

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: P622689

Luminaire Tested: **PRV-M-PA6B-740-U-T4W-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622689
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-PA6B-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: 37926 lumens
Efficiency: N/A
Efficacy: 103.7 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

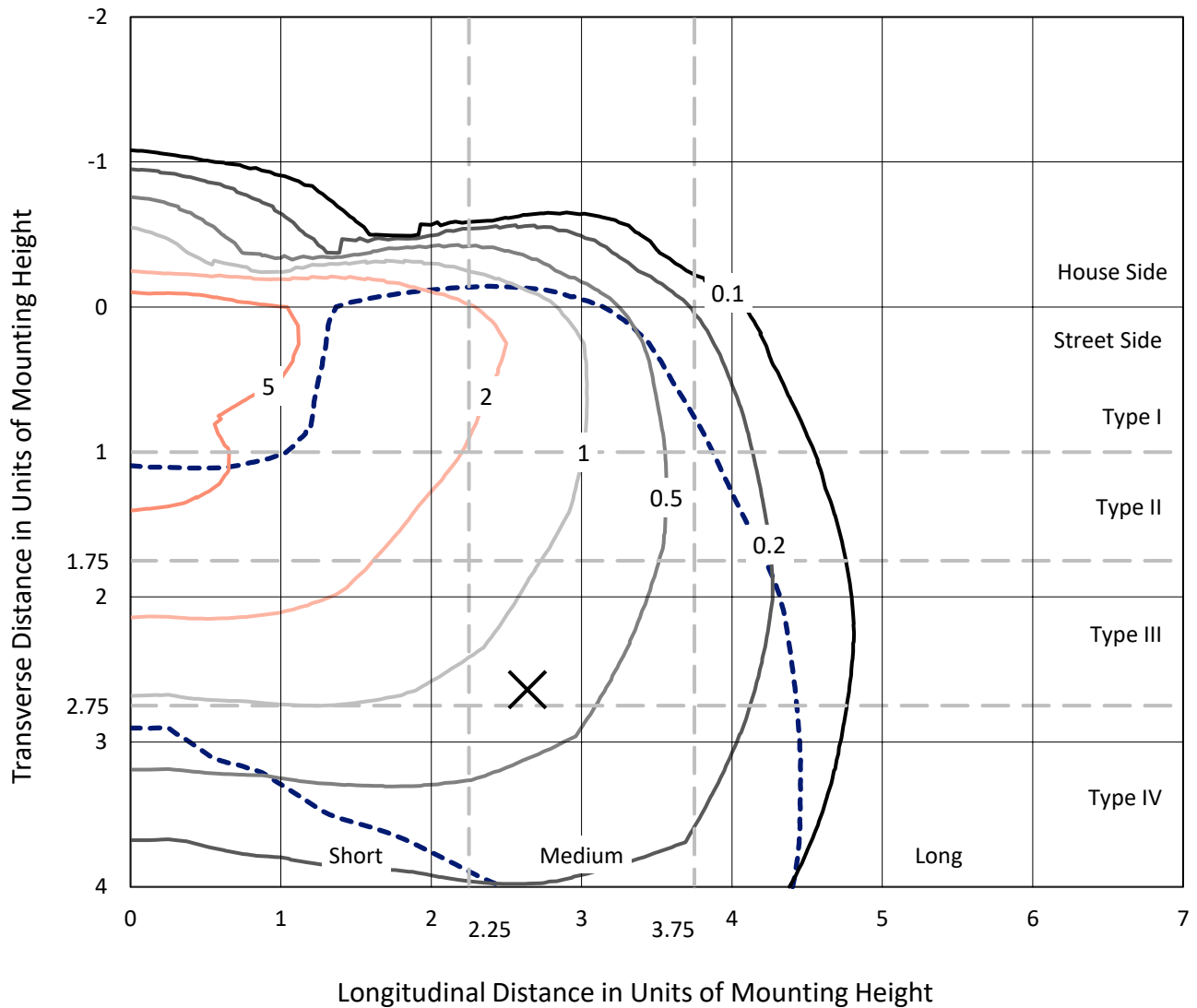
Input Watts (W): 365.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

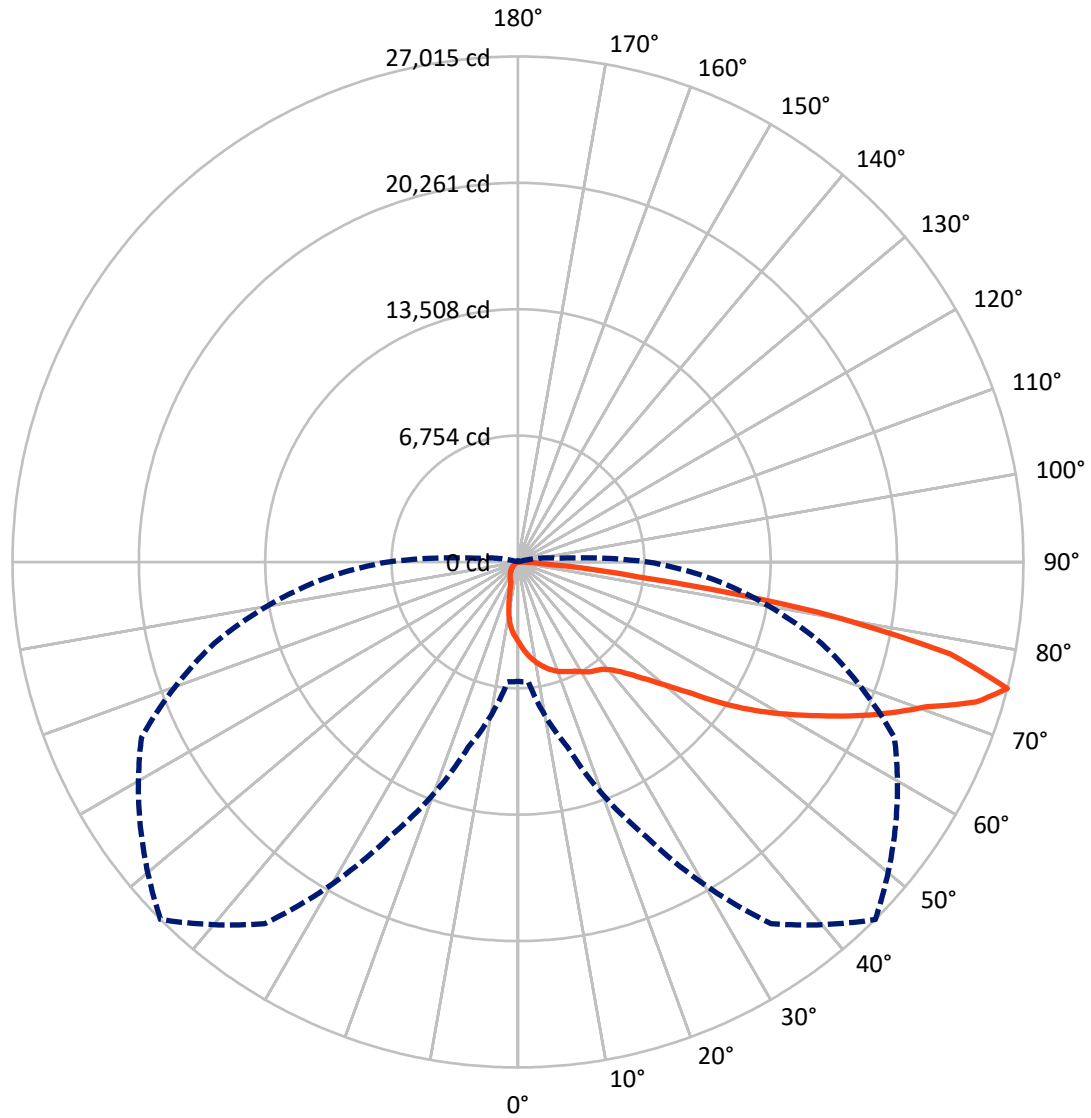
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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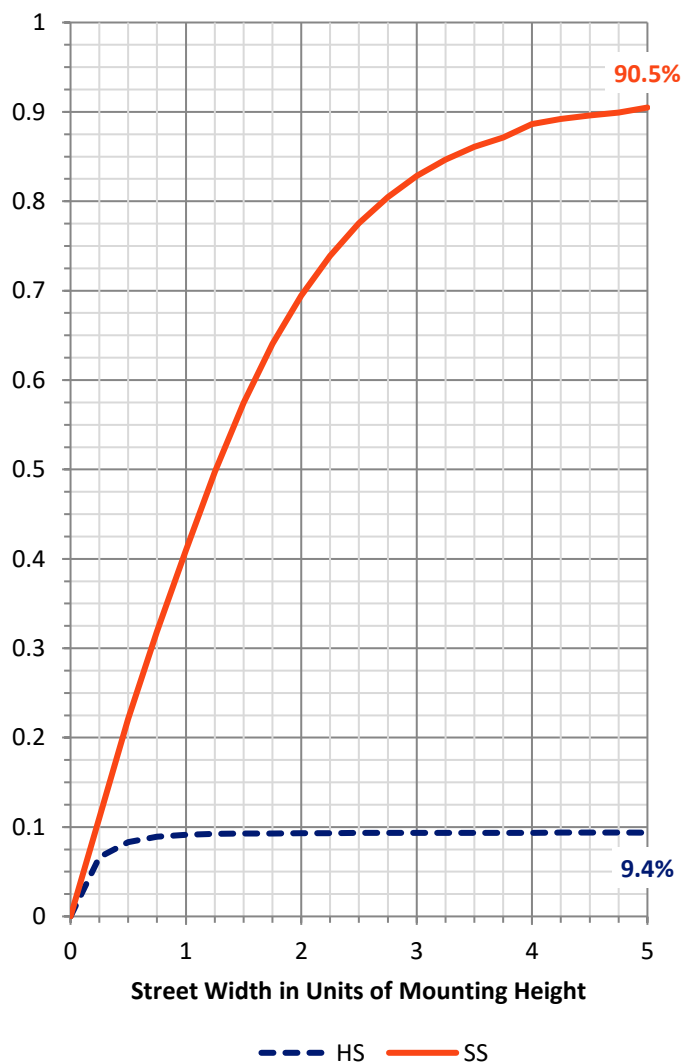
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3584.0	0.0	3584.0
	% Fixture	9.4	0.0	9.4
Street Side	Lumens	34342.0	0.0	34342.0
	% Fixture	90.6	0.0	90.6
Total	Lumens	37926.0	0.0	37926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.0	1.1
10°-20°	1173.1	3.1
20°-30°	1911.6	5.0
30°-40°	2697.8	7.1
40°-50°	4310.2	11.4
50°-60°	7309.0	19.3
60°-70°	10595.2	27.9
70°-80°	8624.3	22.7
80°-90°	896.8	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°	37926.0	100.0
0°-180°	37926.0	100.0

Coefficient of Utilization



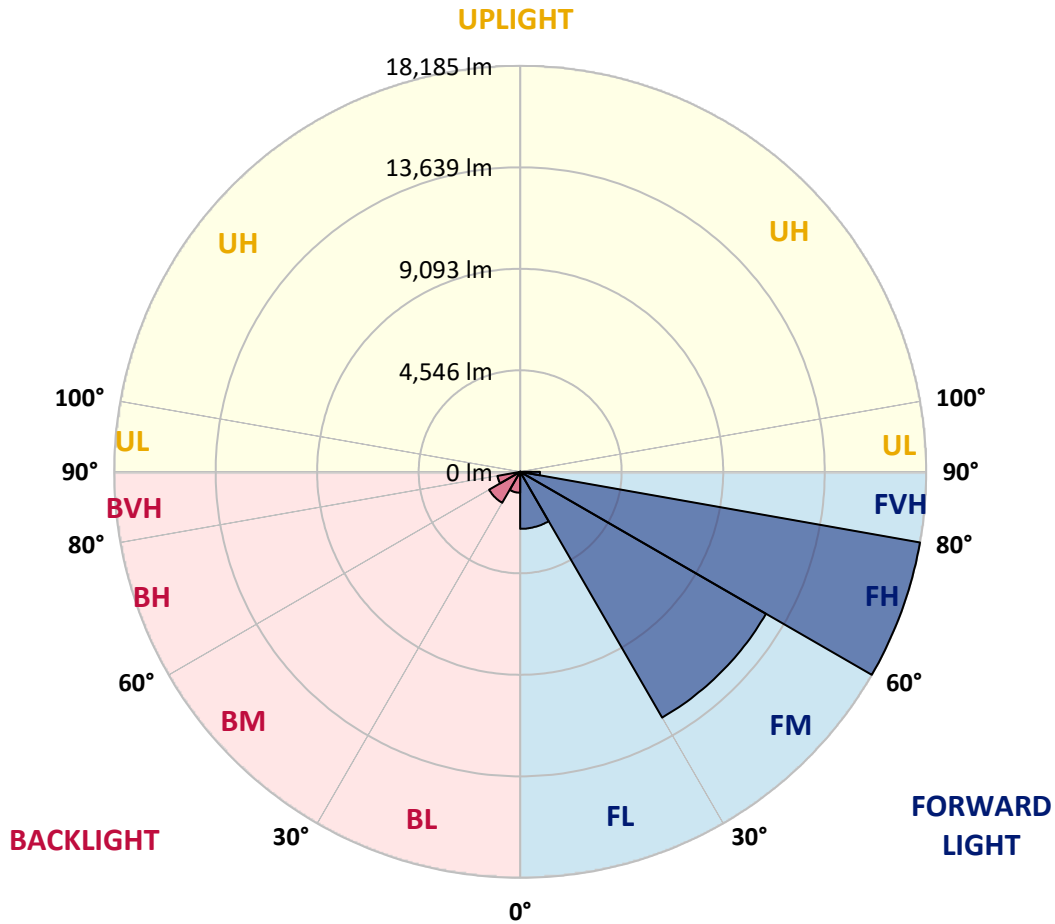
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2555.8	6.7			
FM (30°-60°)	12713.0	33.5			
FH (60°-80°)	18185.5	47.9			G5
FVH (80°-90°)	887.7	2.3			G5
BL (0°-30°)	936.9	2.5	B2/1000		
BM (30°-60°)	1604.0	4.2	B2/2500		
BH (60°-80°)	1034.0	2.7	B3/2500		G3/2500
BVH (80°-90°)	9.2	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8
2.5°	4747.6	4750.1	4731.1	4688.1	4638.8	4598.4	4525.1	4453.0	4375.9	4301.4	4268.5
5°	5225.3	5216.5	5179.8	5101.5	5006.7	4915.7	4766.5	4628.7	4470.7	4317.8	4248.3
7.5°	5669.0	5646.2	5588.1	5475.6	5353.0	5202.6	5010.5	4809.5	4590.8	4392.4	4290.0
10°	6054.5	6034.3	5949.6	5803.0	5637.4	5460.4	5246.8	5034.5	4799.4	4542.8	4415.1
12.5°	6389.5	6351.6	6249.2	6063.4	5867.4	5691.8	5474.3	5281.0	5004.1	4729.9	4571.9
15°	6675.1	6633.4	6515.9	6287.1	6058.3	5904.1	5708.2	5516.1	5251.9	4924.5	4742.5
17.5°	6871.1	6831.9	6704.2	6447.6	6215.0	6084.9	5938.2	5748.6	5483.2	5128.0	4924.5
20°	6935.5	6892.5	6786.4	6524.7	6316.2	6246.6	6121.5	5961.0	5701.9	5336.6	5117.9
22.5°	6873.6	6831.9	6758.6	6518.4	6373.0	6368.0	6284.6	6155.6	5907.9	5540.1	5303.7
25°	6786.4	6747.2	6686.5	6481.7	6409.7	6478.0	6437.5	6330.1	6125.3	5757.5	5526.2
27.5°	6752.2	6709.3	6654.9	6486.8	6483.0	6615.7	6617.0	6538.6	6346.5	5983.7	5742.3
30°	6809.1	6761.1	6700.4	6557.6	6604.4	6806.6	6864.7	6776.3	6553.8	6193.6	5963.5
32.5°	6952.0	6866.0	6791.4	6662.5	6739.6	7002.5	7093.5	6954.5	6718.1	6408.4	6206.2
35°	7197.2	7064.4	6940.6	6800.3	6860.9	7127.6	7261.6	7155.5	6917.8	6668.8	6500.7
37.5°	7724.2	7557.4	7353.9	7074.6	7036.6	7279.3	7486.6	7472.7	7228.8	7011.4	6881.2
40°	8754.4	8544.6	8250.1	7647.1	7340.0	7556.1	7840.5	7912.6	7667.4	7479.0	7386.8
42.5°	10444.4	10232.0	9702.4	8563.5	7819.0	8002.3	8322.1	8513.0	8261.4	8138.8	8056.7
45°	12217.7	12054.7	11512.4	9921.1	8614.1	8633.1	8973.1	9328.3	9170.3	9033.7	8918.7
47.5°	13562.6	13404.6	13015.3	11564.3	9836.4	9416.7	9774.4	10312.9	10239.6	10122.0	9999.4
50°	14522.0	14352.6	14103.6	13112.6	11420.2	10402.6	10721.2	11454.3	11636.3	11566.8	11338.0
52.5°	15420.7	15250.1	15036.4	14461.3	13206.2	11681.8	11847.4	12844.7	13158.1	13193.5	12694.3
55°	16166.4	16032.5	16122.2	15756.9	15061.7	13394.5	13161.9	14288.2	14776.1	15030.1	14243.9
57.5°	16635.4	16488.8	16979.2	17181.4	16938.7	14983.4	14568.8	15874.5	16378.8	17013.3	15689.9
60°	17100.5	16932.4	17609.9	18448.0	18708.3	16521.6	16122.2	17472.1	17992.9	19289.8	17148.6
62.5°	17368.5	17184.0	18118.0	19412.4	20131.6	18094.0	17780.6	19095.1	19651.3	21668.6	18386.0
65°	16445.8	16401.5	18269.7	20045.6	21304.6	19823.2	19552.7	20714.3	21309.6	23845.2	19382.0
67.5°	15306.9	15298.1	17794.5	20442.5	22265.2	21503.0	21238.8	22373.9	22855.5	25138.3	19556.5
70°	14472.7	14475.2	16940.0	20967.1	23367.4	23175.3	22895.9	23927.4	23826.2	24191.5	17982.8
72.5°	11990.2	12110.3	14736.9	20191.0	24702.2	25608.5	24393.8	24637.7	22337.3	18738.7	13246.6
75°	6383.2	6435.0	10235.8	16176.6	23596.2	27015.3	24635.2	22204.5	16806.0	10438.0	6959.5
77.5°	2148.8	2103.3	3565.7	8729.1	18000.5	23620.2	20192.3	15617.9	8992.0	3441.8	2248.6
80°	678.8	701.5	1154.0	2775.7	9500.2	16206.9	12154.5	7735.6	2689.8	769.8	443.7
82.5°	305.9	331.2	530.9	1218.5	3732.6	6437.5	5881.4	2670.8	922.7	246.5	165.6
85°	115.0	122.6	260.4	693.9	1515.5	1767.1	2041.3	978.3	592.8	97.3	65.7
87.5°	27.8	31.6	107.4	225.0	353.9	240.2	336.2	361.5	332.4	34.1	26.5
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°	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8	4269.8
2.5°	4236.9	4167.4	4119.3	4049.8	3986.6	3963.9	3929.7	3919.6	3920.9	3890.6
5°	4186.3	4058.7	3953.8	3836.2	3731.3	3650.4	3564.5	3516.4	3494.9	3483.6
7.5°	4197.7	4010.6	3827.4	3607.4	3372.3	3177.7	3002.0	2900.9	2846.5	2836.4
10°	4291.2	4032.1	3726.2	3309.1	2880.6	2555.8	2305.5	2167.7	2085.6	2074.2
12.5°	4421.4	4070.1	3563.2	2918.6	2319.4	1882.1	1607.8	1518.1	1492.8	1490.2
15°	4565.5	4089.0	3324.3	2453.4	1748.1	1375.2	1250.1	1261.5	1276.6	1277.9
17.5°	4722.3	4072.6	3007.0	1950.3	1332.2	1162.9	1127.5	1160.3	1203.3	1204.6
20°	4890.4	4004.3	2631.6	1500.4	1141.4	1079.4	1076.9	1102.2	1147.7	1152.8
22.5°	5059.8	3876.7	2170.3	1213.4	1047.8	1033.9	1026.4	1042.8	1088.3	1093.4
25°	5232.9	3680.7	1716.5	1047.8	991.0	984.6	973.3	983.4	1021.3	1027.6
27.5°	5413.7	3453.2	1353.7	942.9	926.5	924.0	920.2	916.4	950.5	958.1
30°	5583.0	3128.4	1075.7	868.4	849.4	851.9	848.1	848.1	875.9	882.3
32.5°	5761.3	2785.8	902.5	801.4	772.3	768.5	772.3	776.1	793.8	800.1
35°	5954.7	2388.9	803.9	739.4	700.3	682.6	683.8	690.1	702.8	709.1
37.5°	6177.1	2009.7	738.2	682.6	634.5	605.5	590.3	590.3	604.2	604.2
40°	6447.6	1609.1	690.1	629.5	573.9	530.9	501.8	480.3	474.0	484.1
42.5°	6775.0	1280.4	649.7	587.8	517.0	463.9	410.8	366.6	355.2	359.0
45°	7185.8	1002.3	611.8	544.8	458.8	390.6	319.8	261.6	246.5	250.3
47.5°	7678.7	821.6	572.6	498.0	398.2	317.3	225.0	177.0	175.7	179.5
50°	8256.4	701.5	525.8	452.5	340.0	238.9	151.7	123.9	135.2	141.6
52.5°	8896.0	633.3	480.3	408.3	279.3	166.8	107.4	98.6	113.8	118.8
55°	9540.6	586.5	436.1	357.7	217.4	118.8	84.7	83.4	99.9	103.6
57.5°	10090.4	532.1	393.1	300.8	164.3	94.8	74.6	74.6	91.0	94.8
60°	10522.7	460.1	342.5	230.0	126.4	83.4	65.7	65.7	83.4	87.2
62.5°	10851.4	355.2	266.7	170.6	107.4	78.4	59.4	58.1	75.8	80.9
65°	10931.0	246.5	194.7	130.2	97.3	74.6	53.1	50.6	68.3	72.0
67.5°	10568.2	174.4	145.4	104.9	91.0	72.0	48.0	43.0	59.4	63.2
70°	9180.4	135.2	112.5	86.0	87.2	70.8	44.2	36.7	48.0	50.6
72.5°	6193.6	111.2	91.0	73.3	82.2	67.0	39.2	29.1	37.9	39.2
75°	2199.3	89.7	72.0	59.4	70.8	59.4	32.9	22.8	27.8	29.1
77.5°	395.6	65.7	51.8	43.0	54.4	46.8	26.5	16.4	20.2	20.2
80°	99.9	37.9	30.3	24.0	36.7	32.9	20.2	12.6	13.9	13.9
82.5°	41.7	20.2	20.2	16.4	20.2	20.2	12.6	7.6	8.8	8.8
85°	24.0	16.4	16.4	13.9	13.9	12.6	8.8	5.1	2.5	3.8
87.5°	16.4	15.2	13.9	12.6	11.4	7.6	5.1	2.5	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)