

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: P451035

Luminaire Tested: **GALN-SA1D-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451035
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-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5811 lumens
Efficiency: N/A
Efficacy: 89.4 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

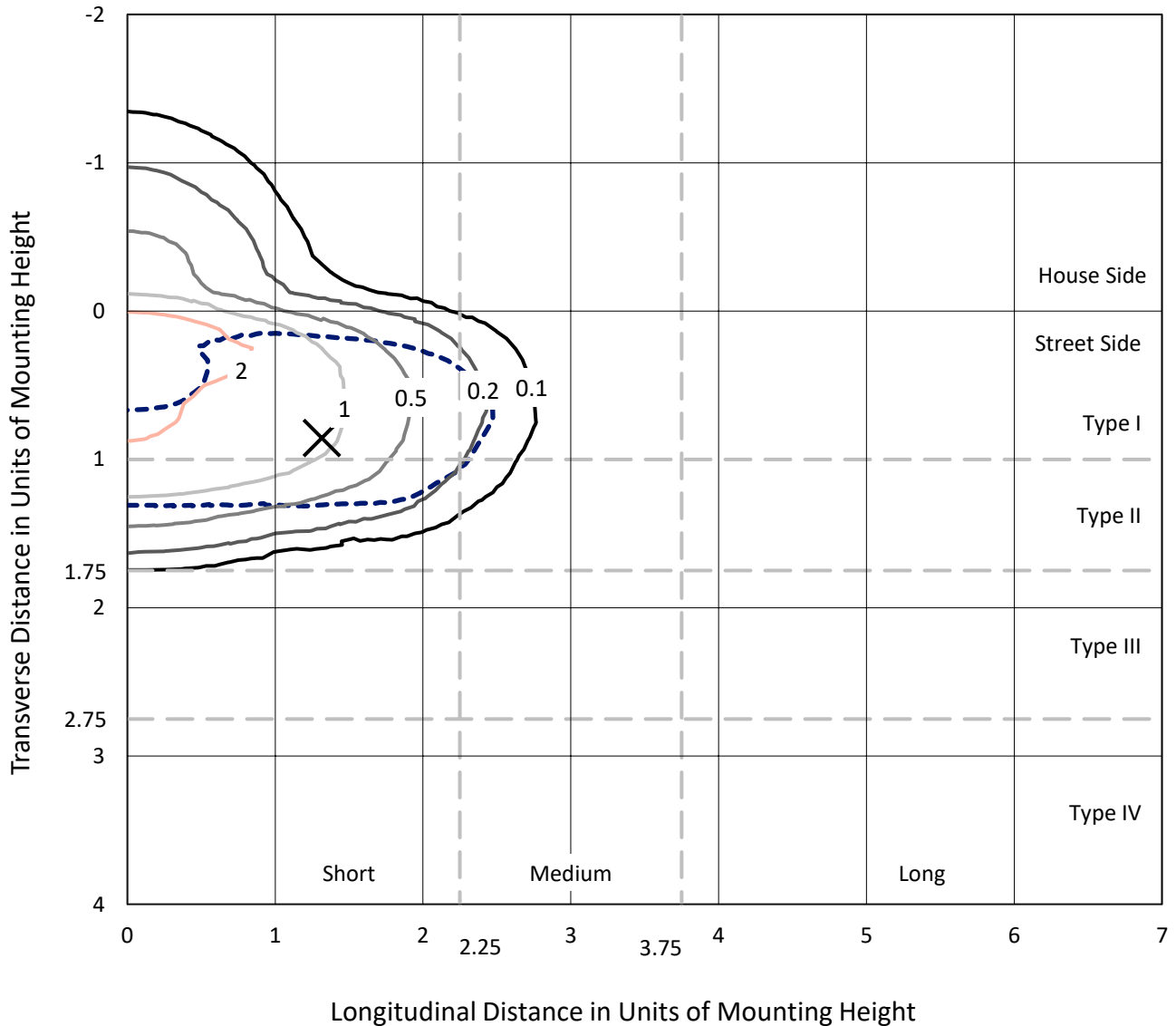
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

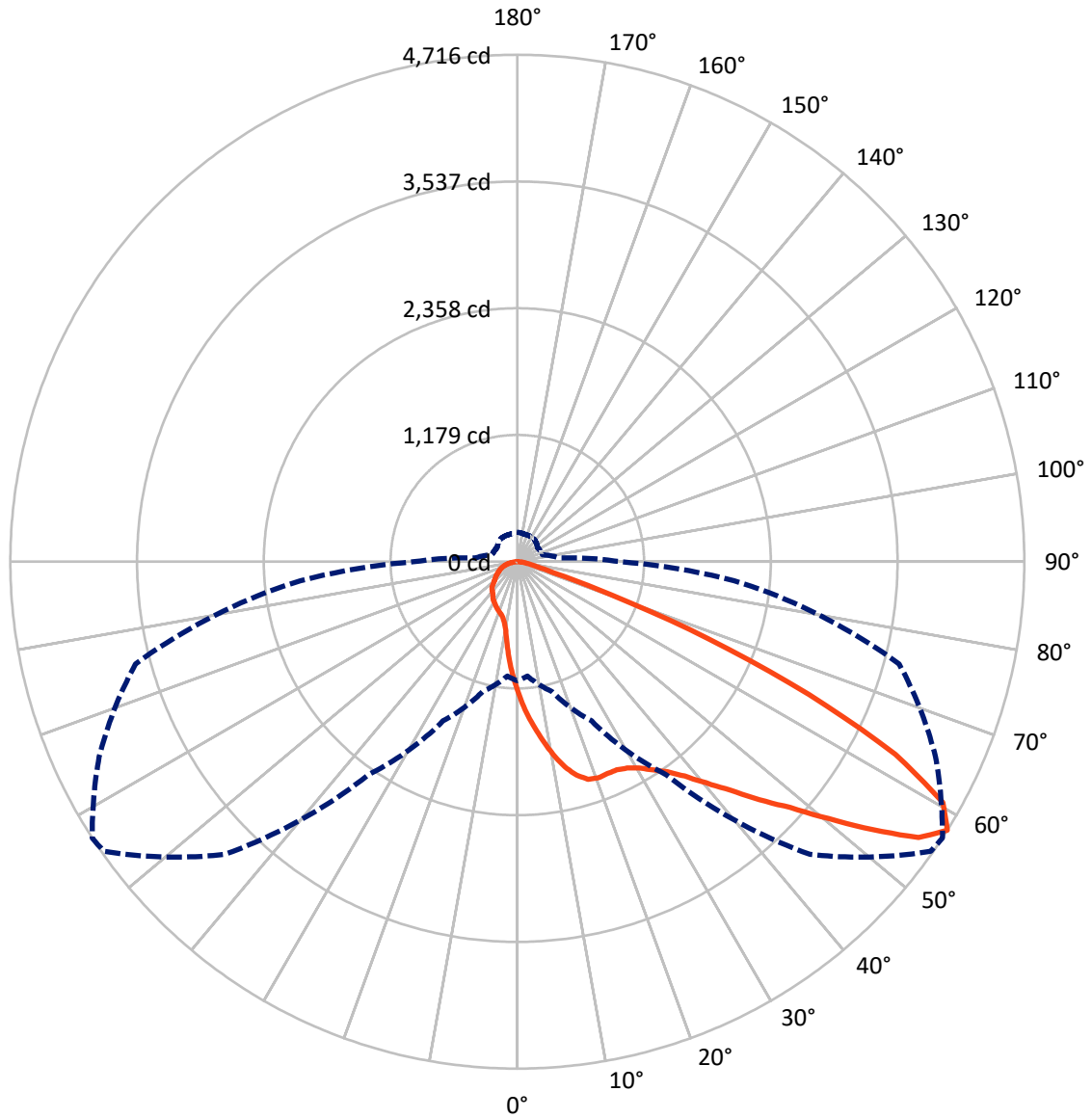
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	883.7	0.0	883.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	4927.3	0.0	4927.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	5811.0	0.0	5811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	2.0
10°-20°	345.8	6.0
20°-30°	574.2	9.9
30°-40°	864.9	14.9
40°-50°	1298.6	22.3
50°-60°	1455.5	25.0
60°-70°	851.8	14.7
70°-80°	252.0	4.3
80°-90°	50.9	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°	5811.0	100.0
0°-180°	5811.0	100.0

Coefficient of Utilization

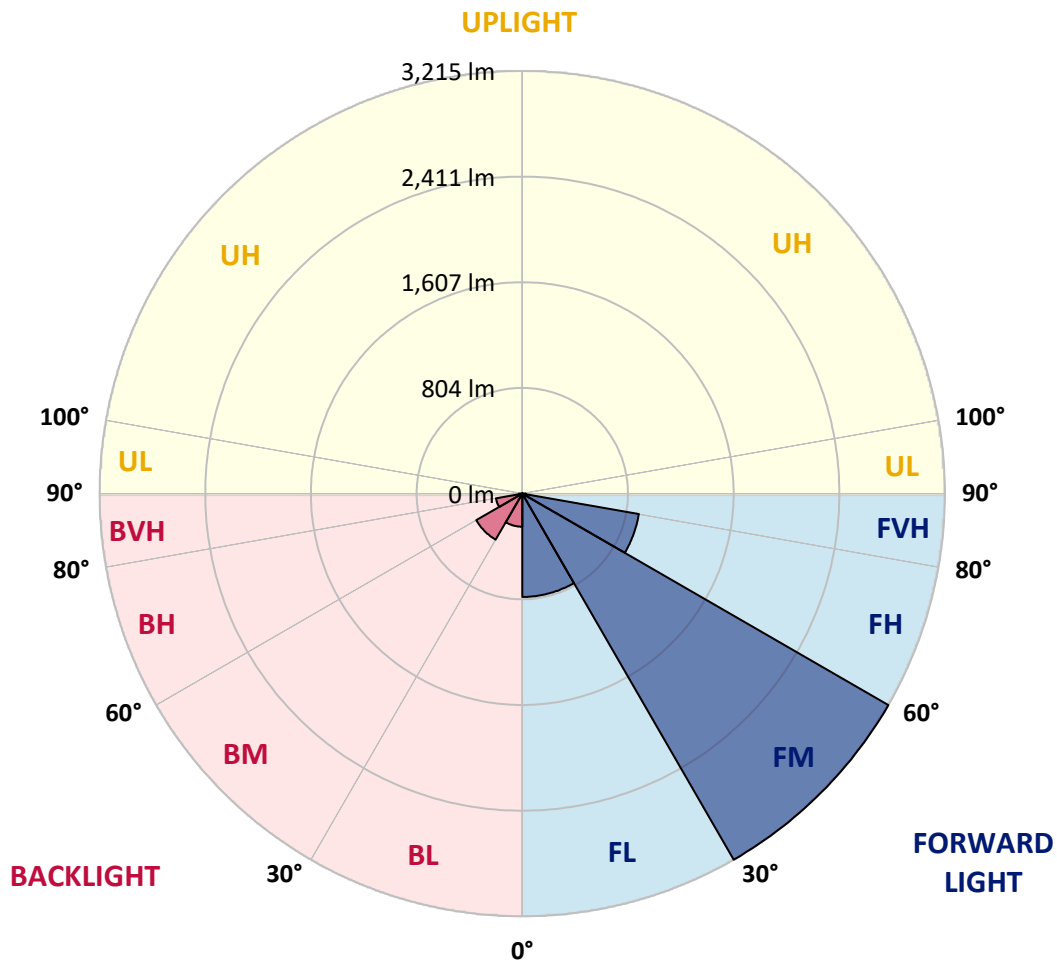


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	785.5	13.5			
FM (30°-60°)	3214.9	55.3			
FH (60°-80°)	900.5	15.5			G1/1800
FVH (80°-90°)	26.4	0.5			G1/100
BL (0°-30°)	251.8	4.3	B1/500		
BM (30°-60°)	404.1	7.0	B1/1000		
BH (60°-80°)	203.3	3.5	B1/500		G1/500
BVH (80°-90°)	24.5	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°	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1517.0	1500.4	1487.4	1475.9	1461.0	1420.6	1380.2	1379.6	1347.4	1297.8	1246.9
5°	1764.1	1741.9	1744.7	1709.1	1673.5	1614.9	1529.4	1524.9	1456.5	1363.6	1269.2
7.5°	1925.1	1925.4	1916.5	1896.1	1857.6	1791.2	1694.1	1672.2	1577.1	1436.2	1294.6
10°	1916.8	1925.4	1940.3	1957.8	1969.6	1936.8	1848.4	1821.7	1698.0	1524.0	1322.9
12.5°	1806.7	1820.1	1841.4	1885.3	1956.2	2010.3	1980.1	1958.5	1837.9	1611.4	1354.1
15°	1738.0	1746.0	1757.8	1787.3	1863.7	1993.1	2071.4	2059.9	1969.9	1710.4	1389.1
17.5°	1717.0	1725.0	1728.8	1746.9	1801.3	1934.0	2107.3	2127.7	2087.0	1801.3	1424.4
20°	1738.0	1741.9	1741.9	1752.7	1795.3	1899.3	2105.7	2146.8	2183.0	1910.4	1457.5
22.5°	1793.1	1794.7	1792.4	1796.2	1828.1	1908.9	2090.8	2141.7	2260.7	2003.0	1483.2
25°	1882.4	1885.0	1870.4	1861.5	1884.7	1950.8	2099.1	2145.8	2321.4	2091.4	1500.4
27.5°	1983.9	1987.1	1969.3	1948.6	1959.4	2002.7	2131.5	2173.5	2366.9	2178.6	1511.2
30°	2108.3	2109.6	2079.7	2054.9	2047.9	2080.0	2186.9	2226.0	2423.5	2281.3	1527.5
32.5°	2235.5	2245.1	2206.6	2171.6	2159.8	2169.7	2268.6	2306.5	2491.0	2391.7	1553.5
35°	2408.6	2410.2	2364.0	2321.4	2282.6	2295.3	2373.3	2400.6	2584.2	2519.3	1590.4
37.5°	2624.6	2639.2	2575.6	2496.0	2448.3	2429.9	2499.9	2529.8	2714.9	2675.8	1646.1
40°	2864.4	2869.8	2815.4	2765.8	2678.6	2625.2	2673.5	2706.0	2876.2	2862.5	1710.7
42.5°	3015.2	3026.9	3031.1	3026.0	2960.5	2870.8	2889.2	2904.5	3067.0	3037.7	1776.8
45°	3066.1	3083.6	3142.7	3268.0	3275.0	3186.6	3143.7	3158.3	3275.0	3214.6	1840.1
47.5°	2981.8	3011.7	3120.8	3377.8	3570.2	3576.9	3447.4	3415.3	3464.6	3361.2	1885.9
50°	2763.9	2770.2	2937.2	3309.4	3708.6	3950.0	3816.1	3756.3	3644.7	3469.7	1917.4
52.5°	2426.7	2434.0	2574.0	2991.6	3623.3	4210.9	4247.4	4140.6	3827.6	3554.0	1938.1
55°	1801.3	1843.6	1997.6	2401.3	3219.4	4186.4	4590.3	4529.6	4048.6	3620.8	1970.6
57.5°	1107.6	1068.8	1251.4	1633.7	2421.3	3849.8	4696.3	4716.0	4292.0	3676.8	2025.0
60°	509.6	517.2	592.6	842.6	1475.9	3011.7	4423.3	4548.0	4426.5	3674.9	2038.6
62.5°	351.2	344.2	325.1	369.9	673.1	1904.7	3736.3	3947.5	4156.8	3560.7	1984.2
65°	314.0	307.0	270.1	257.7	309.2	830.2	2716.2	2982.7	3499.9	3272.5	1848.7
67.5°	293.3	283.7	245.6	221.4	220.8	330.5	1601.6	1922.5	2595.9	2766.7	1601.9
70°	271.6	264.0	226.2	199.4	188.0	207.7	703.9	921.5	1685.6	1993.8	1247.9
72.5°	250.0	241.1	207.1	178.4	163.5	155.5	269.7	350.9	952.4	1195.4	765.0
75°	218.5	214.1	185.1	161.6	145.4	125.6	171.1	195.3	455.5	549.0	383.9
77.5°	191.2	186.4	164.5	141.2	129.5	102.1	121.5	132.6	192.1	222.7	173.4
80°	140.0	144.7	138.7	124.7	115.5	80.2	81.7	91.0	114.2	126.3	105.9
82.5°	88.7	97.7	106.9	96.1	87.5	63.3	56.6	60.1	77.9	82.7	47.1
85°	37.2	37.9	62.0	58.5	49.9	37.5	34.0	35.9	41.7	43.6	21.9
87.5°	14.3	14.0	21.9	20.4	15.6	10.8	10.8	12.1	16.5	15.3	7.0
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°	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1225.0	1202.4	1157.5	1101.9	1061.1	1015.3	974.9	946.0	935.2	930.1	920.5
5°	1224.0	1179.5	1086.6	989.3	911.0	830.8	763.1	719.2	715.4	686.1	683.3
7.5°	1224.3	1156.3	1008.3	865.2	745.9	663.9	607.9	593.2	575.7	571.3	573.5
10°	1225.3	1126.7	924.4	742.4	627.0	573.2	552.2	546.5	547.1	549.0	549.3
12.5°	1226.6	1098.0	837.2	649.2	560.2	537.9	535.7	540.8	546.2	550.3	551.2
15°	1228.1	1065.3	752.3	574.2	526.8	524.8	532.2	540.8	548.4	554.4	555.4
17.5°	1226.2	1027.1	681.0	528.0	508.3	517.5	529.6	540.4	547.4	553.2	553.8
20°	1221.8	984.5	612.3	495.6	496.9	511.8	524.8	535.0	542.7	545.5	547.7
22.5°	1204.6	933.6	552.5	470.5	483.2	503.9	519.4	525.5	516.9	510.9	512.4
25°	1175.3	867.4	496.9	450.1	470.8	492.7	508.6	494.0	487.0	484.4	485.7
27.5°	1138.8	794.9	454.9	428.8	454.9	480.3	475.9	473.3	470.1	466.0	467.0
30°	1099.3	724.0	419.2	412.2	437.7	452.3	454.2	458.4	454.9	448.5	451.0
32.5°	1062.7	657.2	392.2	398.2	425.6	423.4	437.7	442.5	426.2	404.9	405.9
35°	1031.6	595.1	371.8	384.6	404.9	405.9	420.2	403.7	386.2	376.0	376.6
37.5°	1008.0	546.8	358.5	372.8	378.5	390.6	383.0	374.4	372.2	365.2	365.5
40°	994.0	504.5	349.9	363.6	362.6	370.9	346.4	355.0	358.2	355.9	356.3
42.5°	980.0	474.6	341.0	350.9	350.5	334.3	328.9	336.2	344.5	345.4	344.8
45°	968.9	451.4	331.8	331.4	337.8	312.4	310.8	315.2	327.0	332.7	332.4
47.5°	956.5	432.0	317.8	308.9	310.8	298.7	296.1	298.0	312.4	321.6	324.1
50°	940.9	412.6	300.3	288.2	280.2	286.0	286.6	286.9	301.2	311.7	314.0
52.5°	928.5	397.9	280.2	271.3	261.8	274.5	279.3	279.9	288.5	297.1	298.7
55°	935.8	389.7	260.5	254.2	245.6	262.7	272.0	273.2	275.1	281.5	282.5
57.5°	957.8	391.6	244.6	236.3	230.0	248.7	264.3	265.3	264.0	271.6	272.9
60°	964.4	390.6	232.8	216.6	212.8	233.8	253.2	255.1	254.8	265.9	268.1
62.5°	936.5	378.5	221.1	200.1	197.5	218.5	237.6	245.2	246.8	262.7	265.6
65°	870.6	353.7	205.5	182.6	182.6	202.3	222.7	233.2	237.6	258.9	262.1
67.5°	783.8	324.5	189.6	167.6	167.0	186.7	206.8	217.6	224.6	253.5	255.4
70°	650.5	285.0	169.9	151.4	151.4	169.2	187.4	200.4	210.6	243.3	243.3
72.5°	445.6	237.0	146.0	133.0	133.3	149.8	168.3	182.9	195.0	223.0	223.6
75°	281.8	185.1	119.9	113.2	114.5	130.1	149.2	164.5	188.6	220.4	221.4
77.5°	149.8	130.1	95.4	93.8	95.4	109.7	131.1	152.0	189.3	191.2	188.0
80°	97.0	92.2	75.4	72.2	72.8	88.4	116.7	144.4	152.0	154.0	147.0
82.5°	52.8	58.5	53.4	50.3	50.3	69.0	99.6	114.8	109.1	90.7	86.5
85°	22.6	27.4	27.7	24.2	23.2	42.6	66.8	62.7	58.2	55.7	55.0
87.5°	6.4	8.9	8.9	6.7	5.1	11.8	13.4	3.8	0.0	0.3	0.6
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)