

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: McGRAW-EDISON

Report Number: P199936

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-AFL-7030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12325.5 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

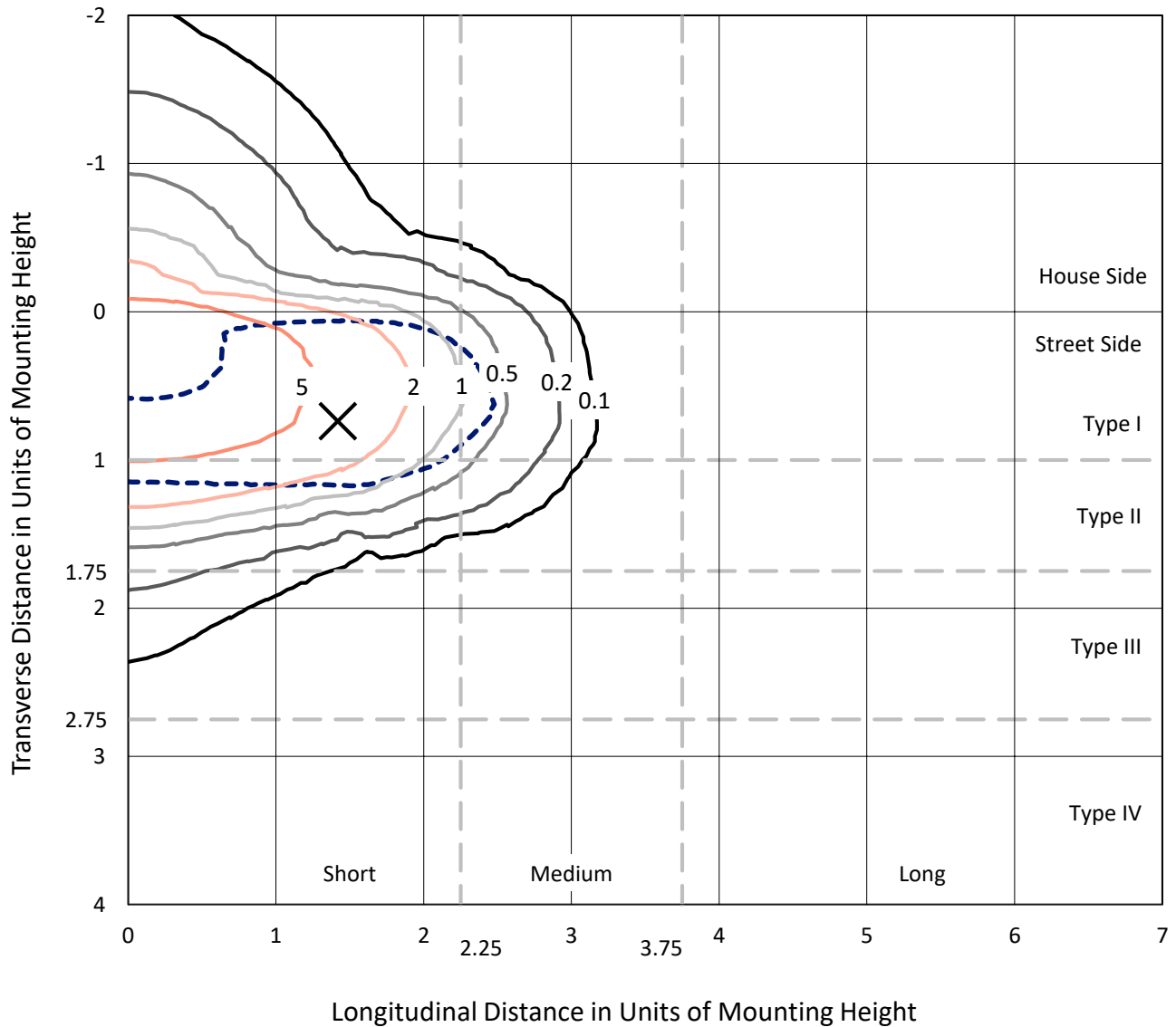
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

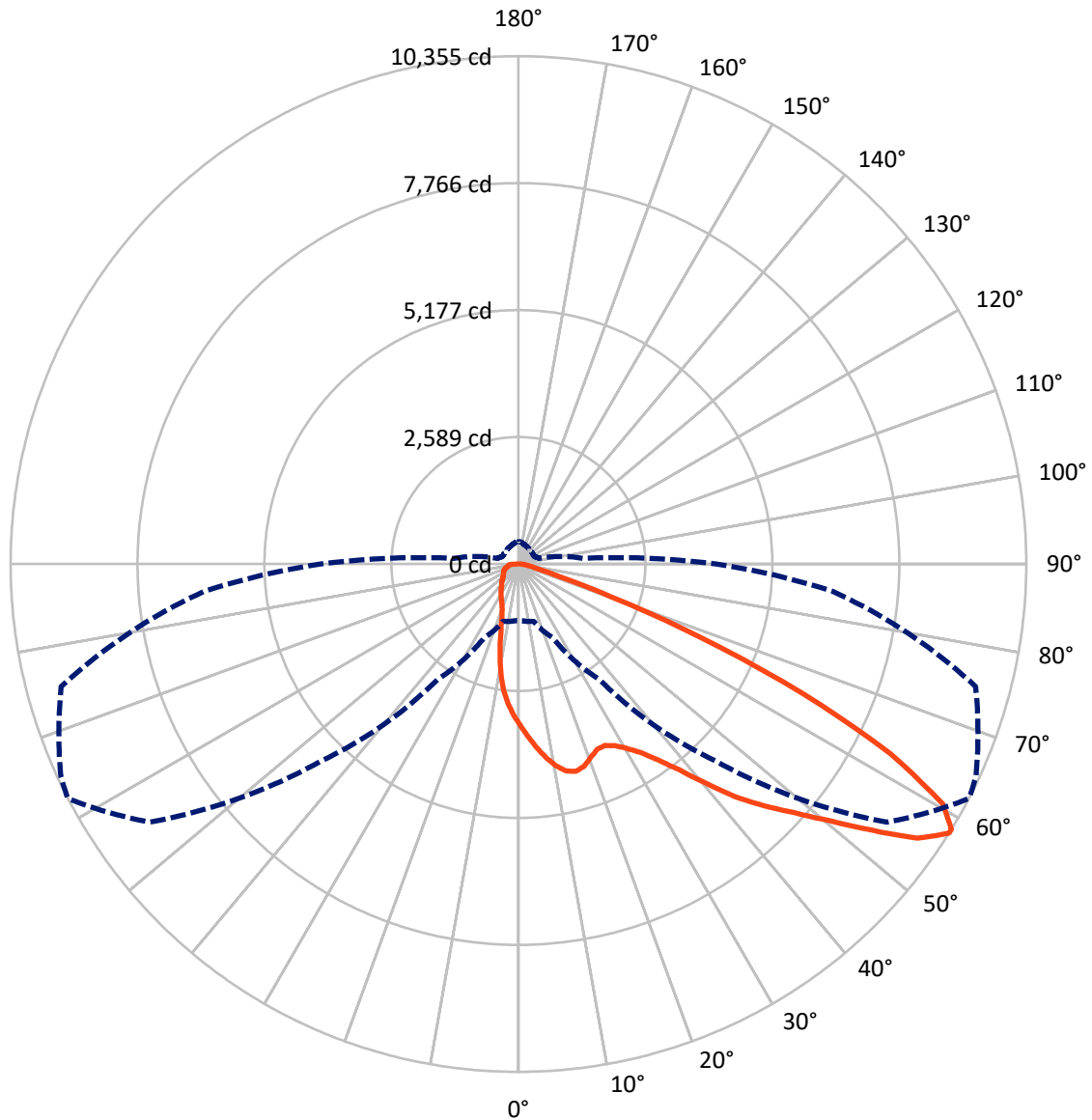
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.7	0.0	1879.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10445.9	0.0	10445.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	12325.5	0.0	12325.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.8	2.4
10°-20°	748.5	6.1
20°-30°	1209.9	9.8
30°-40°	1920.8	15.6
40°-50°	2810.5	22.8
50°-60°	2939.5	23.8
60°-70°	1736.7	14.1
70°-80°	489.2	4.0
80°-90°	177.6	1.4
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°	12325.5	100.0
0°-180°	12325.5	100.0



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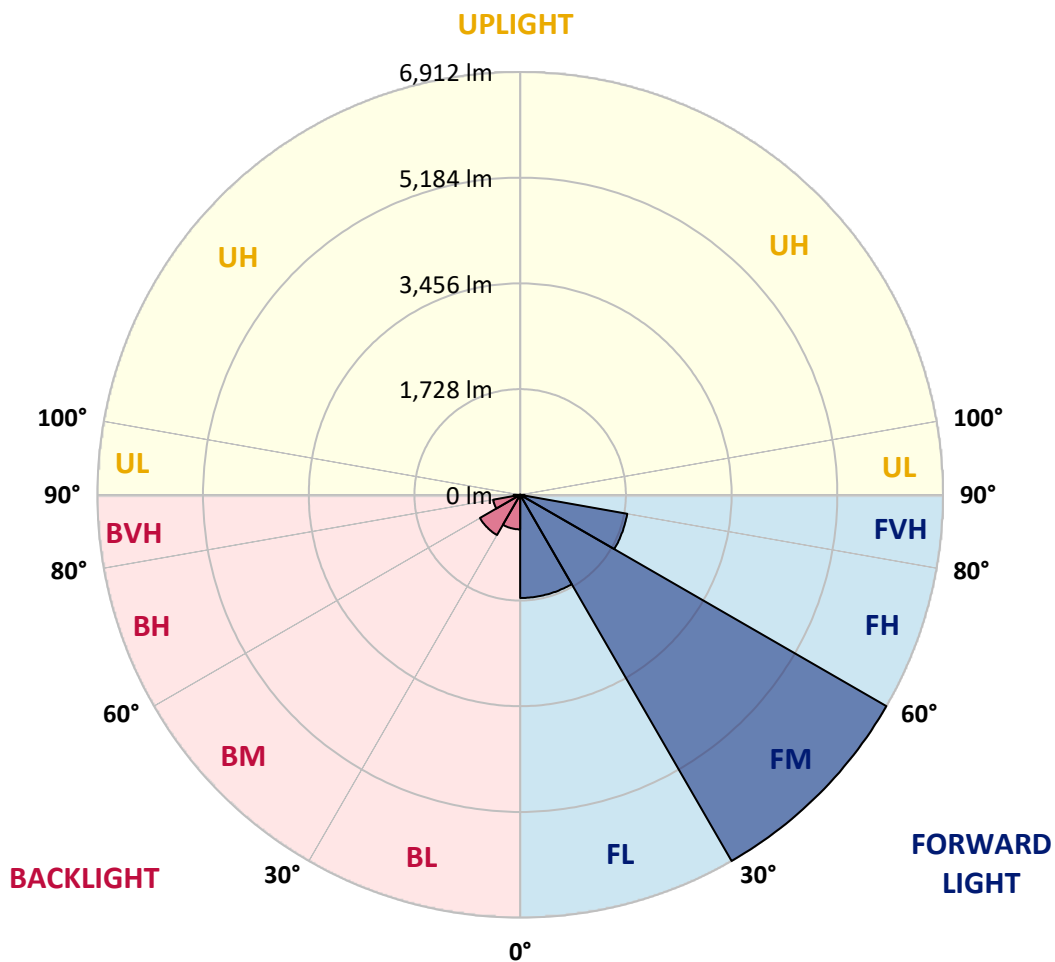
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1686.3	13.7			
FM	(30°-60°)	6912.1	56.1			
FH	(60°-80°)	1777.4	14.4			G1/1800
FVH	(80°-90°)	70.1	0.6			G1/100
BL	(0°-30°)	564.9	4.6	B2/1000		
BM	(30°-60°)	758.7	6.2	B1/1000		
BH	(60°-80°)	448.5	3.6	B1/500		G1/500
BVH	(80°-90°)	107.5	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1
2.5°	3741.2	3711.1	3691.9	3675.1	3653.0	3606.0	3542.7	3502.8	3482.4	3413.4	3331.6
5°	4108.0	4081.4	4061.6	4039.0	3999.6	3925.8	3823.6	3742.4	3702.4	3564.2	3400.5
7.5°	4022.2	4033.2	4067.4	4127.2	4178.3	4168.5	4077.3	3974.0	3921.2	3729.0	3480.7
10°	3504.5	3523.6	3582.8	3722.7	3949.0	4181.3	4252.1	4180.6	4127.2	3892.2	3563.1
12.5°	3400.5	3399.9	3404.6	3441.7	3576.4	3903.2	4257.9	4329.7	4297.8	4047.7	3647.2
15°	3443.0	3444.1	3440.6	3456.3	3498.1	3627.5	4080.2	4387.2	4409.9	4204.4	3734.3
17.5°	3554.3	3551.5	3538.2	3538.2	3553.2	3603.7	3871.3	4333.9	4438.3	4343.2	3810.9
20°	3741.2	3727.9	3692.5	3659.9	3643.8	3671.0	3785.4	4210.8	4389.0	4464.5	3874.2
22.5°	3967.6	3957.2	3899.7	3830.1	3773.7	3773.2	3829.4	4103.4	4303.6	4578.7	3927.6
25°	4260.1	4243.3	4158.0	4046.5	3947.9	3910.2	3925.8	4098.2	4257.2	4702.9	3975.2
27.5°	4603.7	4572.9	4472.0	4311.2	4166.0	4090.1	4067.4	4192.9	4299.6	4856.8	4041.3
30°	5020.5	4985.1	4855.6	4646.1	4441.2	4316.4	4268.2	4360.5	4440.1	5044.3	4147.5
32.5°	5494.6	5443.6	5293.8	5062.8	4793.5	4603.1	4524.8	4582.3	4645.4	5270.0	4280.4
35°	6149.8	6088.9	5872.4	5553.8	5249.7	4987.9	4862.6	4904.3	4966.0	5606.6	4472.5
37.5°	6596.8	6569.5	6425.6	6126.0	5795.3	5494.1	5300.1	5324.5	5359.3	6027.4	4718.7
40°	6592.7	6603.7	6606.7	6609.5	6384.3	6095.9	5887.6	5862.0	5855.1	6489.5	4998.4
42.5°	6262.5	6307.7	6454.1	6750.6	6887.6	6755.3	6564.3	6490.5	6454.1	7033.9	5294.9
45°	5757.0	5781.4	6055.2	6634.6	7145.3	7408.3	7263.7	7031.5	6965.4	7534.2	5541.1
47.5°	5496.4	5523.0	5695.4	6326.8	7142.4	7935.8	8019.4	7577.1	7458.7	7969.5	5753.5
50°	4875.9	4931.6	5148.8	5791.9	6881.8	8178.4	8809.2	8227.1	7982.3	8393.2	5966.5
52.5°	3736.5	3822.6	4065.6	4911.9	6220.6	8058.2	9441.3	9015.3	8669.4	8832.0	6149.3
55°	2357.0	2420.8	2625.2	3469.1	4976.3	7433.1	9681.0	9868.0	9560.3	9247.4	6307.7
57.5°	1281.5	1309.9	1386.6	1915.4	3237.0	6051.3	9331.7	10353.2	10225.5	9600.4	6427.2
58°	1146.9	1166.1	1213.7	1659.9	2870.7	5673.4	9176.6	10354.9	10291.0	9652.1	6436.6
60°	850.9	841.0	798.5	947.2	1597.8	3919.4	8239.9	9940.5	10128.0	9715.4	6391.3
62.5°	747.6	723.8	637.3	627.3	777.2	1805.6	6305.0	8515.0	8957.8	9354.2	6116.3
65°	702.3	676.8	565.3	529.4	560.7	763.8	3713.9	6386.1	6941.6	8259.7	5412.8
67.5°	668.6	635.6	519.4	470.2	472.4	505.0	1488.7	4022.2	4647.3	6271.2	4210.2
70°	636.1	600.2	480.5	423.7	410.4	399.4	591.9	2013.4	2580.4	3961.2	2684.4
72.5°	601.3	565.9	446.4	387.1	361.0	324.4	386.6	823.6	1150.4	1874.2	1217.7
75°	550.7	518.9	412.1	354.6	317.5	268.8	291.9	430.1	515.9	746.4	586.8
77.5°	488.7	462.6	373.7	327.9	281.5	218.2	224.6	298.3	330.8	427.2	348.9
80°	351.2	360.4	332.5	294.9	250.7	177.0	172.4	217.7	235.0	274.6	226.9
82.5°	246.7	251.9	275.2	240.9	207.1	139.3	127.1	153.2	163.7	180.5	122.5
85°	170.0	164.2	188.6	167.7	149.8	92.9	87.1	103.9	110.3	112.0	63.3
87.5°	102.1	102.1	109.2	89.9	80.7	48.2	47.0	59.2	63.3	60.3	34.9
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°	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1	3274.1
2.5°	3282.7	3241.5	3153.9	3083.7	2994.9	2902.6	2850.9	2795.7	2758.0	2730.8	2774.3
5°	3307.8	3223.5	3042.5	2870.7	2680.9	2483.6	2333.8	2194.5	2097.6	2037.2	2094.1
7.5°	3347.1	3217.6	2929.2	2635.6	2294.9	1966.3	1672.8	1488.7	1381.4	1328.5	1361.6
10°	3392.4	3208.4	2796.4	2317.0	1829.4	1415.6	1196.2	1121.9	1097.5	1087.6	1092.3
12.5°	3430.2	3188.7	2633.2	1931.6	1373.8	1117.8	1054.6	1052.8	1058.0	1059.3	1061.0
15°	3456.9	3159.7	2391.2	1529.9	1098.7	1018.7	1015.1	1025.6	1035.4	1039.5	1041.8
17.5°	3474.9	3099.9	2117.9	1209.5	984.3	970.4	978.5	991.8	1002.4	1005.3	1007.6
20°	3473.2	3012.3	1792.3	1008.7	922.2	922.2	936.2	946.6	947.2	943.8	945.4
22.5°	3455.1	2892.1	1476.5	901.9	867.1	877.1	890.9	881.0	840.4	813.8	815.5
25°	3425.0	2748.8	1206.1	834.0	816.0	833.4	829.4	755.1	697.1	671.0	671.0
27.5°	3398.2	2579.3	998.3	774.8	765.0	786.4	714.4	647.2	622.8	610.5	606.5
30°	3379.1	2396.5	859.6	718.0	716.7	701.1	619.8	601.3	597.2	587.4	583.9
32.5°	3383.8	2211.3	770.8	668.0	672.1	600.2	574.6	578.6	575.1	564.8	560.1
35°	3422.0	2035.5	712.7	622.8	610.5	542.2	547.9	555.5	554.3	539.7	535.2
37.5°	3490.5	1868.9	674.4	585.1	532.8	513.1	522.4	533.9	531.1	521.1	517.7
40°	3562.5	1712.2	643.1	555.5	487.0	493.3	501.5	507.8	510.8	513.6	511.4
42.5°	3632.8	1548.5	604.8	525.2	467.8	474.7	478.2	484.7	500.3	511.4	510.8
45°	3674.5	1394.7	565.3	482.3	452.7	456.8	454.4	467.2	486.4	504.3	505.0
47.5°	3721.0	1275.2	533.9	442.8	438.2	441.1	434.1	446.9	464.4	486.4	488.7
50°	3777.2	1203.7	509.0	411.5	418.5	418.5	416.8	428.3	452.7	478.2	482.9
52.5°	3841.1	1189.9	488.1	388.9	398.7	398.1	399.9	417.3	444.0	468.9	473.0
55°	3918.8	1227.5	465.5	372.0	379.5	381.9	387.7	407.4	430.1	458.6	460.3
57.5°	4009.4	1304.1	447.5	358.7	362.2	369.8	379.0	396.9	421.4	452.7	454.4
58°	4024.4	1320.4	444.5	357.5	358.7	367.4	377.8	395.3	419.7	453.9	455.6
60°	4025.1	1374.4	438.2	352.3	345.4	359.9	371.5	388.9	416.8	457.9	461.9
62.5°	3882.3	1373.8	433.5	344.7	331.4	349.4	362.7	383.1	413.9	467.8	476.0
65°	3418.5	1248.4	411.5	333.1	320.3	340.2	355.2	379.0	422.0	510.8	515.9
67.5°	2673.9	1023.2	370.3	316.9	305.8	330.8	350.6	378.5	430.7	520.6	524.1
70°	1768.0	765.6	325.0	298.3	290.7	319.8	352.9	398.1	420.7	499.8	490.5
72.5°	917.6	537.4	288.5	275.2	273.3	310.0	386.6	395.8	411.0	470.2	458.6
75°	481.8	373.2	256.5	249.5	252.5	307.6	456.1	385.3	398.1	449.8	471.9
77.5°	294.9	301.2	229.2	226.3	232.1	300.7	455.6	372.0	379.5	413.9	438.2
80°	197.3	244.3	208.3	208.9	213.0	275.2	409.1	351.2	356.9	391.1	416.2
82.5°	124.8	144.5	189.2	199.1	193.8	226.9	347.7	319.8	327.9	447.5	473.0
85°	63.3	90.5	164.2	191.5	174.7	159.1	282.1	280.4	284.4	322.8	337.2
87.5°	29.1	49.9	128.3	167.1	131.7	99.2	204.9	207.8	224.0	229.2	229.2
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)