

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: P651730

Luminaire Tested: **GALN-SA2A-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6397.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

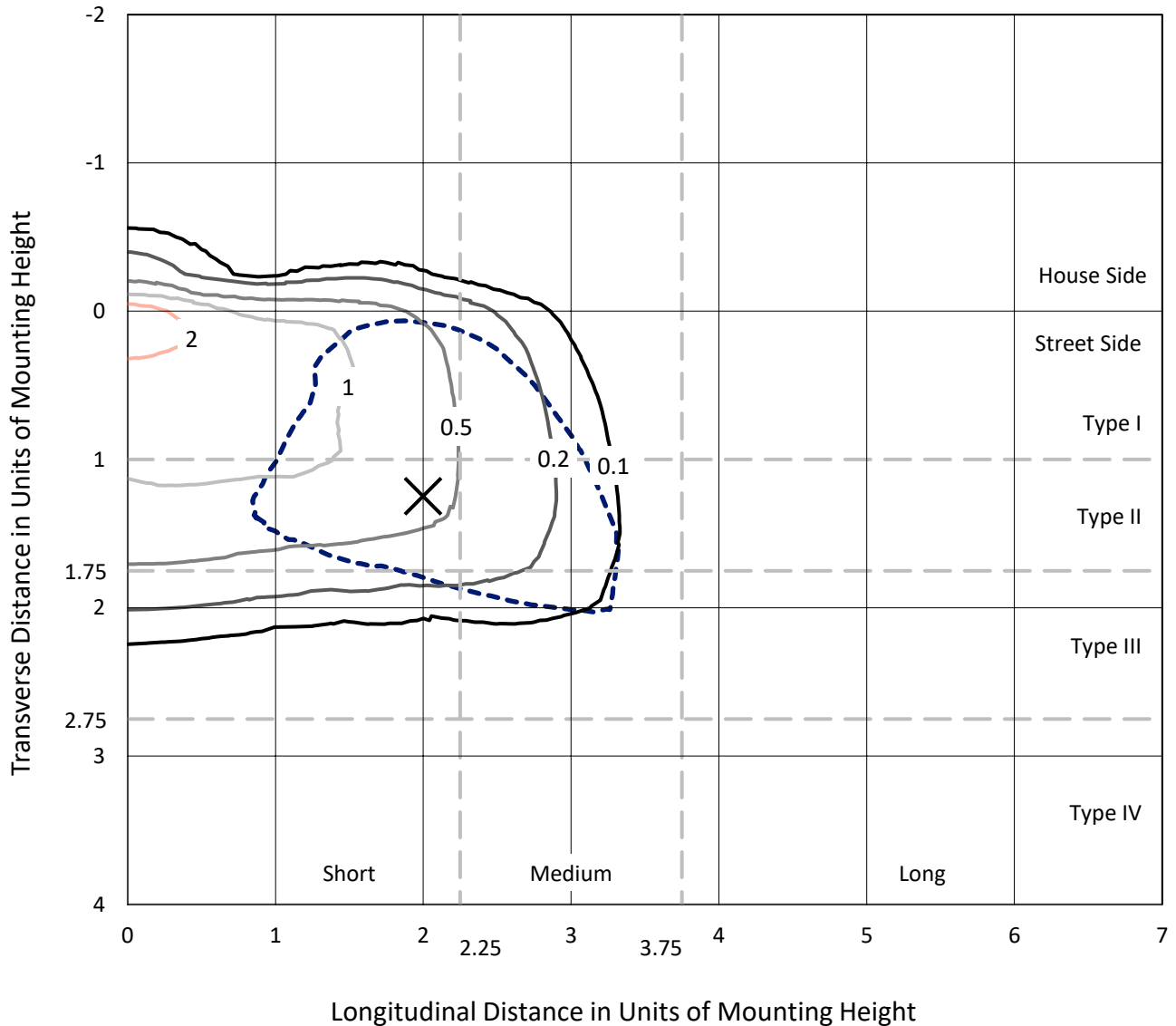
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

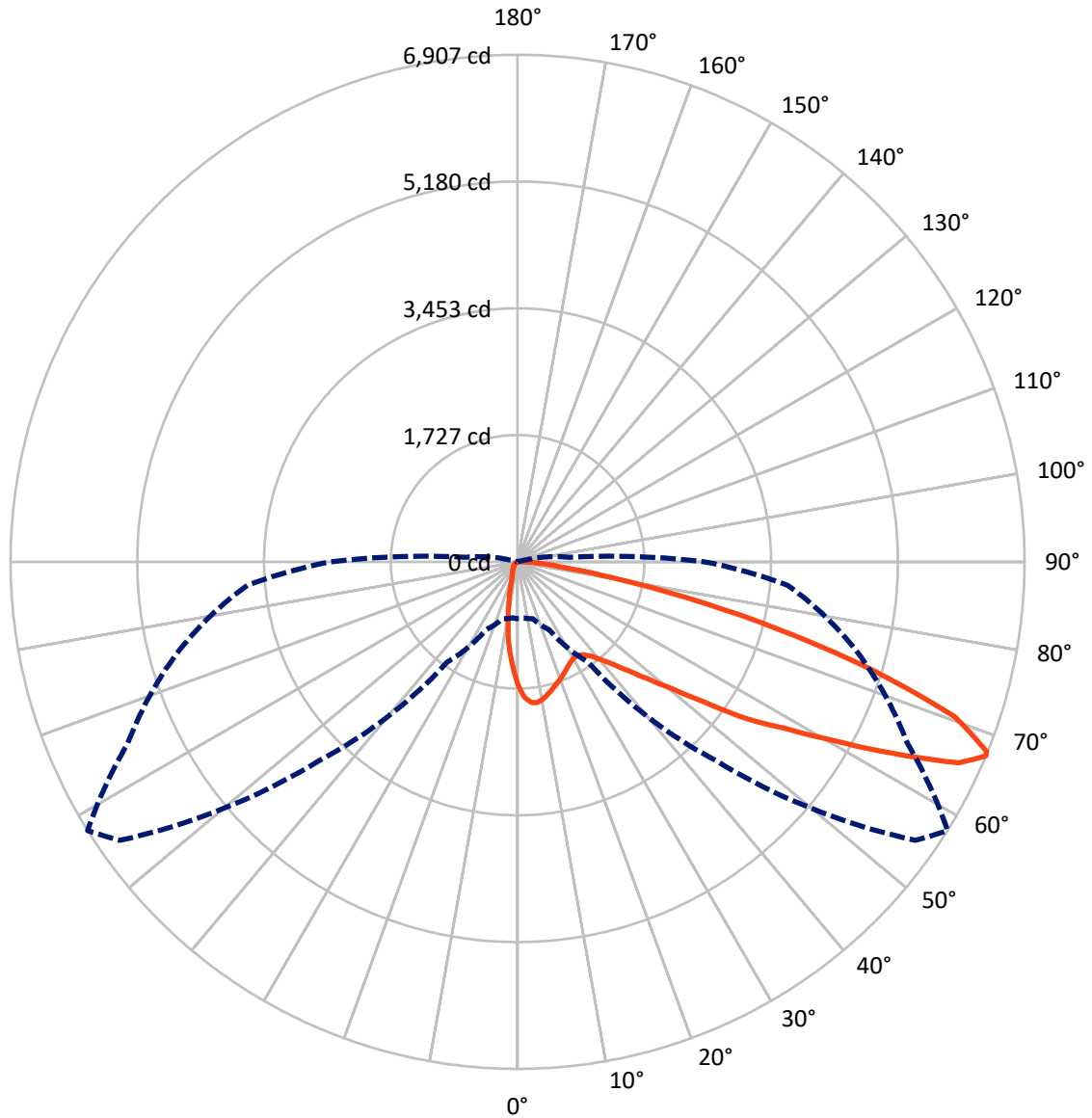
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	461.7	0.0	461.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5935.8	0.0	5935.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	6397.5	0.0	6397.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	2.2
10°-20°	297.2	4.6
20°-30°	402.8	6.3
30°-40°	558.6	8.7
40°-50°	890.9	13.9
50°-60°	1540.0	24.1
60°-70°	1759.2	27.5
70°-80°	733.4	11.5
80°-90°	77.8	1.2
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°	6397.5	100.0
0°-180°	6397.5	100.0

Coefficient of Utilization

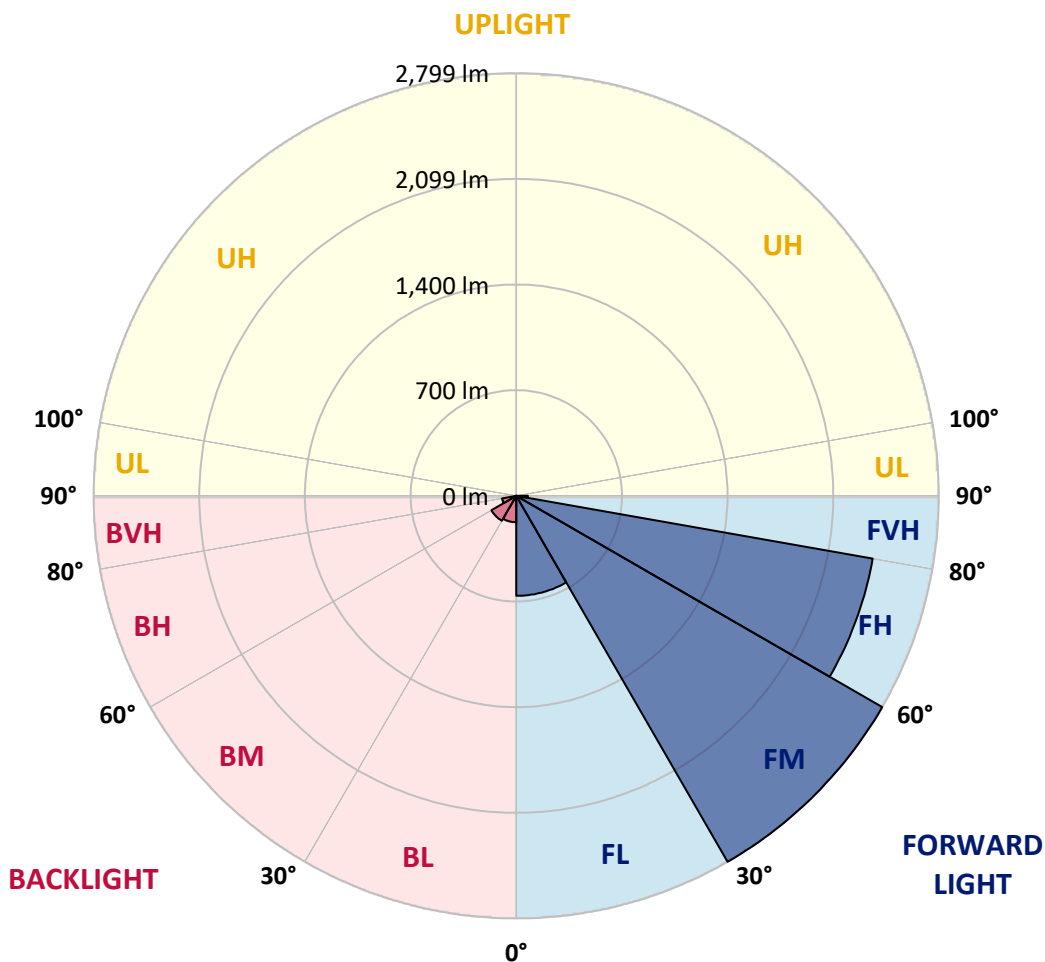


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.3	10.4			
FM (30°-60°)	2799.2	43.8			
FH (60°-80°)	2397.1	37.5			G2/5000
FVH (80°-90°)	77.2	1.2			G1/100
BL (0°-30°)	175.3	2.7	B1/500		
BM (30°-60°)	190.4	3.0	B0/220		
BH (60°-80°)	95.4	1.5	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9
2.5°	1968.3	1971.2	1960.1	1951.1	1928.1	1903.3	1870.3	1852.8	1822.9	1771.1	1713.9
5°	2014.4	2018.2	2016.5	2014.4	2005.4	1981.5	1939.6	1924.2	1880.1	1796.0	1692.5
7.5°	1911.8	1925.9	1927.7	1944.3	1960.1	1962.2	1946.4	1934.9	1894.3	1795.5	1654.4
10°	1775.9	1785.3	1799.0	1818.2	1856.3	1887.9	1903.3	1901.6	1878.0	1782.2	1610.0
12.5°	1638.6	1643.7	1664.7	1697.6	1744.2	1798.1	1839.1	1847.3	1847.7	1766.4	1572.8
15°	1520.6	1518.5	1534.7	1572.8	1638.2	1705.7	1779.3	1792.1	1812.6	1751.0	1538.2
17.5°	1419.8	1430.9	1433.4	1475.3	1535.6	1623.2	1716.9	1739.5	1780.6	1737.8	1509.5
20°	1357.3	1363.3	1368.9	1392.4	1446.7	1539.0	1658.3	1689.5	1750.6	1725.8	1477.5
22.5°	1339.0	1342.8	1338.1	1345.3	1383.9	1465.9	1594.6	1636.1	1722.0	1714.7	1451.4
25°	1353.1	1356.9	1345.8	1337.3	1350.5	1406.5	1533.1	1583.5	1698.9	1712.6	1431.7
27.5°	1387.2	1394.5	1379.2	1363.8	1356.0	1374.4	1484.7	1543.3	1683.1	1722.9	1422.7
30°	1440.7	1445.0	1433.4	1414.6	1397.1	1378.7	1459.5	1515.5	1678.8	1746.8	1421.9
32.5°	1498.8	1507.8	1501.4	1489.0	1466.4	1422.7	1466.8	1516.3	1689.1	1781.4	1432.6
35°	1570.7	1580.9	1586.9	1584.4	1555.3	1500.9	1513.0	1554.8	1716.4	1845.2	1461.7
37.5°	1641.2	1650.2	1683.9	1695.5	1669.8	1618.5	1602.7	1630.5	1776.7	1928.5	1514.2
40°	1722.0	1734.0	1781.4	1825.5	1813.0	1759.2	1730.1	1753.2	1869.0	2054.1	1613.8
42.5°	1799.4	1820.8	1893.0	1970.8	1982.3	1922.1	1902.8	1910.5	2005.9	2235.0	1752.8
45°	1909.2	1929.3	2022.5	2128.2	2182.4	2135.4	2115.7	2114.4	2193.5	2489.4	1978.0
47.5°	2067.9	2085.8	2195.7	2300.0	2396.6	2403.0	2365.8	2378.6	2429.5	2786.9	2254.2
50°	2262.4	2304.7	2376.9	2485.5	2614.6	2719.0	2730.5	2713.4	2757.0	3131.5	2586.0
52.5°	2545.0	2561.2	2627.5	2716.8	2868.1	3045.1	3182.3	3158.9	3145.2	3459.8	2921.1
55°	2755.7	2777.5	2880.5	3003.2	3225.1	3458.5	3756.1	3764.1	3591.5	3775.3	3249.0
57.5°	2692.0	2725.3	2881.4	3128.1	3615.9	4042.5	4264.0	4269.5	4004.4	4081.8	3619.2
60°	2365.0	2380.8	2604.3	2933.6	3649.2	4675.2	4984.3	4939.4	4424.7	4424.7	3946.3
62.5°	1677.1	1701.9	1883.2	2367.5	3295.6	4895.0	5847.0	5754.2	5003.5	4752.6	4141.3
65°	1071.8	1047.8	1168.0	1494.5	2455.1	4570.5	6598.1	6603.7	5548.2	4883.9	4034.8
67°	776.3	766.9	801.6	1021.7	1664.7	3842.0	6614.0	6906.8	5861.1	4800.8	3694.5
67.5°	710.1	717.4	742.6	921.7	1512.5	3496.1	6542.1	6888.8	5931.7	4750.9	3571.4
70°	538.2	525.8	553.2	651.9	906.8	2205.5	5627.7	6318.1	5844.0	4254.5	2853.6
72.5°	395.9	394.6	432.6	533.1	698.1	1174.8	4224.6	5065.9	4774.4	3239.6	1796.8
75°	267.2	279.1	339.8	445.5	632.7	761.8	2880.1	3675.3	3314.5	1839.5	734.4
77.5°	152.2	153.1	218.9	357.8	568.2	613.0	1706.6	2341.4	1754.5	611.7	218.0
80°	65.9	72.2	108.6	260.0	471.1	542.9	978.6	1286.8	709.6	129.5	70.6
82.5°	24.4	28.7	47.9	159.9	343.7	447.2	591.2	614.4	240.7	45.8	44.1
85°	0.0	0.8	17.5	74.8	179.1	199.7	395.0	364.2	106.5	21.8	28.7
87.5°	0.0	0.0	0.0	7.7	23.5	74.3	122.7	136.8	25.7	7.7	6.8
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°	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9	1695.9
2.5°	1683.1	1655.3	1585.6	1515.9	1464.2	1421.0	1356.0	1320.5	1301.8	1273.9	1275.7
5°	1640.8	1584.4	1461.7	1334.7	1232.1	1132.1	1012.3	964.0	923.4	900.3	884.9
7.5°	1577.9	1494.5	1312.9	1143.6	985.8	811.0	679.7	592.1	533.1	511.3	490.4
10°	1509.1	1398.3	1161.9	927.3	708.4	528.0	416.8	336.5	307.8	281.3	283.8
12.5°	1445.4	1310.7	1023.4	731.9	496.4	335.6	261.6	228.8	219.3	216.3	216.3
15°	1393.2	1226.9	874.6	550.2	340.3	241.1	209.5	200.5	197.0	196.2	196.2
17.5°	1337.7	1147.5	740.4	406.5	247.5	201.8	191.1	185.1	183.8	183.0	183.0
20°	1288.1	1067.5	613.0	302.7	200.1	181.7	174.8	171.0	169.7	168.9	169.3
22.5°	1241.1	996.5	493.3	228.8	176.1	165.4	158.6	154.7	152.2	150.0	150.5
25°	1199.2	928.1	396.7	187.2	158.6	149.2	142.4	136.8	131.3	128.7	128.3
27.5°	1169.7	868.2	309.1	160.3	142.8	132.5	124.0	117.2	109.8	106.1	105.1
30°	1145.3	807.5	244.6	141.5	127.0	117.2	106.5	96.6	88.9	85.1	83.3
32.5°	1129.5	749.8	192.8	126.2	113.7	101.8	89.7	80.0	71.4	67.5	66.7
35°	1126.9	701.6	157.8	113.3	101.8	88.9	76.5	65.9	58.5	54.7	53.8
37.5°	1145.3	664.3	132.1	103.0	91.9	77.8	64.1	54.3	47.9	44.9	44.5
40°	1194.5	640.8	114.5	94.4	82.9	67.5	54.7	46.2	39.8	36.8	36.8
42.5°	1288.1	641.7	103.0	86.4	73.9	57.7	46.6	38.4	32.9	30.4	29.5
45°	1434.2	670.8	93.2	78.2	65.4	50.0	39.8	31.6	26.1	24.0	24.0
47.5°	1630.1	728.5	84.6	70.1	57.7	42.7	33.8	25.7	20.9	18.8	18.8
50°	1886.2	821.2	77.4	63.2	51.3	36.8	27.3	20.9	16.2	14.5	14.1
52.5°	2153.8	935.8	68.8	57.3	44.1	31.2	22.2	16.2	12.4	11.1	10.7
55°	2449.2	1047.8	60.7	51.3	35.9	26.1	17.5	12.8	9.0	7.7	7.7
57.5°	2747.1	1157.7	50.9	42.7	28.2	19.3	13.7	9.4	6.0	4.7	4.7
60°	2999.3	1193.1	43.1	34.6	21.4	13.7	9.8	6.0	3.4	2.1	2.1
62.5°	3034.0	1073.5	36.3	26.5	15.4	9.4	5.1	3.4	1.3	0.8	0.8
65°	2845.9	872.1	30.4	20.1	10.3	4.7	2.1	1.3	0.4	0.0	0.0
67°	2550.1	707.1	24.8	15.0	7.2	3.0	1.3	0.4	0.0	0.0	0.0
67.5°	2474.4	674.1	24.0	14.1	6.4	2.5	0.8	0.4	0.0	0.0	0.0
70°	1941.7	504.9	17.1	8.6	3.9	1.7	0.0	0.0	0.0	0.0	0.0
72.5°	1206.8	285.6	12.4	5.1	2.5	0.8	0.0	0.0	0.0	0.0	0.0
75°	456.2	100.0	8.6	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	142.0	38.0	5.1	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	47.9	14.5	3.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.5	6.0	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)