

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: P450948

Luminaire Tested: **GALN-SA1D-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7904 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

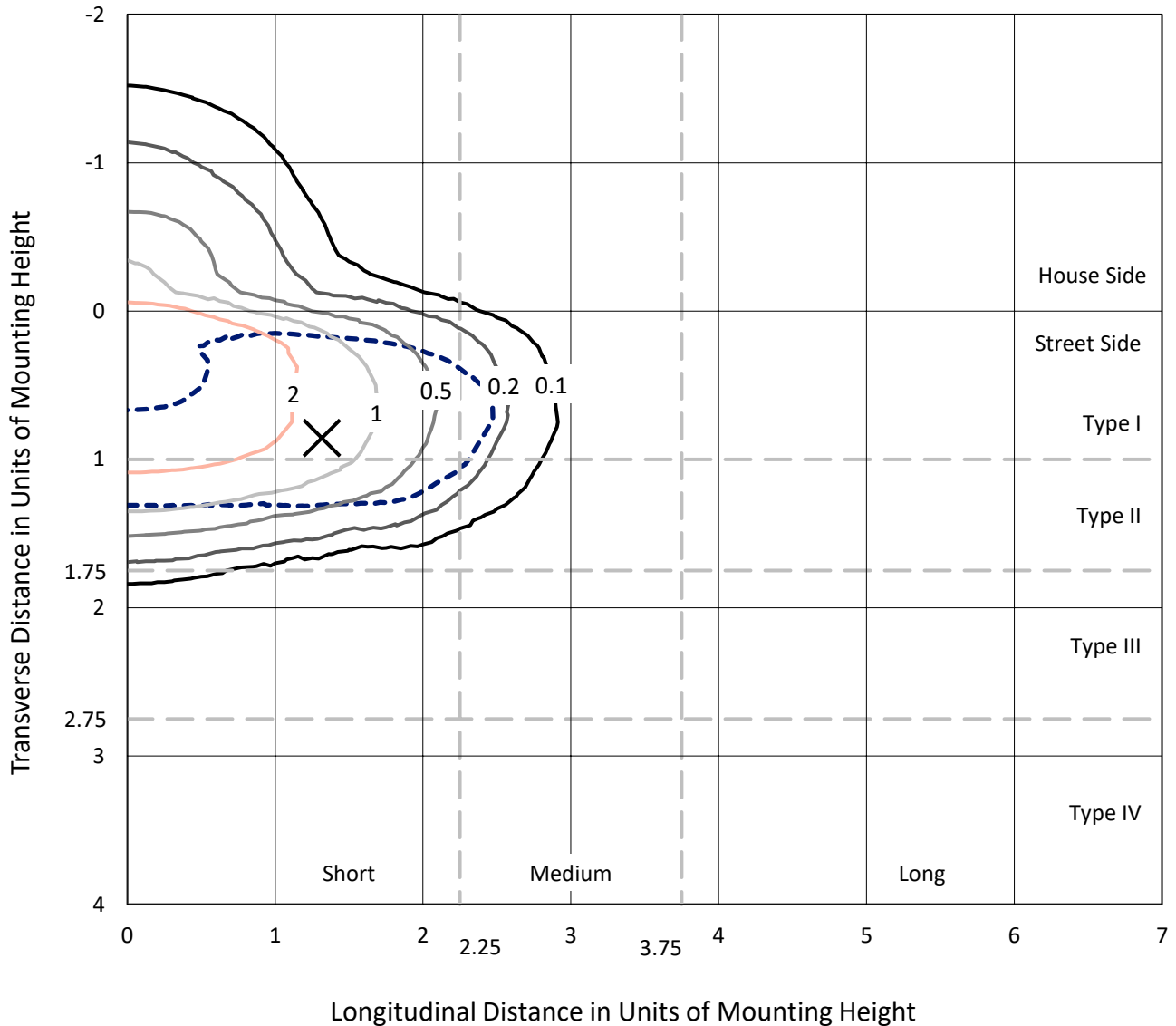
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

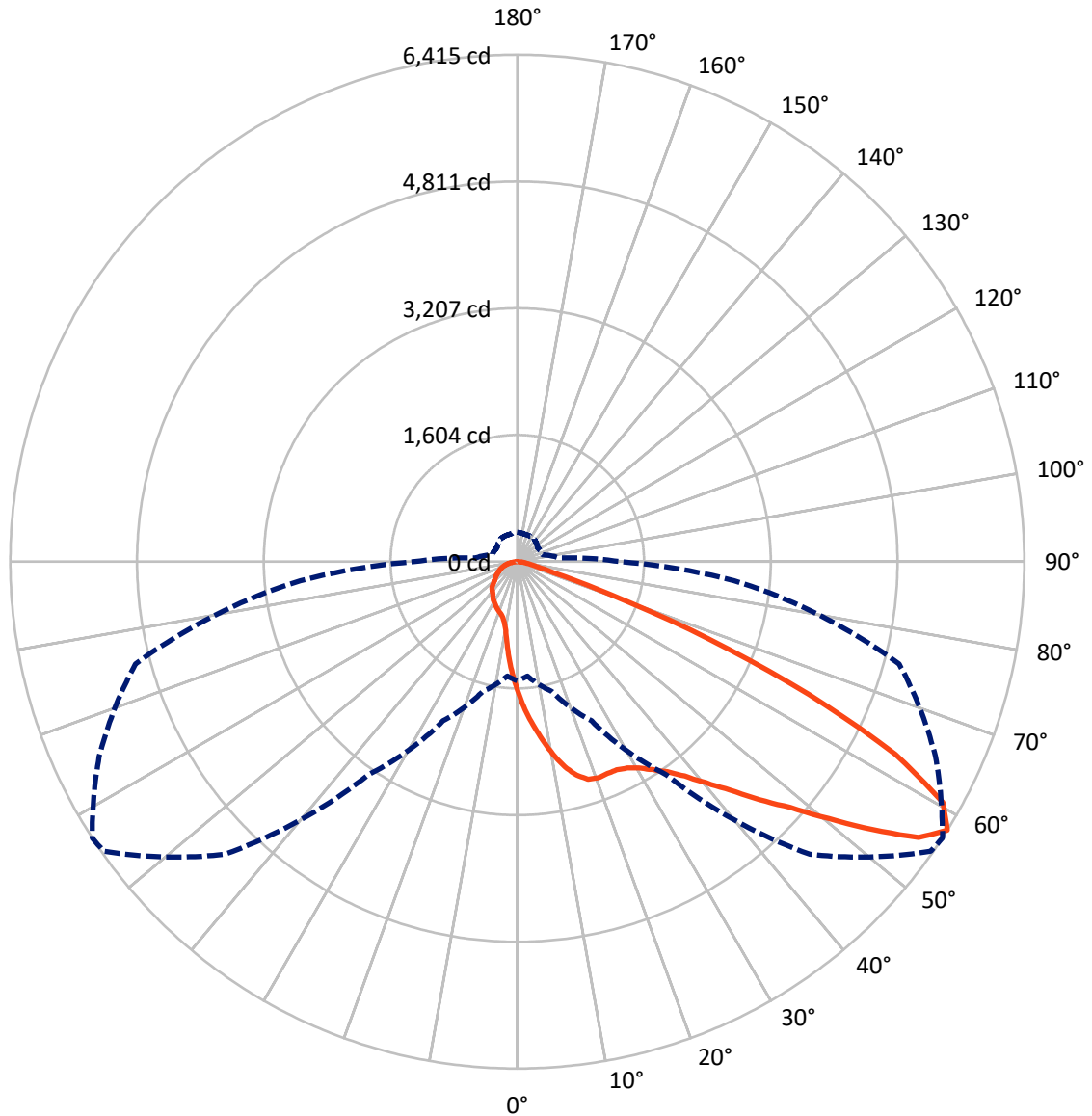
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1202.0	0.0	1202.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	6702.0	0.0	6702.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	7904.0	0.0	7904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	2.0
10°-20°	470.3	6.0
20°-30°	781.0	9.9
30°-40°	1176.4	14.9
40°-50°	1766.3	22.3
50°-60°	1979.8	25.0
60°-70°	1158.6	14.7
70°-80°	342.7	4.3
80°-90°	69.3	0.9
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°	7904.0	100.0
0°-180°	7904.0	100.0

Coefficient of Utilization



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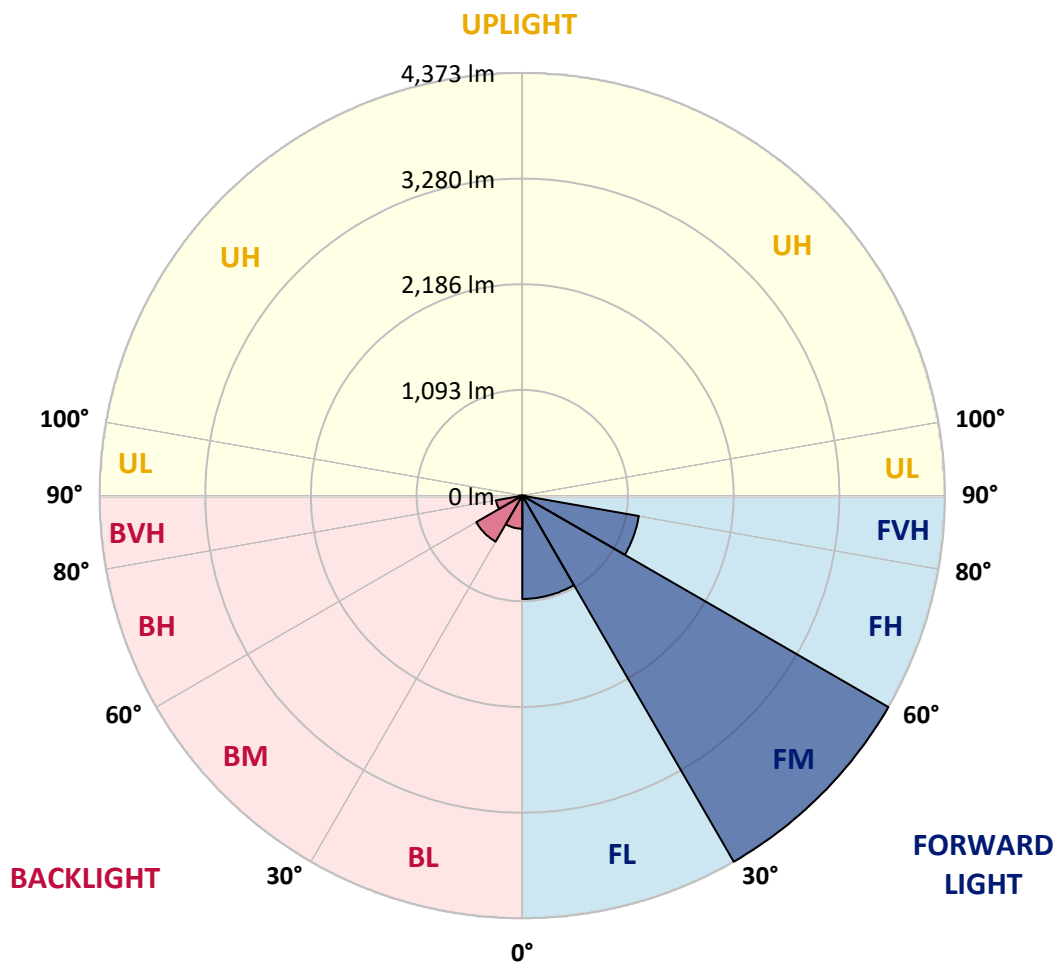
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1068.4	13.5			
FM	(30°-60°)	4372.8	55.3			
FH	(60°-80°)	1224.8	15.5			G1/1800
FVH	(80°-90°)	35.9	0.5			G1/100
BL	(0°-30°)	342.5	4.3	B1/500		
BM	(30°-60°)	549.6	7.0	B1/1000		
BH	(60°-80°)	276.6	3.5	B1/500		G1/500
BVH	(80°-90°)	33.3	0.4			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°	57°	65°	75°	85°
0°	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5
2.5°	2063.3	2040.8	2023.1	2007.5	1987.2	1932.2	1877.3	1876.4	1832.7	1765.2	1696.0
5°	2399.5	2369.2	2373.1	2324.7	2276.2	2196.6	2080.2	2074.2	1981.1	1854.8	1726.3
7.5°	2618.4	2618.9	2606.8	2579.1	2526.7	2436.3	2304.3	2274.5	2145.1	1953.4	1760.9
10°	2607.2	2618.9	2639.2	2663.0	2679.0	2634.5	2514.2	2477.8	2309.5	2072.9	1799.4
12.5°	2457.5	2475.7	2504.7	2564.4	2660.8	2734.4	2693.3	2663.9	2499.9	2191.8	1841.8
15°	2364.0	2374.9	2390.9	2431.1	2534.9	2711.0	2817.5	2801.9	2679.4	2326.4	1889.4
17.5°	2335.5	2346.3	2351.5	2376.2	2450.1	2630.6	2866.4	2894.0	2838.7	2450.1	1937.4
20°	2364.0	2369.2	2369.2	2383.9	2441.9	2583.4	2864.2	2920.0	2969.3	2598.5	1982.4
22.5°	2438.9	2441.1	2438.0	2443.2	2486.5	2596.4	2843.9	2913.1	3074.9	2724.4	2017.5
25°	2560.5	2563.9	2544.0	2531.9	2563.5	2653.5	2855.1	2918.7	3157.5	2844.7	2040.8
27.5°	2698.5	2702.8	2678.6	2650.5	2665.2	2724.0	2899.2	2956.3	3219.4	2963.3	2055.6
30°	2867.7	2869.4	2828.7	2795.0	2785.4	2829.1	2974.5	3027.7	3296.4	3103.0	2077.6
32.5°	3040.7	3053.7	3001.3	2953.8	2937.7	2951.2	3085.7	3137.2	3388.1	3253.2	2113.1
35°	3276.1	3278.2	3215.5	3157.5	3104.8	3122.1	3228.1	3265.3	3514.9	3426.6	2163.3
37.5°	3569.9	3589.8	3503.2	3395.1	3330.2	3305.1	3400.3	3440.9	3692.7	3639.5	2239.0
40°	3896.1	3903.4	3829.5	3762.0	3643.4	3570.7	3636.5	3680.6	3912.1	3893.5	2326.8
42.5°	4101.2	4117.2	4122.8	4115.9	4026.7	3904.7	3929.8	3950.6	4171.7	4131.9	2416.8
45°	4170.4	4194.2	4274.7	4445.1	4454.6	4334.4	4276.0	4295.9	4454.6	4372.4	2502.9
47.5°	4055.7	4096.4	4244.8	4594.4	4856.1	4865.2	4689.1	4645.4	4712.5	4571.9	2565.2
50°	3759.4	3768.0	3995.2	4501.4	5044.4	5372.7	5190.6	5109.3	4957.4	4719.4	2608.1
52.5°	3300.7	3310.7	3501.1	4069.1	4928.4	5727.5	5777.3	5631.9	5206.2	4834.1	2636.2
55°	2450.1	2507.7	2717.1	3266.1	4378.9	5694.2	6243.7	6161.0	5506.9	4924.9	2680.3
57.5°	1506.5	1453.7	1702.1	2222.1	3293.4	5236.5	6387.8	6414.6	5837.8	5001.1	2754.3
60°	693.1	703.5	806.0	1146.1	2007.5	4096.4	6016.5	6186.1	6020.9	4998.5	2772.9
62.5°	477.7	468.1	442.2	503.2	915.5	2590.8	5082.0	5369.3	5654.0	4843.2	2698.9
65°	427.0	417.5	367.3	350.5	420.5	1129.2	3694.5	4057.0	4760.5	4451.2	2514.6
67.5°	398.9	385.9	334.0	301.1	300.3	449.5	2178.4	2615.0	3530.9	3763.3	2178.9
70°	369.5	359.1	307.6	271.3	255.7	282.5	957.5	1253.4	2292.7	2711.9	1697.3
72.5°	340.1	328.0	281.7	242.7	222.4	211.6	366.9	477.2	1295.4	1625.9	1040.5
75°	297.2	291.2	251.8	219.8	197.7	170.9	232.8	265.7	619.6	746.8	522.2
77.5°	260.0	253.5	223.7	192.1	176.1	138.9	165.3	180.4	261.3	302.9	235.8
80°	190.4	196.9	188.6	169.6	157.1	109.0	111.2	123.7	155.3	171.8	144.1
82.5°	120.7	132.8	145.4	130.7	119.0	86.1	77.0	81.8	106.0	112.5	64.0
85°	50.6	51.5	84.4	79.6	67.9	51.1	46.3	48.9	56.7	59.3	29.9
87.5°	19.5	19.0	29.9	27.7	21.2	14.7	14.7	16.4	22.5	20.8	9.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5	1660.5
2.5°	1666.2	1635.4	1574.4	1498.7	1443.3	1381.0	1326.1	1286.7	1272.0	1265.1	1252.1
5°	1664.9	1604.3	1478.0	1345.6	1239.1	1130.1	1037.9	978.2	973.0	933.2	929.3
7.5°	1665.3	1572.7	1371.5	1176.8	1014.6	903.0	826.8	806.9	783.1	777.1	780.1
10°	1666.6	1532.5	1257.3	1009.8	852.8	779.6	751.1	743.3	744.2	746.8	747.2
12.5°	1668.3	1493.5	1138.8	883.1	761.9	731.6	728.6	735.5	742.9	748.5	749.8
15°	1670.5	1449.0	1023.2	780.9	716.5	713.9	723.8	735.5	745.9	754.1	755.4
17.5°	1667.9	1397.1	926.3	718.2	691.4	703.9	720.4	735.1	744.6	752.4	753.3
20°	1661.8	1339.1	832.9	674.1	675.8	696.1	713.9	727.7	738.1	742.0	745.0
22.5°	1638.5	1269.9	751.5	639.9	657.2	685.3	706.5	714.8	703.1	694.8	697.0
25°	1598.7	1179.9	675.8	612.2	640.3	670.2	691.8	671.9	662.4	658.9	660.7
27.5°	1548.9	1081.2	618.7	583.2	618.7	653.3	647.3	643.8	639.5	633.8	635.1
30°	1495.3	984.7	570.2	560.7	595.3	615.2	617.8	623.5	618.7	610.0	613.5
32.5°	1445.5	893.9	533.5	541.7	578.9	575.9	595.3	601.8	579.8	550.8	552.1
35°	1403.1	809.5	505.8	523.1	550.8	552.1	571.5	549.0	525.2	511.4	512.3
37.5°	1371.1	743.7	487.6	507.1	514.9	531.3	520.9	509.2	506.2	496.7	497.1
40°	1352.1	686.2	475.9	494.5	493.2	504.5	471.2	482.8	487.2	484.1	484.6
42.5°	1333.0	645.5	463.8	477.2	476.8	454.7	447.4	457.3	468.6	469.9	469.0
45°	1317.9	613.9	451.3	450.8	459.5	424.9	422.7	428.8	444.8	452.6	452.1
47.5°	1301.0	587.5	432.2	420.1	422.7	406.3	402.8	405.4	424.9	437.4	440.9
50°	1279.8	561.2	408.4	392.0	381.2	389.0	389.8	390.3	409.7	424.0	427.0
52.5°	1262.9	541.3	381.2	369.1	356.1	373.4	379.9	380.7	392.4	404.1	406.3
55°	1272.9	530.0	354.3	345.7	334.0	357.4	369.9	371.7	374.2	382.9	384.2
57.5°	1302.7	532.6	332.7	321.5	312.8	338.3	359.5	360.8	359.1	369.5	371.2
60°	1311.8	531.3	316.7	294.6	289.4	318.0	344.4	347.0	346.6	361.7	364.7
62.5°	1273.7	514.9	300.7	272.1	268.7	297.2	323.2	333.6	335.7	357.4	361.3
65°	1184.2	481.1	279.5	248.3	248.3	275.2	302.9	317.1	323.2	352.2	356.5
67.5°	1066.1	441.3	257.9	228.0	227.1	254.0	281.2	295.9	305.5	344.8	347.4
70°	884.8	387.7	231.0	205.9	205.9	230.2	254.8	272.6	286.4	331.0	331.0
72.5°	606.2	322.3	198.6	180.9	181.3	203.8	228.9	248.8	265.2	303.3	304.2
75°	383.3	251.8	163.1	154.0	155.8	177.0	202.9	223.7	256.6	299.8	301.1
77.5°	203.8	177.0	129.8	127.6	129.8	149.3	178.3	206.8	257.4	260.0	255.7
80°	132.0	125.5	102.5	98.2	99.1	120.3	158.8	196.4	206.8	209.4	199.9
82.5°	71.8	79.6	72.7	68.4	68.4	93.9	135.4	156.2	148.4	123.3	117.7
85°	30.7	37.2	37.6	32.9	31.6	58.0	90.9	85.2	79.2	75.7	74.8
87.5°	8.7	12.1	12.1	9.1	6.9	16.0	18.2	5.2	0.0	0.4	0.9
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)