

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: P270016

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270016
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-7027-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8946.2 lumens
Efficiency: N/A
Efficacy: 104.0 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

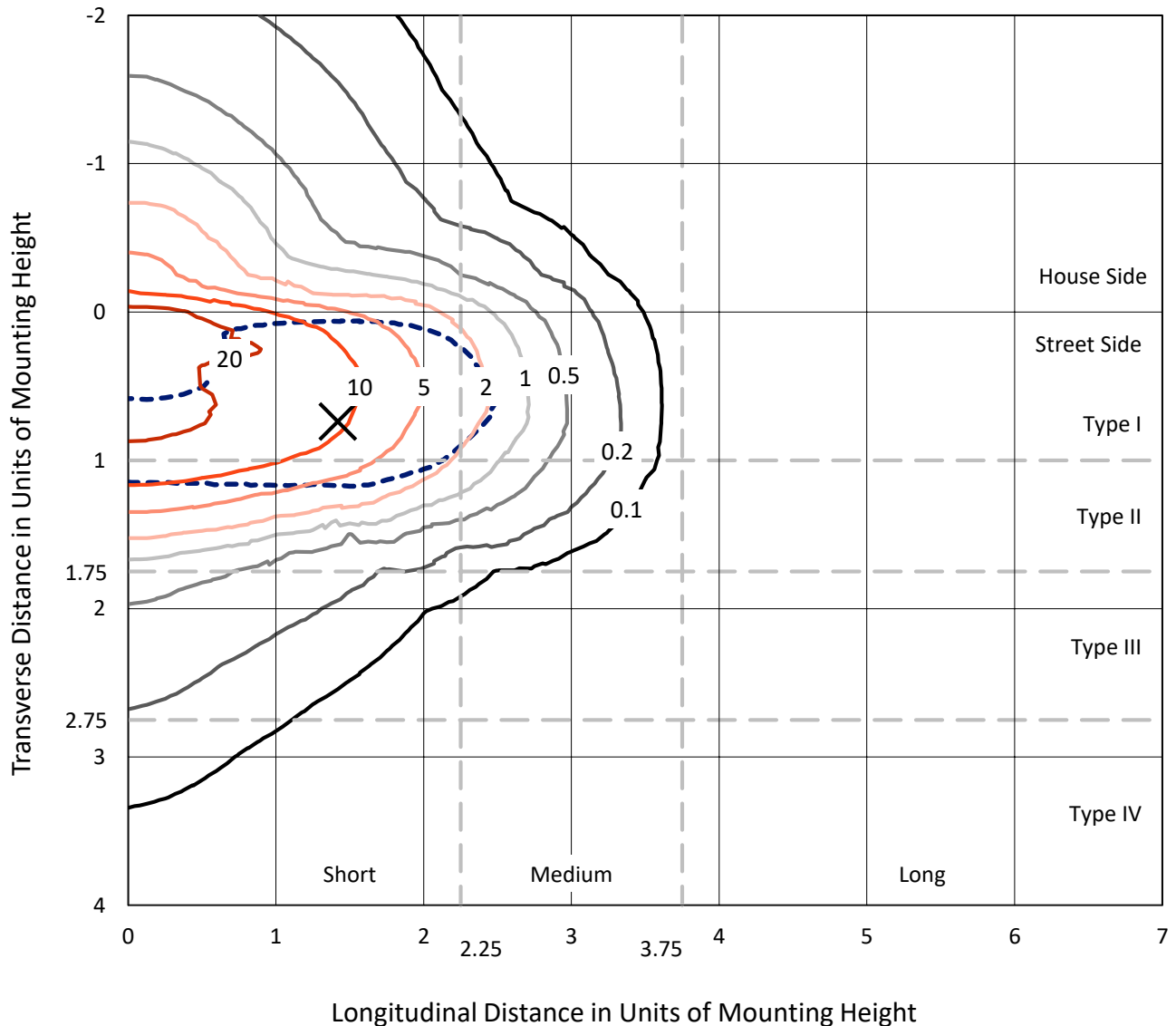
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P270016
 CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7027-800

Iso-Footcandle Lines of Horizontal Illumination

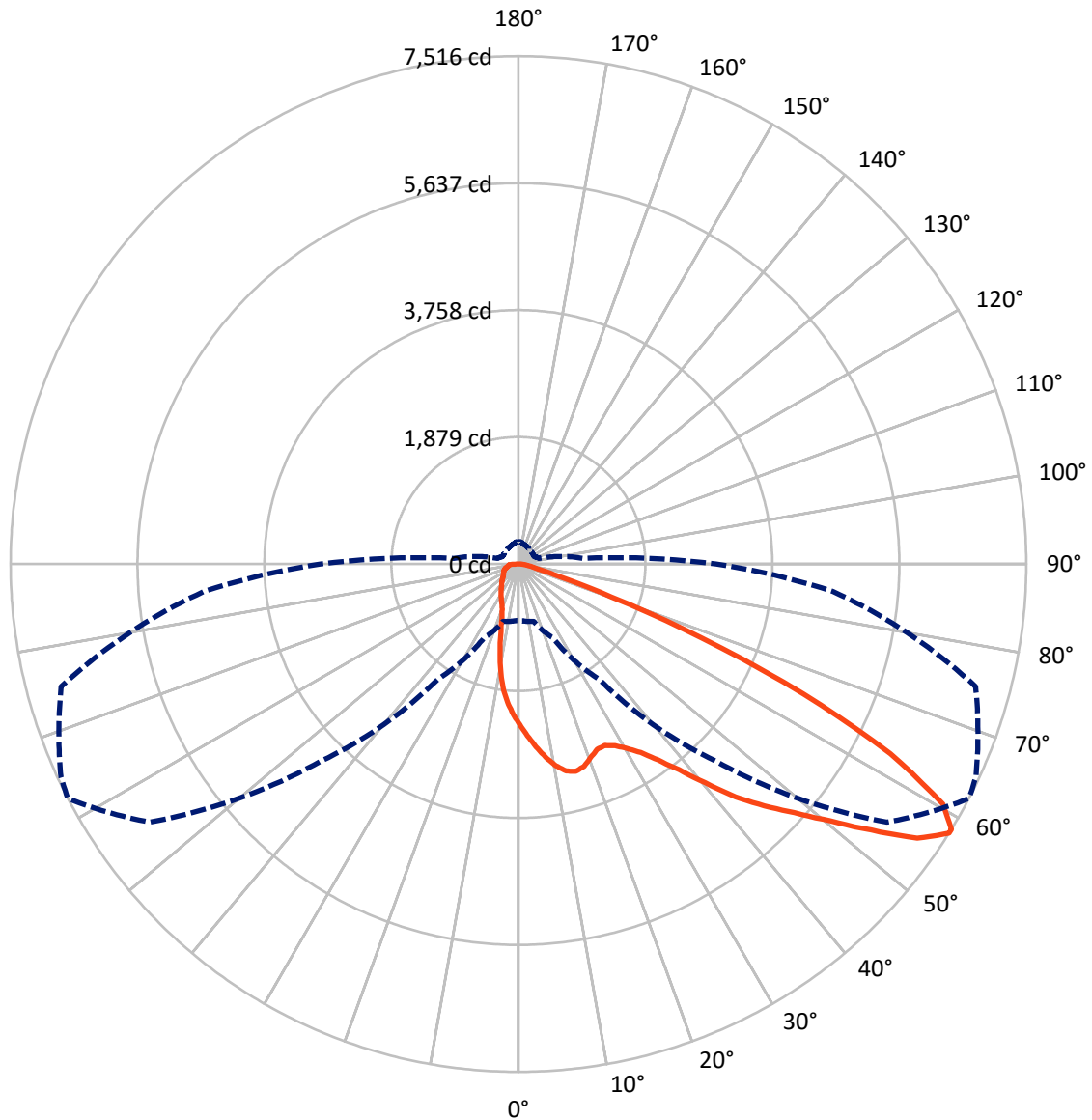
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P270016
CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7027-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P270016

CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1364.3	0.0	1364.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7581.9	0.0	7581.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	8946.2	0.0	8946.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	2.4
10°-20°	543.3	6.1
20°-30°	878.2	9.8
30°-40°	1394.1	15.6
40°-50°	2039.9	22.8
50°-60°	2133.6	23.8
60°-70°	1260.5	14.1
70°-80°	355.1	4.0
80°-90°	128.9	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°	8946.2	100.0
0°-180°	8946.2	100.0

Coefficient of Utilization



REPORT NUMBER: P270016

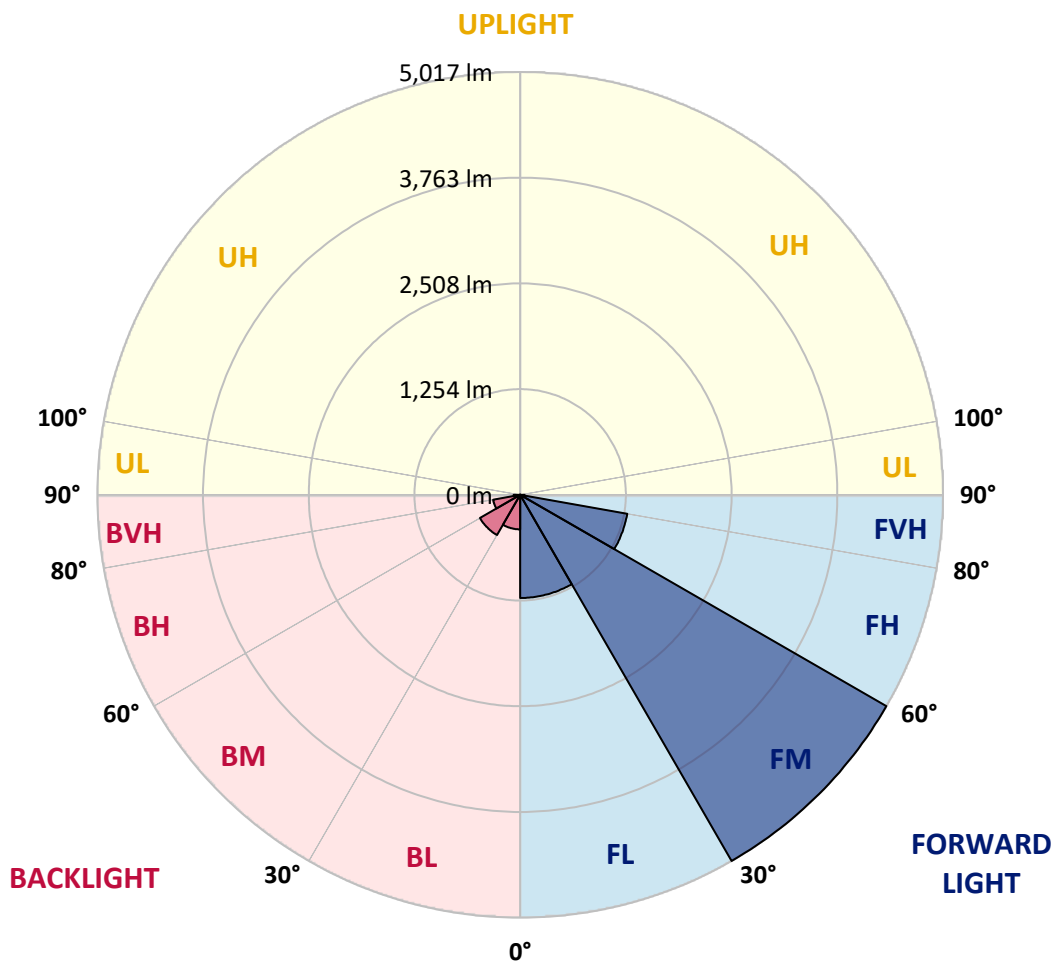
CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1224.0	13.7			
FM	(30°-60°)	5017.0	56.1			
FH	(60°-80°)	1290.1	14.4			G1/1800
FVH	(80°-90°)	50.9	0.6			G1/100
BL	(0°-30°)	410.1	4.6	B1/500		
BM	(30°-60°)	550.7	6.2	B1/1000		
BH	(60°-80°)	325.5	3.6	B1/500		G1/500
BVH	(80°-90°)	78.1	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





REPORT NUMBER: P270016

CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3
2.5°	2715.4	2693.6	2679.7	2667.4	2651.4	2617.3	2571.4	2542.4	2527.7	2477.4	2418.1
5°	2981.7	2962.4	2948.1	2931.6	2903.0	2849.5	2775.4	2716.4	2687.3	2586.9	2468.3
7.5°	2919.4	2927.3	2952.3	2995.7	3032.7	3025.5	2959.5	2884.5	2846.1	2706.7	2526.4
10°	2543.6	2557.6	2600.6	2702.0	2866.3	3034.8	3086.1	3034.5	2995.7	2825.0	2586.2
12.5°	2468.3	2467.9	2471.1	2498.1	2595.8	2833.1	3090.3	3142.7	3119.5	2937.9	2647.2
15°	2498.9	2499.9	2497.3	2508.6	2539.0	2632.9	2961.5	3184.4	3200.8	3051.6	2710.5
17.5°	2579.8	2577.7	2568.1	2568.1	2579.0	2615.7	2809.9	3145.7	3221.4	3152.3	2766.1
20°	2715.4	2705.9	2680.2	2656.5	2644.7	2664.6	2747.6	3056.4	3185.6	3240.4	2812.0
22.5°	2879.7	2872.2	2830.5	2780.0	2739.1	2738.7	2779.5	2978.4	3123.6	3323.4	2850.7
25°	3092.1	3079.8	3017.9	2937.1	2865.5	2838.0	2849.5	2974.6	3090.0	3413.5	2885.3
27.5°	3341.5	3319.1	3245.8	3129.2	3023.9	2968.7	2952.3	3043.3	3120.7	3525.2	2933.2
30°	3644.0	3618.3	3524.3	3372.2	3223.6	3133.0	3098.1	3165.0	3222.7	3661.2	3010.4
32.5°	3988.1	3951.0	3842.4	3674.7	3479.2	3341.1	3284.3	3326.0	3371.9	3825.2	3106.9
35°	4463.8	4419.5	4262.4	4031.1	3810.4	3620.3	3529.4	3559.8	3604.4	4069.4	3246.2
37.5°	4788.1	4768.4	4663.9	4446.5	4206.4	3987.8	3847.0	3864.7	3890.0	4374.8	3424.9
40°	4785.2	4793.1	4795.3	4797.4	4633.9	4424.6	4273.3	4254.8	4249.7	4710.3	3628.0
42.5°	4545.6	4578.3	4684.5	4899.7	4999.2	4903.2	4764.5	4711.0	4684.5	5105.3	3843.2
45°	4178.6	4196.3	4395.0	4815.5	5186.3	5377.1	5272.2	5103.7	5055.7	5468.5	4021.8
47.5°	3989.5	4008.7	4133.9	4592.2	5184.1	5760.0	5820.7	5499.7	5413.7	5784.5	4176.0
50°	3539.1	3579.6	3737.0	4203.9	4994.9	5936.1	6394.0	5971.6	5793.7	6091.9	4330.6
52.5°	2712.2	2774.4	2951.0	3565.3	4515.2	5849.0	6852.8	6543.6	6292.4	6410.5	4463.4
55°	1710.8	1757.2	1905.3	2517.9	3611.9	5395.2	7026.7	7162.5	6939.1	6712.0	4578.3
57.5°	930.1	950.8	1006.5	1390.1	2349.3	4392.2	6773.2	7514.6	7421.8	6968.2	4665.2
58°	832.4	846.4	880.9	1204.8	2083.6	4117.9	6660.8	7515.8	7469.4	7005.7	4671.8
60°	617.6	610.4	579.6	687.6	1159.7	2844.8	5980.7	7215.0	7351.1	7051.6	4638.9
62.5°	542.5	525.2	462.5	455.4	564.0	1310.5	4576.2	6180.3	6501.8	6789.6	4439.3
65°	509.8	491.3	410.3	384.1	406.9	554.3	2695.8	4635.3	5038.4	5995.1	3928.7
67.5°	485.4	461.3	377.0	341.3	343.0	366.5	1080.5	2919.4	3373.0	4551.8	3055.9
70°	461.6	435.6	348.8	307.5	297.9	289.9	429.7	1461.5	1873.0	2875.1	1948.3
72.5°	436.4	410.7	324.0	281.0	262.0	235.4	280.6	597.8	835.0	1360.3	883.8
75°	399.7	376.6	299.0	257.5	230.4	195.0	211.9	312.2	374.6	541.8	425.8
77.5°	354.7	335.7	271.3	238.1	204.4	158.5	163.0	216.5	240.1	310.1	253.2
80°	254.8	261.5	241.4	213.9	181.9	128.5	125.1	158.0	170.6	199.2	164.7
82.5°	179.0	182.8	199.7	174.8	150.3	101.1	92.3	111.2	118.8	131.1	88.9
85°	123.4	119.3	136.9	121.7	108.7	67.5	63.2	75.4	80.0	81.2	46.0
87.5°	74.1	74.1	79.2	65.2	58.6	34.9	34.1	42.9	46.0	43.7	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P270016

CATALOG NUMBER: GPC-AF-02-LED-E1-AFL-7027-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3
2.5°	2382.8	2352.8	2289.2	2238.1	2173.8	2106.7	2069.2	2029.2	2001.9	1982.1	2013.7
5°	2400.8	2339.7	2208.4	2083.6	1945.9	1802.5	1693.9	1592.9	1522.4	1478.7	1519.9
7.5°	2429.5	2335.6	2126.2	1913.0	1665.6	1427.2	1214.1	1080.5	1002.6	964.3	988.2
10°	2462.3	2328.8	2029.7	1681.6	1327.9	1027.5	868.2	814.4	796.5	789.5	792.8
12.5°	2489.7	2314.5	1911.4	1402.0	997.2	811.3	765.4	764.2	768.1	768.8	770.0
15°	2509.1	2293.5	1735.6	1110.5	797.4	739.3	736.8	744.3	751.5	754.4	756.2
17.5°	2522.1	2250.0	1537.2	878.0	714.5	704.5	710.3	719.9	727.5	729.7	731.3
20°	2520.9	2186.4	1300.8	732.2	669.3	669.3	679.5	687.2	687.6	685.0	686.2
22.5°	2507.8	2099.2	1071.7	654.7	629.4	636.4	646.6	639.6	609.9	590.6	592.0
25°	2485.9	1995.1	875.4	605.4	592.3	605.0	602.0	548.1	505.9	487.1	487.1
27.5°	2466.6	1872.1	724.7	562.3	555.2	570.9	518.6	469.8	452.0	443.1	440.2
30°	2452.6	1739.4	624.0	521.0	520.3	508.9	450.0	436.4	433.5	426.3	423.8
32.5°	2456.0	1605.0	559.5	484.8	487.8	435.6	417.1	420.0	417.5	409.8	406.6
35°	2483.9	1477.4	517.3	452.0	443.1	393.5	397.7	403.2	402.4	391.8	388.3
37.5°	2533.5	1356.5	489.5	424.7	386.7	372.3	379.2	387.6	385.5	378.2	375.9
40°	2585.7	1242.7	466.8	403.2	353.5	358.1	364.0	368.7	370.7	372.8	371.1
42.5°	2636.7	1124.0	438.9	381.2	339.5	344.6	347.1	351.7	363.2	371.1	370.7
45°	2667.1	1012.3	410.3	350.1	328.6	331.6	329.9	339.1	353.0	366.1	366.5
47.5°	2700.8	925.6	387.6	321.5	318.1	320.2	315.1	324.4	337.0	353.0	354.7
50°	2741.5	873.7	369.5	298.6	303.7	303.7	302.5	311.0	328.6	347.1	350.5
52.5°	2788.0	863.6	354.3	282.2	289.4	289.0	290.2	302.9	322.3	340.4	343.3
55°	2844.5	890.9	337.9	270.0	275.5	277.1	281.3	295.7	312.2	332.8	334.1
57.5°	2910.1	946.6	324.7	260.4	262.8	268.4	275.2	288.1	305.9	328.6	329.9
58°	2921.1	958.4	322.8	259.5	260.4	266.6	274.3	286.9	304.5	329.4	330.7
60°	2921.5	997.6	318.1	255.7	250.6	261.1	269.6	282.2	302.5	332.5	335.3
62.5°	2817.9	997.2	314.6	250.3	240.6	253.6	263.4	278.0	300.4	339.5	345.5
65°	2481.3	906.1	298.6	241.9	232.5	246.9	257.9	275.2	306.2	370.7	374.6
67.5°	1940.8	742.7	268.8	230.1	222.1	240.1	254.4	274.6	312.6	377.8	380.4
70°	1283.1	555.6	236.0	216.5	211.0	232.1	256.1	289.0	305.5	362.7	356.0
72.5°	666.1	390.1	209.3	199.7	198.4	224.9	280.6	287.3	298.2	341.3	332.8
75°	349.7	270.8	186.2	181.2	183.3	223.3	331.1	279.7	289.0	326.4	342.6
77.5°	213.9	218.6	166.4	164.3	168.5	218.2	330.7	270.0	275.5	300.4	318.1
80°	143.2	177.3	151.3	151.6	154.6	199.7	297.0	254.8	259.2	284.0	302.0
82.5°	90.5	104.9	137.4	144.4	140.8	164.7	252.3	232.1	238.1	324.7	343.3
85°	46.0	65.8	119.3	139.0	126.8	115.4	204.8	203.5	206.4	234.2	244.8
87.5°	21.1	36.2	93.2	121.4	95.6	72.0	148.7	150.8	162.7	166.4	166.4
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)