774.0	2715.3	4603.2	11269.0	23237.9	30492.8	26067.4	20162.1	11608.4	4443.3	2902.9
80°	876.3	905.6	1489.8	3583.4	12264.3	20922.5	15691.0	9986.4	3472.4	993.7	572.7
82.5°	394.9	427.5	685.3	1573.0	4818.6	8310.6	7592.6	3447.9	1191.2	318.2	213.8
85°	148.5	158.3	336.1	895.8	1956.5	2281.2	2635.3	1263.0	765.3	125.6	84.9
87.5°	35.9	40.8	138.7	290.5	456.9	310.0	434.0	466.7	429.2	44.1	34.3
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°	5512.1	5512.1	5512.1	5512.1	5512.1	5512.1	5512.1	5512.1	5512.1	5512.1
2.5°	5469.7	5379.9	5317.9	5228.2	5146.6	5117.2	5073.2	5060.1	5061.7	5022.6
5°	5404.4	5239.6	5104.2	4952.4	4817.0	4712.5	4601.6	4539.6	4511.8	4497.1
7.5°	5419.1	5177.6	4941.0	4657.1	4353.5	4102.3	3875.4	3744.9	3674.7	3661.7
10°	5539.8	5205.3	4810.4	4272.0	3718.8	3299.4	2976.3	2798.5	2692.4	2677.7
12.5°	5707.9	5254.3	4599.9	3767.7	2994.3	2429.7	2075.6	1959.7	1927.1	1923.8
15°	5893.9	5278.8	4291.5	3167.3	2256.7	1775.4	1613.8	1628.5	1648.1	1649.7
17.5°	6096.3	5257.5	3882.0	2517.8	1719.9	1501.2	1455.5	1498.0	1553.4	1555.1
20°	6313.3	5169.4	3397.3	1936.9	1473.5	1393.5	1390.3	1422.9	1481.6	1488.2
22.5°	6531.9	5004.6	2801.7	1566.5	1352.7	1334.8	1325.0	1346.2	1404.9	1411.5
25°	6755.5	4751.7	2215.9	1352.7	1279.3	1271.1	1256.5	1269.5	1318.5	1326.6
27.5°	6988.8	4458.0	1747.6	1217.3	1196.1	1192.8	1187.9	1183.0	1227.1	1236.9
30°	7207.5	4038.6	1388.6	1121.0	1096.5	1099.8	1094.9	1094.9	1130.8	1139.0
32.5°	7437.6	3596.4	1165.1	1034.5	997.0	992.1	997.0	1001.9	1024.7	1032.9
35°	7687.2	3084.0	1037.8	954.6	904.0	881.2	882.8	890.9	907.3	915.4
37.5°	7974.4	2594.5	952.9	881.2	819.1	781.6	762.0	762.0	780.0	780.0
40°	8323.6	2077.2	890.9	812.6	740.8	685.3	647.8	620.1	611.9	625.0
42.5°	8746.3	1653.0	838.7	758.8	667.4	598.9	530.3	473.2	458.5	463.4
45°	9276.6	1294.0	789.8	703.3	592.3	504.2	412.8	337.8	318.2	323.1
47.5°	9913.0	1060.6	739.2	642.9	514.0	409.6	290.5	228.4	226.8	231.7
50°	10658.7	905.6	678.8	584.2	438.9	308.4	195.8	159.9	174.6	182.8
52.5°	11484.4	817.5	620.1	527.1	360.6	215.4	138.7	127.3	146.9	153.4
55°	12316.6	757.1	563.0	461.8	280.7	153.4	109.3	107.7	128.9	133.8
57.5°	13026.4	687.0	507.5	388.4	212.1	122.4	96.3	96.3	117.5	122.4
60°	13584.4	594.0	442.2	297.0	163.2	107.7	84.9	84.9	107.7	112.6
62.5°	14008.7	458.5	344.3	220.3	138.7	101.2	76.7	75.1	97.9	104.4
65°	14111.5	318.2	251.3	168.1	125.6	96.3	68.5	65.3	88.1	93.0
67.5°	13643.2	225.2	187.7	135.4	117.5	93.0	62.0	55.5	76.7	81.6
70°	11851.5	174.6	145.2	111.0	112.6	91.4	57.1	47.3	62.0	65.3
72.5°	7995.6	143.6	117.5	94.6	106.1	86.5	50.6	37.5	49.0	50.6
75°	2839.3	115.9	93.0	76.7	91.4	76.7	42.4	29.4	35.9	37.5
77.5°	510.7	84.9	66.9	55.5	70.2	60.4	34.3	21.2	26.1	26.1
80°	128.9	49.0	39.2	31.0	47.3	42.4	26.1	16.3	17.9	17.9
82.5°	53.8	26.1	26.1	21.2	26.1	26.1	16.3	9.8	11.4	11.4
85°	31.0	21.2	21.2	17.9	17.9	16.3	11.4	6.5	3.3	4.9
87.5°	21.2	19.6	17.9	16.3	14.7	9.8	6.5	3.3	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)