

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: P200576

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200576
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-8030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 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: 10399 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

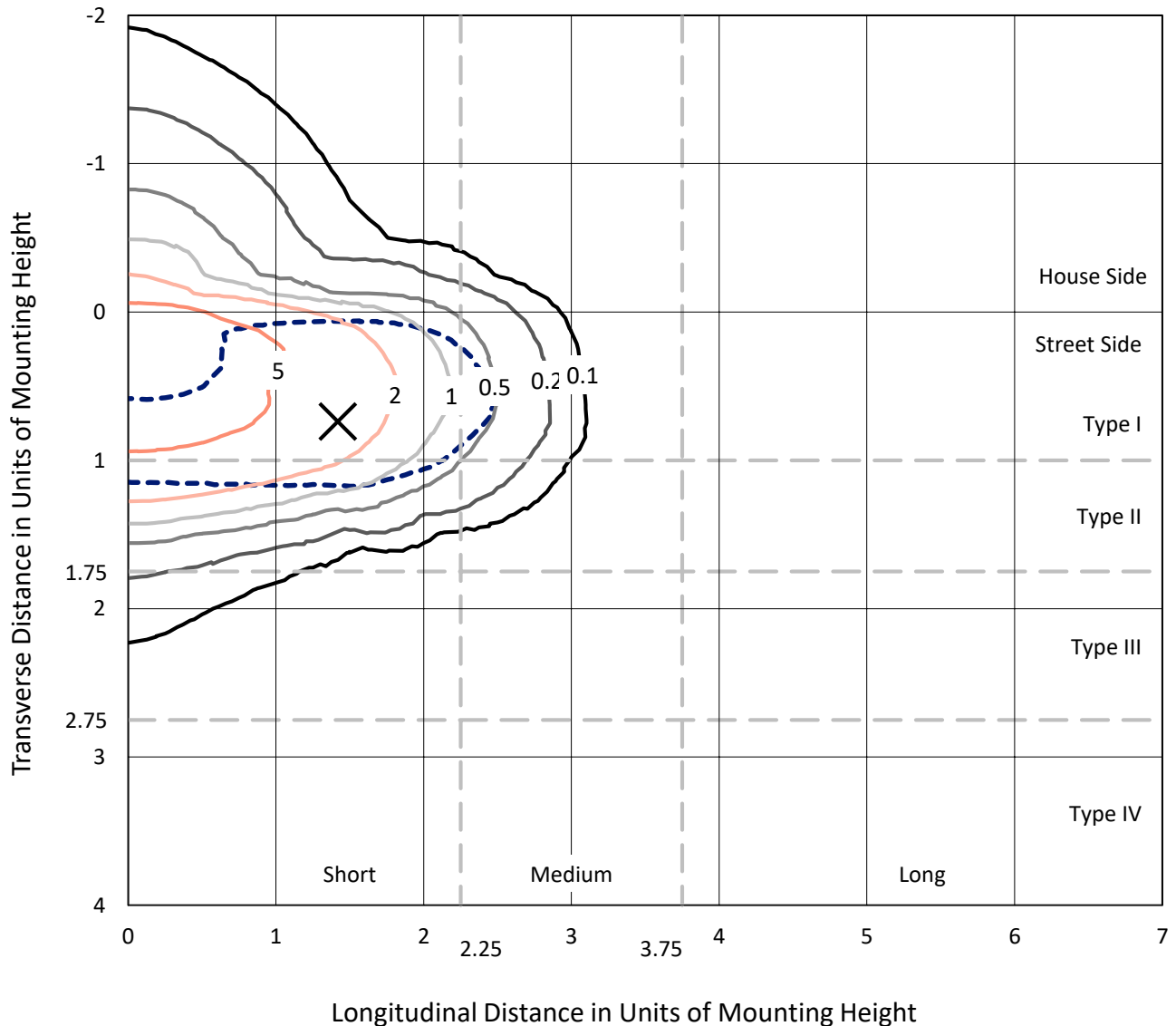
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

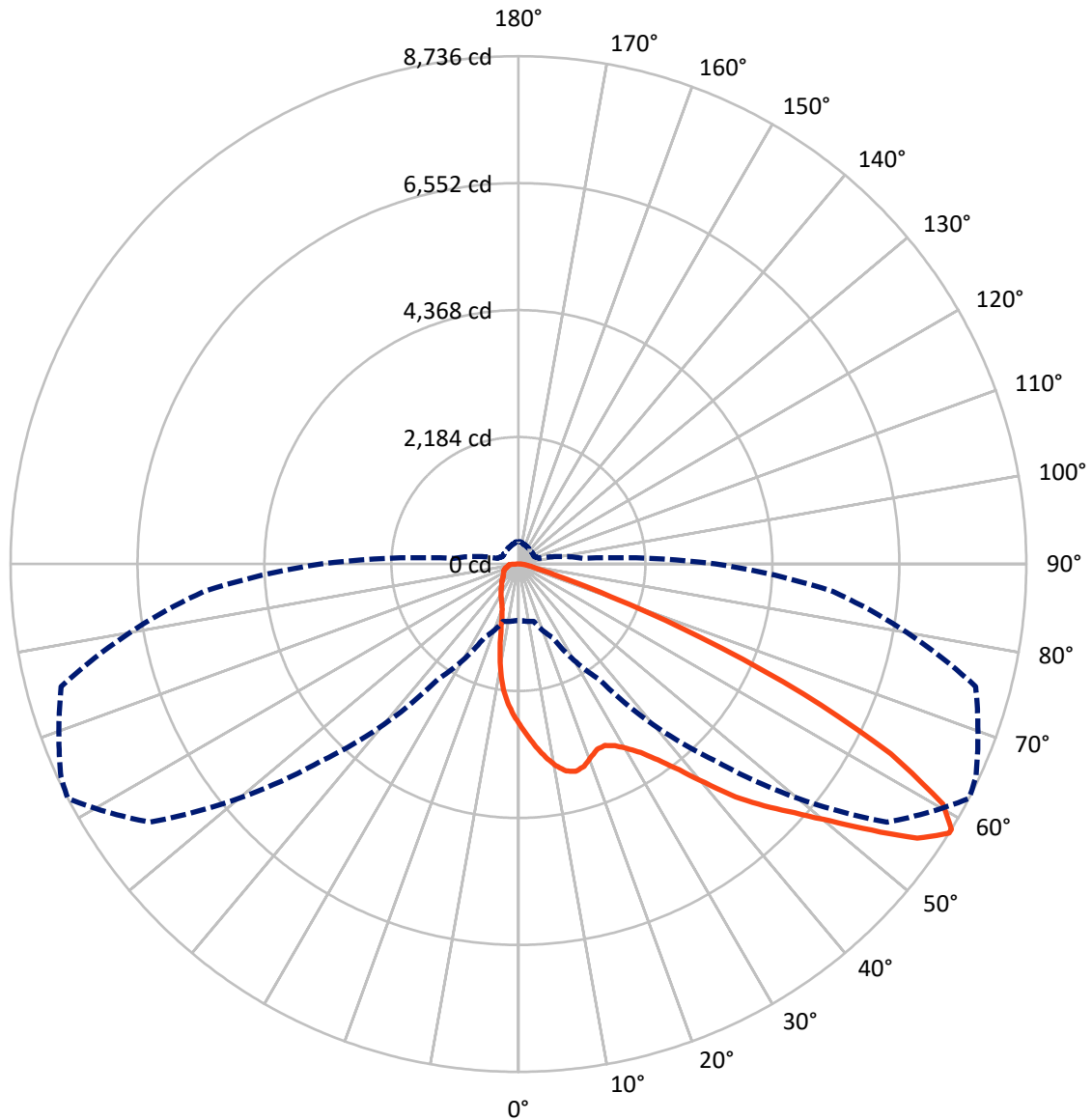
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 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	1585.9	0.0	1585.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	8813.1	0.0	8813.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	10399.0	0.0	10399.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	2.4
10°-20°	631.5	6.1
20°-30°	1020.8	9.8
30°-40°	1620.5	15.6
40°-50°	2371.2	22.8
50°-60°	2480.1	23.8
60°-70°	1465.2	14.1
70°-80°	412.8	4.0
80°-90°	149.9	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°	10399.0	100.0
0°-180°	10399.0	100.0



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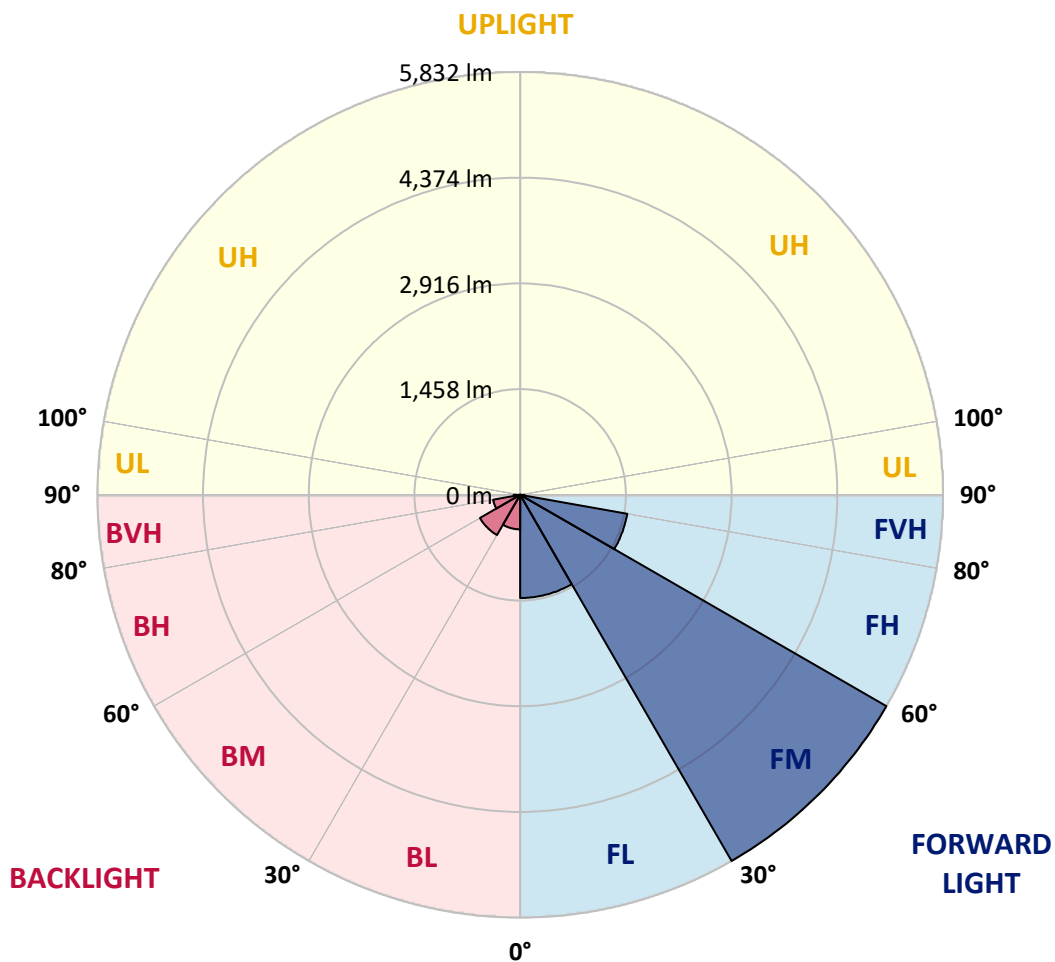
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1422.7	13.7			
FM	(30°-60°)	5831.7	56.1			
FH	(60°-80°)	1499.6	14.4			G1/1800
FVH	(80°-90°)	59.1	0.6			G1/100
BL	(0°-30°)	476.6	4.6	B1/500		
BM	(30°-60°)	640.1	6.2	B1/1000		
BH	(60°-80°)	378.4	3.6	B1/500		G1/500
BVH	(80°-90°)	90.7	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3
2.5°	3156.5	3131.0	3114.9	3100.7	3082.0	3042.4	2989.0	2955.2	2938.1	2879.8	2810.8
5°	3466.0	3443.4	3426.8	3407.7	3374.4	3312.2	3226.0	3157.5	3123.7	3007.1	2869.0
7.5°	3393.5	3402.8	3431.7	3482.1	3525.2	3516.9	3440.0	3352.8	3308.3	3146.2	2936.6
10°	2956.7	2972.8	3022.8	3140.8	3331.8	3527.7	3587.4	3527.2	3482.1	3283.8	3006.1
12.5°	2869.0	2868.5	2872.5	2903.8	3017.4	3293.1	3592.3	3653.0	3626.1	3415.0	3077.1
15°	2904.8	2905.8	2902.8	2916.0	2951.3	3060.5	3442.4	3701.5	3720.6	3547.2	3150.6
17.5°	2998.8	2996.3	2985.1	2985.1	2997.8	3040.4	3266.2	3656.4	3744.6	3664.3	3215.2
20°	3156.5	3145.2	3115.3	3087.9	3074.2	3097.2	3193.7	3552.6	3703.0	3766.6	3268.6
22.5°	3347.4	3338.6	3290.2	3231.4	3183.9	3183.4	3230.9	3462.0	3631.0	3863.1	3313.7
25°	3594.2	3580.0	3508.1	3414.0	3330.8	3299.0	3312.2	3457.6	3591.8	3967.9	3353.8
27.5°	3884.1	3858.2	3773.0	3637.3	3514.9	3450.8	3431.7	3537.4	3627.5	4097.6	3409.6
30°	4235.7	4205.9	4096.7	3919.9	3747.0	3641.7	3601.1	3679.0	3746.0	4255.8	3499.3
32.5°	4635.8	4592.7	4466.4	4271.5	4044.3	3883.6	3817.5	3866.0	3919.4	4446.3	3611.4
35°	5188.6	5137.2	4954.6	4685.7	4429.2	4208.3	4102.5	4137.8	4189.7	4730.3	3773.5
37.5°	5565.7	5542.7	5421.2	5168.6	4889.5	4635.3	4471.8	4492.3	4521.7	5085.3	3981.1
40°	5562.3	5571.6	5574.0	5576.5	5386.5	5143.1	4967.3	4945.8	4939.9	5475.1	4217.1
42.5°	5283.6	5321.8	5445.2	5695.5	5811.0	5699.4	5538.3	5476.1	5445.2	5934.4	4467.3
45°	4857.1	4877.7	5108.8	5597.5	6028.4	6250.3	6128.3	5932.5	5876.6	6356.5	4675.0
47.5°	4637.3	4659.8	4805.2	5338.0	6026.0	6695.4	6765.9	6392.8	6292.9	6723.8	4854.2
50°	4113.8	4160.8	4343.9	4886.5	5806.1	6900.1	7432.4	6941.2	6734.6	7081.3	5033.9
52.5°	3152.6	3225.0	3430.2	4144.2	5248.4	6798.7	7965.6	7606.2	7314.3	7451.5	5188.2
55°	1988.6	2042.5	2214.8	2926.8	4198.5	6271.3	8167.9	8325.5	8066.0	7802.1	5321.8
57.5°	1081.2	1105.2	1169.8	1615.9	2730.9	5105.4	7873.1	8734.9	8627.2	8099.8	5422.7
58°	967.6	983.8	1023.9	1400.5	2422.0	4786.6	7742.3	8736.4	8682.5	8143.4	5430.5
60°	717.9	709.5	673.8	799.2	1348.1	3306.8	6952.0	8386.7	8544.9	8196.7	5392.4
62.5°	630.7	610.6	537.7	529.3	655.7	1523.4	5319.4	7184.1	7557.7	7892.2	5160.2
65°	592.5	571.0	476.9	446.6	473.0	644.4	3133.5	5387.9	5856.6	6968.6	4566.8
67.5°	564.1	536.2	438.3	396.6	398.6	426.0	1256.0	3393.5	3920.9	5291.0	3552.1
70°	536.7	506.3	405.5	357.5	346.2	336.9	499.5	1698.7	2177.1	3342.1	2264.8
72.5°	507.3	477.4	376.6	326.6	304.6	273.7	326.1	694.9	970.5	1581.2	1027.3
75°	464.7	437.8	347.7	299.2	267.9	226.7	246.3	362.9	435.3	629.7	495.1
77.5°	412.3	390.3	315.4	276.7	237.5	184.1	189.5	251.7	279.1	360.4	294.3
80°	296.3	304.1	280.6	248.8	211.5	149.4	145.4	183.6	198.3	231.6	191.5
82.5°	208.1	212.5	232.1	203.2	174.8	117.5	107.2	129.3	138.1	152.3	103.3
85°	143.5	138.6	159.1	141.5	126.3	78.3	73.5	87.7	93.0	94.5	53.4
87.5°	86.2	86.2	92.1	75.9	68.1	40.6	39.7	49.9	53.4	50.9	29.4
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°	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3	2762.3
2.5°	2769.6	2734.9	2660.9	2601.7	2526.7	2448.9	2405.3	2358.8	2327.0	2303.9	2340.7
5°	2790.7	2719.7	2566.9	2422.0	2261.8	2095.3	1969.0	1851.5	1769.7	1718.8	1766.8
7.5°	2824.0	2714.8	2471.4	2223.6	1936.2	1659.0	1411.3	1256.0	1165.4	1120.9	1148.8
10°	2862.2	2706.9	2359.3	1954.8	1543.5	1194.3	1009.2	946.6	926.0	917.7	921.6
12.5°	2894.0	2690.3	2221.7	1629.7	1159.1	943.1	889.7	888.3	892.7	893.7	895.1
15°	2916.5	2665.8	2017.5	1290.8	927.0	859.4	856.4	865.3	873.6	877.0	879.0
17.5°	2931.7	2615.4	1786.8	1020.5	830.5	818.7	825.6	836.9	845.7	848.1	850.1
20°	2930.2	2541.4	1512.1	851.1	778.1	778.1	789.9	798.7	799.2	796.2	797.7
22.5°	2915.1	2440.1	1245.7	761.0	731.6	739.9	751.7	743.3	709.1	686.5	688.0
25°	2889.6	2319.1	1017.6	703.7	688.5	703.2	699.8	637.1	588.1	566.1	566.1
27.5°	2867.1	2176.1	842.2	653.7	645.4	663.5	602.8	546.0	525.4	515.1	511.7
30°	2850.9	2021.9	725.2	605.7	604.8	591.5	523.0	507.3	503.9	495.6	492.6
32.5°	2854.8	1865.7	650.3	563.6	567.0	506.3	484.8	488.2	485.3	476.5	472.5
35°	2887.2	1717.3	601.3	525.4	515.1	457.4	462.3	468.6	467.6	455.4	451.5
37.5°	2944.9	1576.8	569.0	493.6	449.5	432.9	440.7	450.5	448.1	439.7	436.8
40°	3005.7	1444.6	542.6	468.6	410.8	416.2	423.1	428.5	430.9	433.4	431.4
42.5°	3064.9	1306.5	510.2	443.2	394.7	400.6	403.5	408.9	422.1	431.4	430.9
45°	3100.2	1176.7	476.9	406.9	382.0	385.4	383.4	394.2	410.4	425.5	426.0
47.5°	3139.3	1075.8	450.5	373.6	369.7	372.2	366.3	377.1	391.7	410.4	412.3
50°	3186.8	1015.6	429.4	347.2	353.1	353.1	351.6	361.4	382.0	403.5	407.4
52.5°	3240.7	1003.8	411.8	328.1	336.4	335.9	337.4	352.1	374.6	395.7	399.1
55°	3306.3	1035.7	392.7	313.9	320.3	322.2	327.1	343.8	362.9	386.8	388.3
57.5°	3382.7	1100.3	377.5	302.6	305.6	311.9	319.8	334.9	355.5	382.0	383.4
58°	3395.4	1114.0	375.1	301.6	302.6	310.0	318.8	333.5	354.0	382.9	384.4
60°	3395.9	1159.6	369.7	297.2	291.4	303.6	313.4	328.1	351.6	386.4	389.8
62.5°	3275.5	1159.1	365.8	290.9	279.6	294.8	306.0	323.2	349.1	394.7	401.5
65°	2884.2	1053.3	347.2	281.1	270.3	287.0	299.7	319.8	356.0	430.9	435.3
67.5°	2256.0	863.3	312.4	267.4	258.1	279.1	295.8	319.3	363.3	439.2	442.2
70°	1491.6	645.9	274.2	251.7	245.3	269.8	297.7	335.9	355.0	421.6	413.8
72.5°	774.2	453.4	243.4	232.1	230.6	261.5	326.1	334.0	346.7	396.6	386.8
75°	406.4	314.9	216.4	210.6	213.0	259.5	384.9	325.1	335.9	379.5	398.1
77.5°	248.8	254.1	193.4	191.0	195.9	253.7	384.4	313.9	320.3	349.1	369.7
80°	166.5	206.2	175.8	176.3	179.7	232.1	345.2	296.3	301.2	330.0	351.1
82.5°	105.3	121.9	159.6	168.0	163.6	191.5	293.3	269.8	276.7	377.5	399.1
85°	53.4	76.4	138.6	161.6	147.4	134.2	238.0	236.5	239.9	272.3	284.5
87.5°	24.5	42.1	108.2	141.0	111.2	83.7	172.9	175.3	189.0	193.4	193.4
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)