

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: P450658

Luminaire Tested: **GALN-SA1C-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450658
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-SA1C-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6008 lumens
Efficiency: N/A
Efficacy: 105.4 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

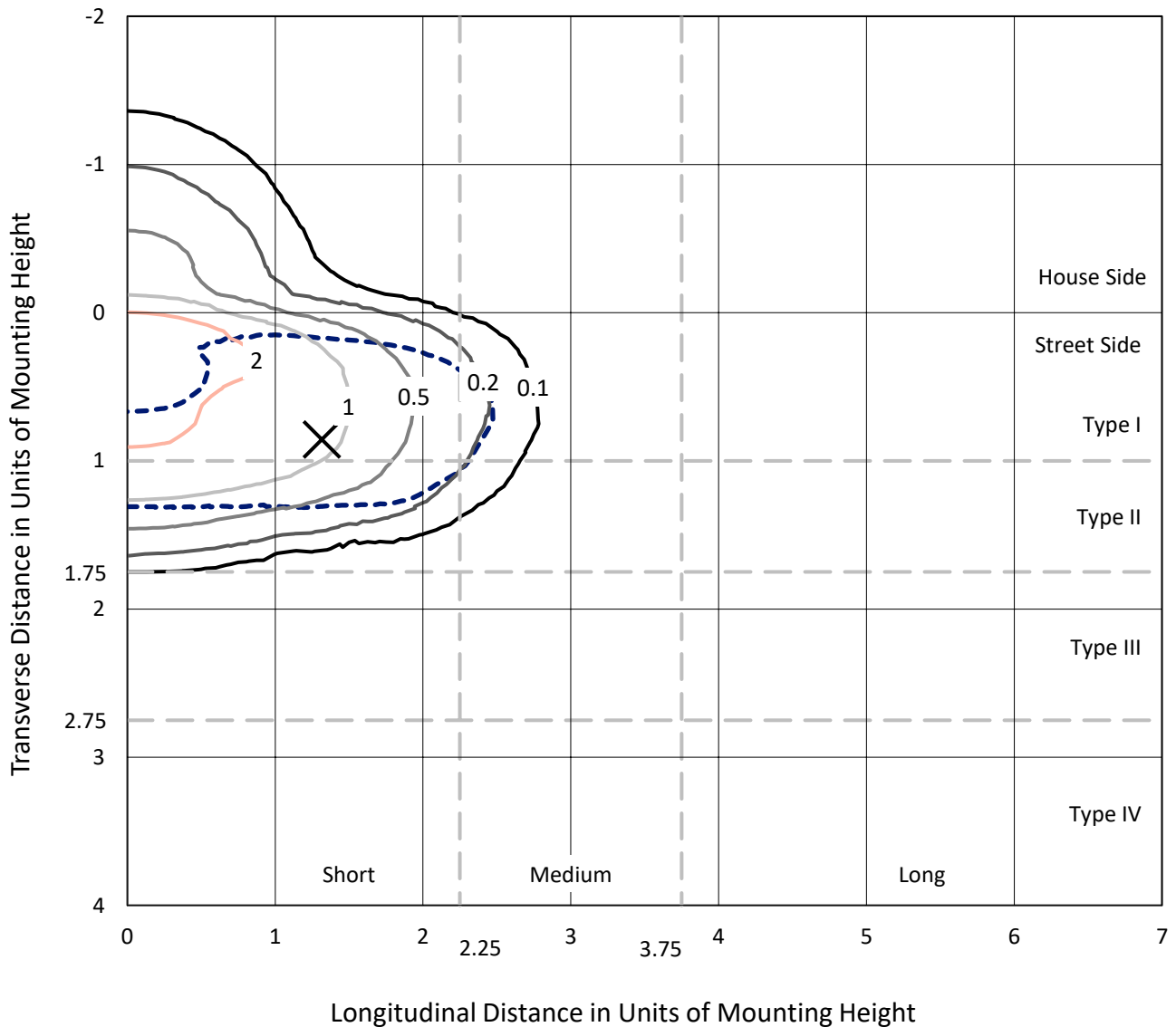
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

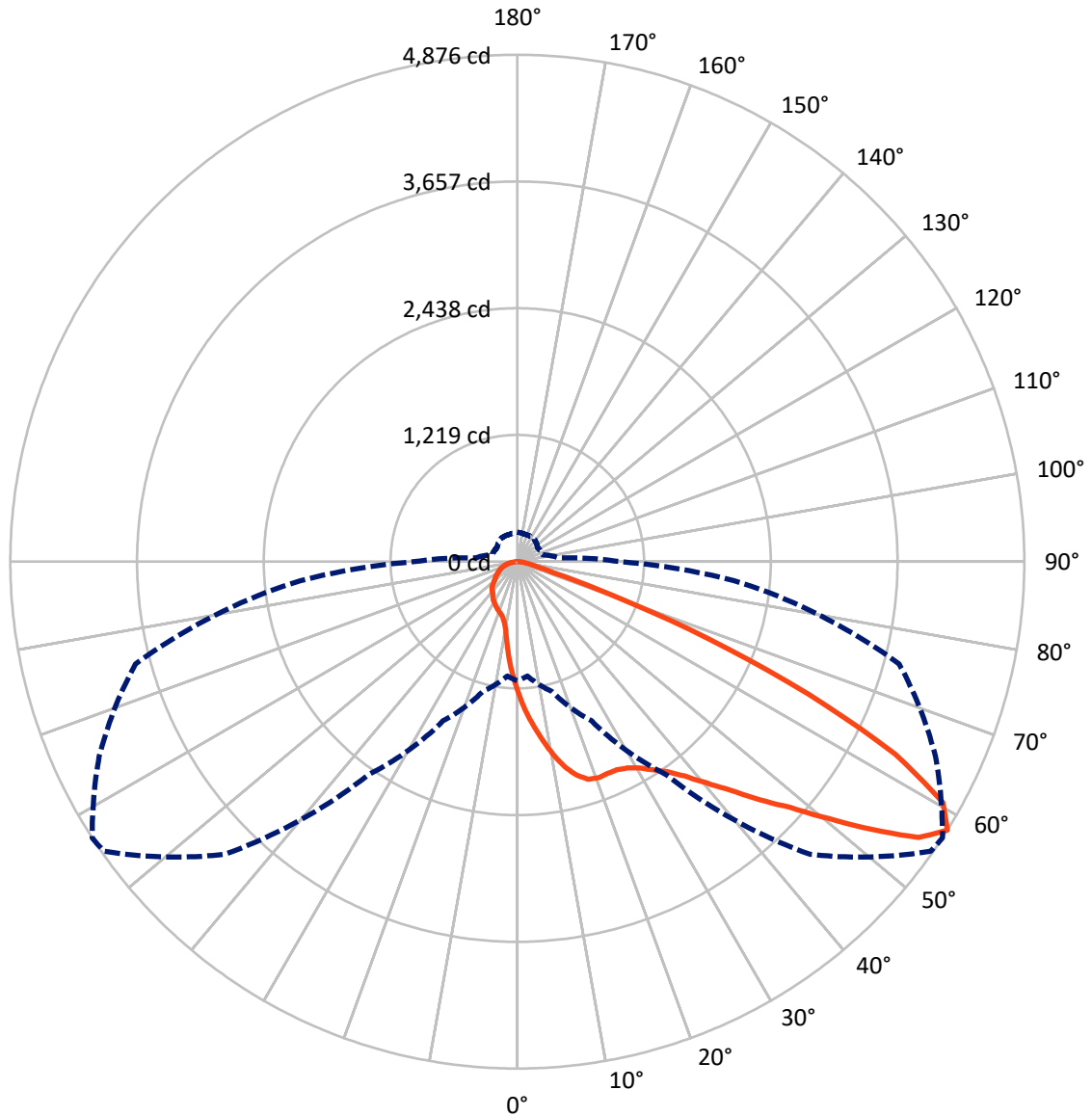
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	913.7	0.0	913.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	5094.4	0.0	5094.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	6008.0	0.0	6008.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	2.0
10°-20°	357.5	6.0
20°-30°	593.7	9.9
30°-40°	894.2	14.9
40°-50°	1342.6	22.3
50°-60°	1504.9	25.0
60°-70°	880.7	14.7
70°-80°	260.5	4.3
80°-90°	52.7	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°	6008.0	100.0
0°-180°	6008.0	100.0



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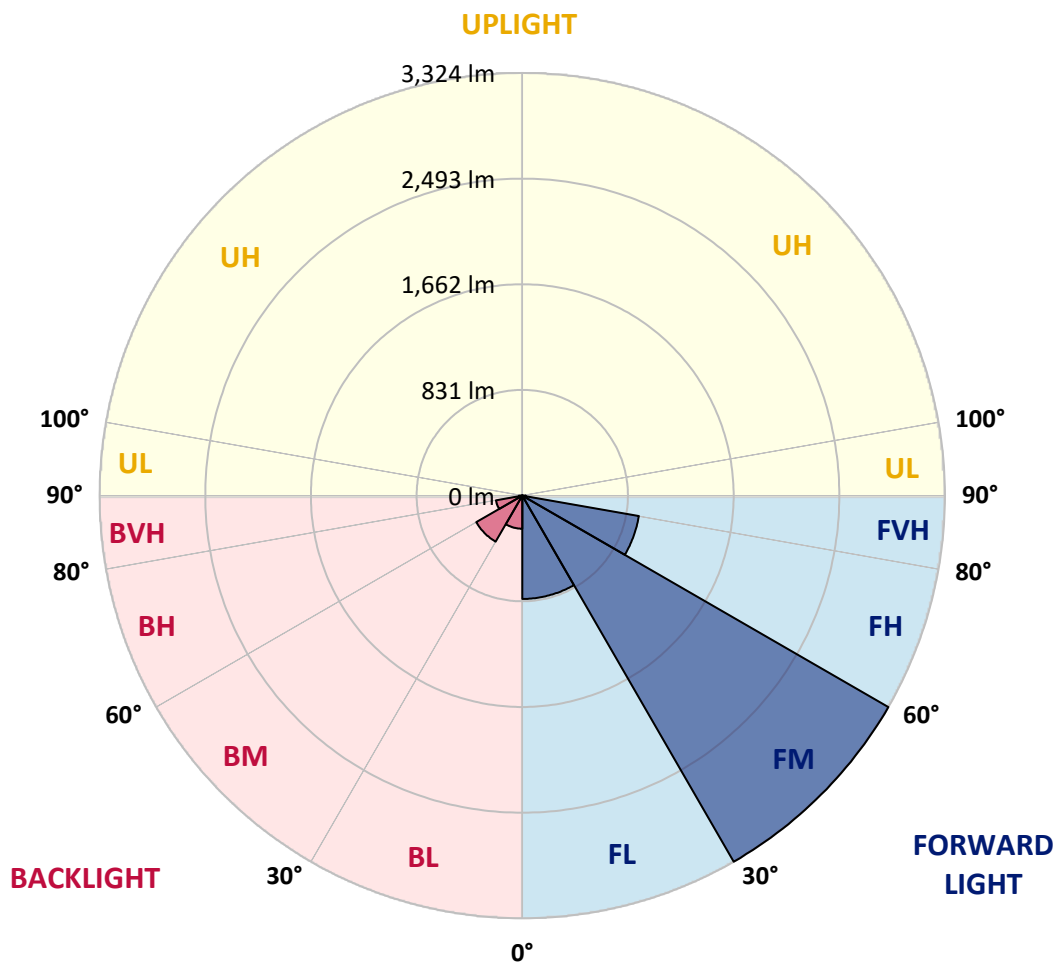
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	812.1	13.5			
FM	(30°-60°)	3323.9	55.3			
FH	(60°-80°)	931.0	15.5			G1/1800
FVH	(80°-90°)	27.3	0.5			G1/100
BL	(0°-30°)	260.3	4.3	B1/500		
BM	(30°-60°)	417.8	7.0	B1/1000		
BH	(60°-80°)	210.2	3.5	B1/500		G1/500
BVH	(80°-90°)	25.3	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°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2
2.5°	1568.4	1551.3	1537.8	1526.0	1510.5	1468.7	1427.0	1426.3	1393.1	1341.8	1289.2
5°	1823.9	1800.9	1803.9	1767.0	1730.2	1669.7	1581.2	1576.6	1505.9	1409.9	1312.2
7.5°	1990.3	1990.7	1981.5	1960.4	1920.6	1851.9	1751.6	1728.9	1630.5	1484.9	1338.5
10°	1981.8	1990.7	2006.1	2024.2	2036.4	2002.5	1911.1	1883.5	1755.5	1575.6	1367.8
12.5°	1868.0	1881.8	1903.8	1949.2	2022.6	2078.5	2047.2	2024.9	1900.2	1666.1	1400.0
15°	1797.0	1805.2	1817.3	1847.9	1926.9	2060.7	2141.6	2129.8	2036.7	1768.3	1436.2
17.5°	1775.3	1783.5	1787.4	1806.2	1862.4	1999.5	2178.8	2199.8	2157.7	1862.4	1472.7
20°	1797.0	1800.9	1800.9	1812.1	1856.2	1963.7	2177.1	2219.6	2257.1	1975.2	1506.9
22.5°	1853.9	1855.5	1853.2	1857.1	1890.0	1973.6	2161.7	2214.3	2337.3	2070.9	1533.5
25°	1946.3	1948.9	1933.8	1924.6	1948.6	2017.0	2170.2	2218.6	2400.1	2162.3	1551.3
27.5°	2051.2	2054.5	2036.0	2014.7	2025.9	2070.6	2203.8	2247.2	2447.1	2252.4	1562.5
30°	2179.8	2181.1	2150.2	2124.5	2117.3	2150.5	2261.0	2301.4	2505.7	2358.7	1579.2
32.5°	2311.3	2321.2	2281.4	2245.2	2233.0	2243.2	2345.5	2384.7	2575.4	2472.8	1606.2
35°	2490.2	2491.9	2444.2	2400.1	2360.0	2373.1	2453.7	2482.0	2671.8	2604.7	1644.4
37.5°	2713.5	2728.7	2662.9	2580.7	2531.3	2512.3	2584.6	2615.5	2806.9	2766.5	1701.9
40°	2961.5	2967.1	2910.8	2859.5	2769.4	2714.2	2764.2	2797.7	2973.7	2959.5	1768.7
42.5°	3117.4	3129.5	3133.8	3128.6	3060.8	2968.1	2987.1	3002.9	3171.0	3140.7	1837.1
45°	3170.0	3188.1	3249.3	3378.8	3386.1	3294.6	3250.2	3265.4	3386.1	3323.6	1902.5
47.5°	3082.8	3113.8	3226.6	3492.3	3691.3	3698.2	3564.3	3531.1	3582.1	3475.2	1949.9
50°	2857.6	2864.1	3036.8	3421.6	3834.3	4083.9	3945.5	3883.7	3768.2	3587.3	1982.4
52.5°	2509.0	2516.5	2661.2	3093.0	3746.2	4353.6	4391.4	4280.9	3957.3	3674.5	2003.8
55°	1862.4	1906.1	2065.3	2482.7	3328.5	4328.3	4746.0	4683.1	4185.9	3743.6	2037.4
57.5°	1145.1	1105.0	1293.8	1689.1	2503.4	3980.3	4855.5	4875.9	4437.5	3801.4	2093.6
60°	526.9	534.7	612.7	871.2	1526.0	3113.8	4573.3	4702.2	4576.6	3799.5	2107.7
62.5°	363.1	355.8	336.1	382.5	695.9	1969.3	3862.9	4081.3	4297.7	3681.4	2051.5
65°	324.6	317.4	279.2	266.4	319.7	858.4	2808.2	3083.8	3618.6	3383.4	1911.4
67.5°	303.2	293.4	253.9	228.9	228.2	341.7	1655.9	1987.7	2683.9	2860.5	1656.2
70°	280.9	273.0	233.8	206.2	194.4	214.8	727.8	952.7	1742.7	2061.4	1290.2
72.5°	258.5	249.3	214.1	184.5	169.0	160.8	278.9	362.7	984.6	1235.9	790.9
75°	225.9	221.3	191.4	167.1	150.3	129.9	176.9	201.9	470.9	567.6	396.9
77.5°	197.7	192.7	170.0	146.0	133.9	105.6	125.6	137.1	198.6	230.2	179.2
80°	144.7	149.6	143.4	128.9	119.4	82.9	84.5	94.1	118.1	130.6	109.5
82.5°	91.8	101.0	110.5	99.3	90.4	65.4	58.5	62.2	80.6	85.5	48.7
85°	38.5	39.1	64.1	60.5	51.6	38.8	35.2	37.2	43.1	45.1	22.7
87.5°	14.8	14.5	22.7	21.0	16.1	11.2	11.2	12.5	17.1	15.8	7.2
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°	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2	1262.2
2.5°	1266.5	1243.1	1196.8	1139.2	1097.1	1049.8	1008.0	978.1	966.9	961.6	951.8
5°	1265.5	1219.5	1123.4	1022.8	941.9	859.0	789.0	743.6	739.6	709.4	706.4
7.5°	1265.8	1195.5	1042.5	894.5	771.2	686.4	628.5	613.3	595.3	590.7	593.0
10°	1266.8	1164.9	955.7	767.6	648.2	592.6	570.9	565.0	565.7	567.6	568.0
12.5°	1268.1	1135.3	865.6	671.2	579.1	556.1	553.8	559.1	564.7	568.9	569.9
15°	1269.8	1101.4	777.8	593.6	544.6	542.6	550.2	559.1	567.0	573.2	574.2
17.5°	1267.8	1061.9	704.1	545.9	525.5	535.1	547.6	558.8	566.0	571.9	572.6
20°	1263.2	1017.9	633.1	512.4	513.7	529.2	542.6	553.2	561.1	564.0	566.3
22.5°	1245.4	965.2	571.3	486.4	499.6	520.9	537.0	543.3	534.4	528.2	529.8
25°	1215.2	896.8	513.7	465.4	486.7	509.4	525.9	510.7	503.5	500.9	502.2
27.5°	1177.4	821.9	470.3	443.3	470.3	496.6	492.0	489.4	486.1	481.8	482.8
30°	1136.6	748.5	433.5	426.2	452.5	467.7	469.6	473.9	470.3	463.7	466.3
32.5°	1098.8	679.5	405.5	411.7	440.0	437.7	452.5	457.5	440.7	418.7	419.6
35°	1066.5	615.3	384.5	397.6	418.7	419.6	434.4	417.3	399.3	388.7	389.4
37.5°	1042.2	565.3	370.6	385.4	391.4	403.9	396.0	387.1	384.8	377.5	377.9
40°	1027.7	521.6	361.8	375.9	374.9	383.5	358.1	367.0	370.3	368.0	368.3
42.5°	1013.3	490.7	352.6	362.7	362.4	345.6	340.1	347.6	356.2	357.2	356.5
45°	1001.7	466.7	343.0	342.7	349.3	323.0	321.3	325.9	338.1	344.0	343.7
47.5°	988.9	446.6	328.5	319.3	321.3	308.8	306.2	308.2	323.0	332.5	335.1
50°	972.8	426.5	310.5	298.0	289.7	295.7	296.3	296.6	311.4	322.3	324.6
52.5°	960.0	411.4	289.7	280.5	270.7	283.8	288.7	289.4	298.3	307.2	308.8
55°	967.5	402.9	269.3	262.8	253.9	271.6	281.2	282.5	284.5	291.1	292.0
57.5°	990.2	404.8	252.9	244.4	237.8	257.2	273.3	274.3	273.0	280.9	282.2
60°	997.1	403.9	240.7	224.0	220.0	241.7	261.8	263.8	263.4	274.9	277.2
62.5°	968.2	391.4	228.6	206.9	204.2	225.9	245.7	253.6	255.2	271.6	274.6
65°	900.1	365.7	212.5	188.8	188.8	209.2	230.2	241.1	245.7	267.7	271.0
67.5°	810.3	335.4	196.0	173.3	172.7	193.0	213.8	224.9	232.2	262.1	264.1
70°	672.5	294.7	175.6	156.5	156.5	175.0	193.7	207.2	217.7	251.6	251.6
72.5°	460.8	245.0	151.0	137.5	137.8	154.9	174.0	189.1	201.6	230.5	231.2
75°	291.4	191.4	124.0	117.1	118.4	134.5	154.2	170.0	195.0	227.9	228.9
77.5°	154.9	134.5	98.7	97.0	98.7	113.5	135.5	157.2	195.7	197.7	194.4
80°	100.3	95.4	77.9	74.7	75.3	91.4	120.7	149.3	157.2	159.2	151.9
82.5°	54.6	60.5	55.3	52.0	52.0	71.4	102.9	118.7	112.8	93.7	89.5
85°	23.3	28.3	28.6	25.0	24.0	44.1	69.1	64.8	60.2	57.6	56.9
87.5°	6.6	9.2	9.2	6.9	5.3	12.2	13.8	3.9	0.0	0.3	0.7
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)