

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: P451136

Luminaire Tested: **GALN-SA2A-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7735 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

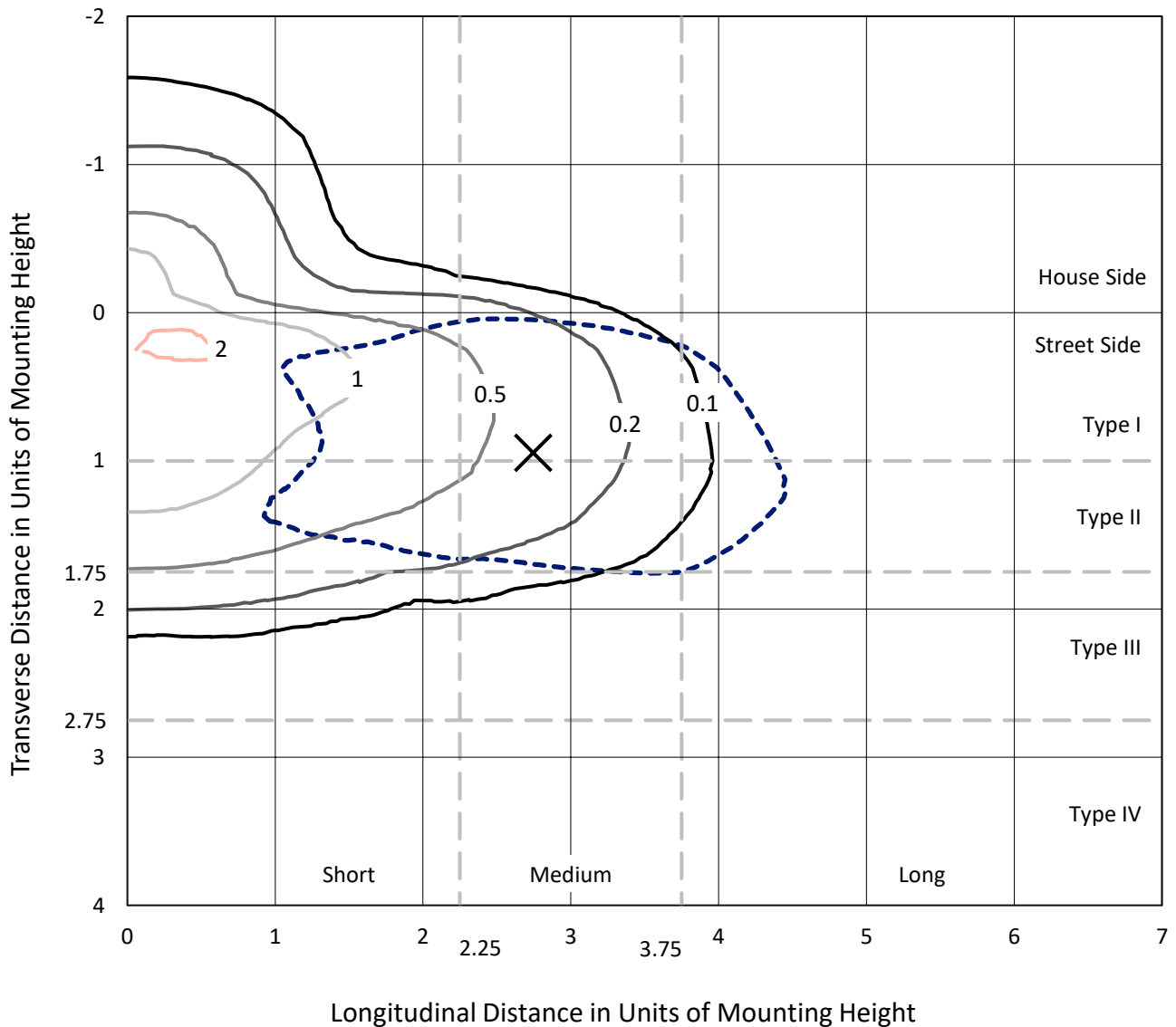
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

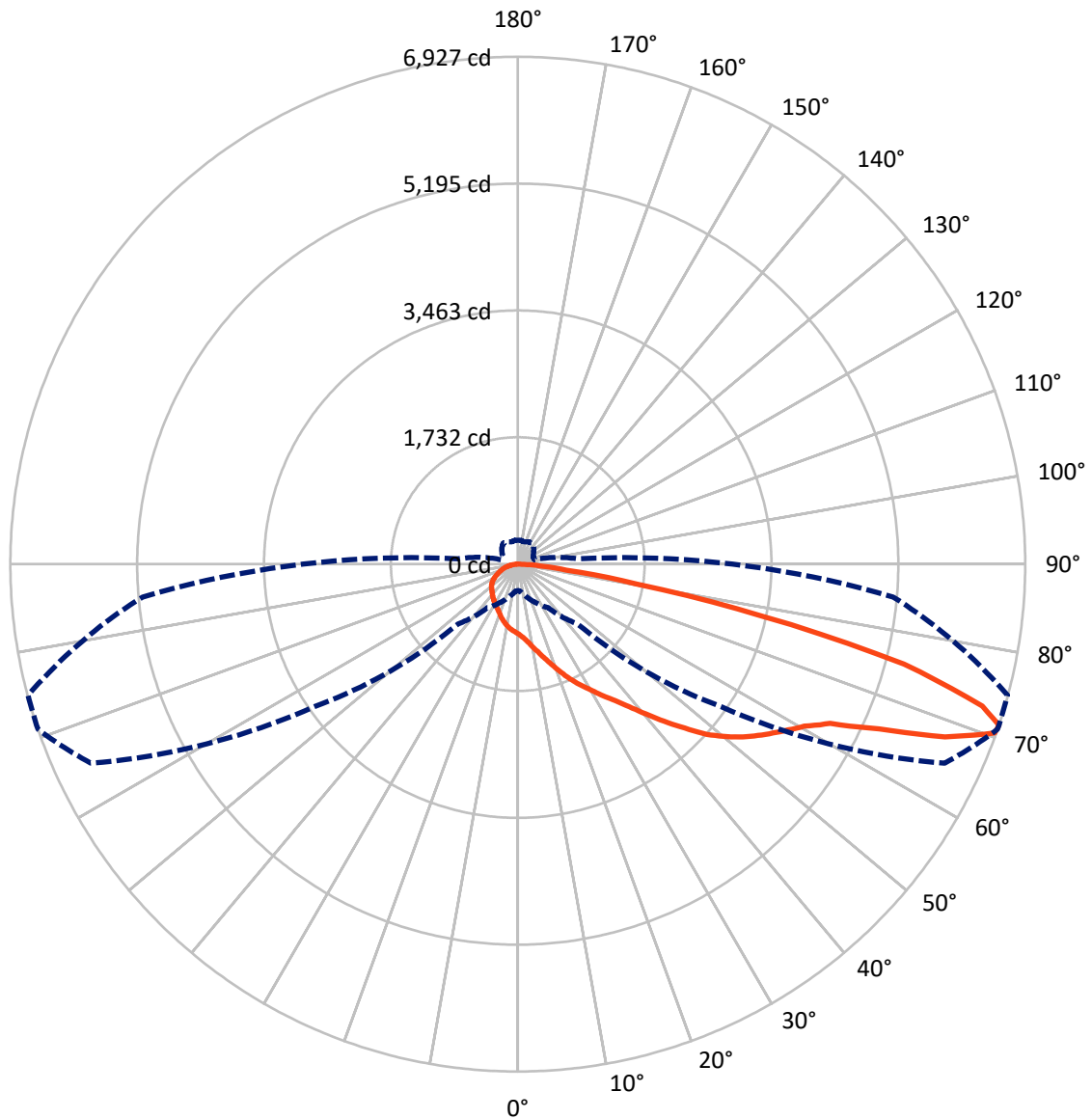
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1391.1	0.0	1391.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	6343.9	0.0	6343.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	7735.0	0.0	7735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.2
10°-20°	309.7	4.0
20°-30°	541.2	7.0
30°-40°	805.0	10.4
40°-50°	1186.0	15.3
50°-60°	1660.4	21.5
60°-70°	1857.1	24.0
70°-80°	1134.4	14.7
80°-90°	145.9	1.9
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°	7735.0	100.0
0°-180°	7735.0	100.0

Coefficient of Utilization



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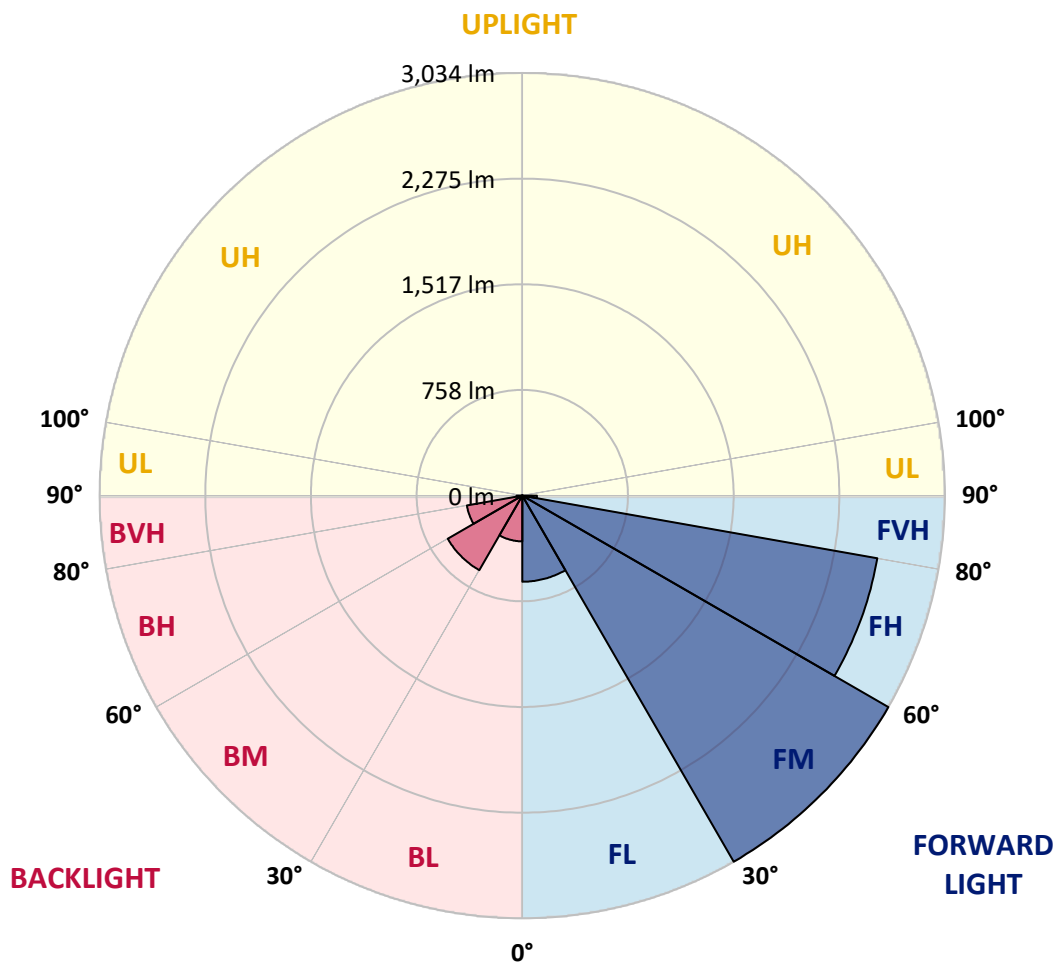
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.0	8.0			
FM (30°-60°)	3033.5	39.2			
FH (60°-80°)	2587.3	33.4			G2/5000
FVH (80°-90°)	105.0	1.4			G2/225
BL (0°-30°)	328.2	4.2	B1/500		
BM (30°-60°)	617.9	8.0	B1/1000		
BH (60°-80°)	404.2	5.2	B1/500		G1/500
BVH (80°-90°)	40.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3
2.5°	1053.9	1048.8	1049.2	1042.0	1032.6	1022.4	1008.0	995.2	985.0	979.1	961.6
5°	1167.8	1162.7	1156.4	1140.6	1133.8	1108.7	1076.9	1047.9	1025.8	1013.5	978.7
7.5°	1260.1	1258.8	1257.1	1248.2	1230.8	1195.9	1168.7	1118.5	1085.8	1062.4	1002.9
10°	1317.1	1319.2	1320.5	1322.2	1314.9	1296.7	1259.2	1195.9	1154.2	1124.5	1034.3
12.5°	1346.0	1348.1	1355.3	1371.0	1380.8	1378.7	1348.1	1286.0	1228.6	1189.5	1067.9
15°	1363.8	1367.2	1380.0	1400.8	1433.5	1454.4	1439.5	1382.1	1319.2	1272.8	1107.9
17.5°	1383.4	1387.2	1401.2	1431.0	1473.9	1519.0	1535.1	1485.8	1417.4	1362.1	1152.5
20°	1394.4	1399.5	1419.5	1458.6	1508.8	1574.3	1627.8	1601.9	1527.1	1465.9	1204.0
22.5°	1412.3	1416.5	1433.5	1475.2	1535.1	1617.2	1720.5	1715.0	1649.1	1570.0	1260.5
25°	1460.8	1467.6	1476.1	1501.1	1559.0	1661.0	1797.5	1835.7	1767.3	1678.8	1312.4
27.5°	1552.2	1557.7	1557.3	1560.7	1593.4	1698.8	1864.2	1955.2	1884.6	1789.0	1362.5
30°	1656.3	1658.4	1660.1	1652.5	1659.7	1737.5	1925.4	2073.4	2002.8	1902.0	1406.3
32.5°	1783.0	1787.3	1772.8	1753.2	1747.3	1794.9	1976.0	2191.6	2142.7	2016.8	1449.7
35°	1932.6	1943.7	1914.4	1879.9	1855.7	1877.4	2044.0	2312.3	2285.9	2163.5	1507.1
37.5°	2103.6	2117.2	2089.9	2022.4	1987.9	1993.9	2132.9	2461.5	2467.0	2330.6	1592.5
40°	2243.4	2261.3	2262.1	2166.5	2114.2	2121.0	2245.5	2622.2	2685.6	2537.2	1693.3
42.5°	2335.7	2353.1	2371.4	2315.3	2260.4	2299.1	2376.9	2796.5	2931.3	2788.0	1834.0
45°	2436.9	2452.6	2462.8	2437.3	2406.7	2507.0	2535.5	2981.9	3193.2	3068.2	1987.9
47.5°	2554.2	2571.6	2581.4	2557.2	2545.7	2689.4	2706.4	3154.9	3472.9	3340.3	2158.0
50°	2710.6	2723.8	2718.7	2703.4	2700.9	2829.3	2870.5	3316.9	3703.7	3633.2	2334.4
52.5°	2905.3	2921.1	2926.6	2904.9	2895.1	2929.2	3002.7	3464.4	3913.8	3884.9	2522.7
55°	3023.1	3048.2	3132.4	3166.4	3189.8	3058.4	3145.1	3627.2	4102.1	4150.1	2725.1
57.5°	2872.2	2904.5	3092.8	3262.9	3482.7	3381.5	3347.1	3797.3	4290.4	4407.3	2967.4
60°	2504.0	2511.3	2754.0	3067.3	3509.5	3796.8	3768.4	4067.7	4494.5	4666.7	3286.7
62.5°	1737.1	1752.4	2039.4	2539.3	3178.7	3946.5	4485.1	4534.5	4787.0	5054.8	3754.8
65°	895.8	875.8	1137.2	1595.9	2396.5	3591.1	5065.9	5392.8	5421.3	5661.9	4413.7
67.5°	551.4	560.3	682.8	931.9	1417.0	2609.9	5005.1	6441.6	6291.5	6407.2	5025.5
70°	414.1	425.1	509.3	637.7	863.9	1492.2	4025.1	6695.8	6905.4	6875.7	5211.7
71°	360.1	371.6	459.1	580.3	725.7	1151.7	3391.3	6429.7	6926.7	6921.6	5141.5
72.5°	306.9	314.2	382.6	491.5	611.8	807.3	2547.8	5766.5	6631.2	6800.8	4891.1
75°	241.0	246.6	277.2	375.0	481.7	495.7	1367.2	4323.2	5446.4	5769.5	4071.9
77.5°	196.4	200.2	216.0	278.5	371.6	351.2	717.2	2813.9	3412.1	3737.3	2398.6
80°	156.0	160.3	169.6	188.8	278.5	250.4	342.2	1425.9	1648.2	1644.8	957.4
82.5°	121.2	122.4	133.5	138.6	190.5	177.7	185.4	603.7	668.7	690.8	345.6
85°	76.5	80.3	118.2	106.3	113.9	104.2	91.4	239.8	295.5	291.2	138.2
87.5°	23.4	24.7	40.0	45.1	50.6	45.5	33.6	70.6	86.3	93.5	34.4
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°	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3	949.3
2.5°	954.8	950.2	933.6	920.0	907.2	893.2	881.3	877.9	874.9	873.6	873.2
5°	963.8	949.7	917.0	890.2	869.0	849.4	837.1	831.6	826.0	826.0	827.7
7.5°	976.5	951.0	900.4	860.5	833.7	815.4	806.5	805.6	806.9	808.2	808.6
10°	990.6	950.2	876.2	826.5	802.6	794.1	794.6	801.8	808.6	813.7	814.6
12.5°	1004.2	945.1	847.7	794.6	779.3	781.0	792.9	809.0	822.2	829.4	829.9
15°	1019.5	937.0	813.3	764.4	759.3	772.5	794.6	819.2	839.2	851.1	852.4
17.5°	1032.2	923.4	777.1	735.1	741.4	765.7	796.3	828.2	852.4	867.3	869.8
20°	1046.7	906.0	739.7	707.0	725.3	758.0	792.9	827.3	852.4	866.8	870.2
22.5°	1058.2	881.3	704.0	684.0	710.8	748.7	781.4	809.0	829.4	837.1	842.2
25°	1062.8	850.3	670.4	665.3	699.3	733.4	755.5	771.2	777.6	776.7	778.8
27.5°	1060.3	814.6	641.5	650.5	684.9	709.5	720.6	719.3	707.8	697.2	702.3
30°	1049.6	772.0	617.3	635.1	666.2	679.8	678.1	661.5	639.8	619.8	621.1
32.5°	1030.5	726.1	594.8	617.7	639.8	645.8	634.3	612.6	581.6	555.6	551.8
35°	1014.4	682.3	574.8	597.7	613.5	610.5	599.4	571.4	543.3	520.4	516.5
37.5°	1011.8	644.9	555.6	575.2	584.1	579.9	566.3	542.5	532.3	514.8	512.7
40°	1025.4	618.6	536.1	551.4	555.6	552.2	537.4	523.8	533.1	528.9	528.9
42.5°	1062.4	604.5	518.7	527.6	531.0	533.5	522.9	511.4	522.9	503.4	497.0
45°	1121.1	605.0	502.9	504.2	514.4	523.3	516.1	499.1	493.2	454.0	446.4
47.5°	1207.4	619.4	490.2	482.1	500.4	515.3	505.1	480.4	454.0	428.1	423.4
50°	1308.1	645.3	478.7	459.1	481.7	505.1	497.4	468.5	441.3	425.6	422.6
52.5°	1419.9	678.1	464.7	433.6	458.7	500.4	499.1	466.8	429.4	418.8	416.2
55°	1558.1	710.4	447.2	403.9	438.3	496.6	494.4	452.8	426.8	419.2	418.3
57.5°	1718.8	757.2	422.2	373.7	414.9	480.8	476.1	444.3	418.3	412.8	412.4
60°	1977.7	829.9	386.4	346.1	391.1	453.2	459.1	429.8	404.7	403.4	403.0
62.5°	2318.2	931.9	349.5	317.6	363.5	417.5	434.5	410.3	390.3	396.6	397.5
65°	2788.4	1017.8	311.2	293.3	332.9	383.0	411.1	392.0	374.1	386.4	386.4
67.5°	3095.0	1019.5	276.3	268.3	301.8	354.1	386.4	370.3	353.3	374.1	375.0
70°	3031.2	893.2	247.4	241.9	271.7	323.1	359.2	346.5	326.9	345.6	338.8
71°	2928.3	823.1	235.9	231.7	259.8	308.2	346.5	335.9	316.3	328.6	324.8
72.5°	2764.2	714.6	217.2	218.1	241.9	289.5	328.6	317.6	298.0	304.8	303.5
75°	2336.5	624.1	185.8	189.6	207.9	257.6	292.9	284.4	264.4	264.4	263.2
77.5°	1460.8	436.2	154.3	156.4	176.4	220.6	251.7	244.5	225.3	218.9	217.2
80°	545.0	225.3	120.7	123.3	135.6	173.9	208.3	201.5	182.0	174.7	167.9
82.5°	206.2	113.1	88.9	86.7	99.9	132.6	163.3	155.2	139.9	122.4	117.3
85°	77.8	56.1	54.4	52.7	58.7	78.6	101.2	99.5	83.3	71.0	69.7
87.5°	20.4	18.3	21.3	15.7	16.6	14.9	15.3	6.4	3.0	1.3	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)