

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: P323626

Luminaire Tested: **GLEON-SA2A-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 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: 5988 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

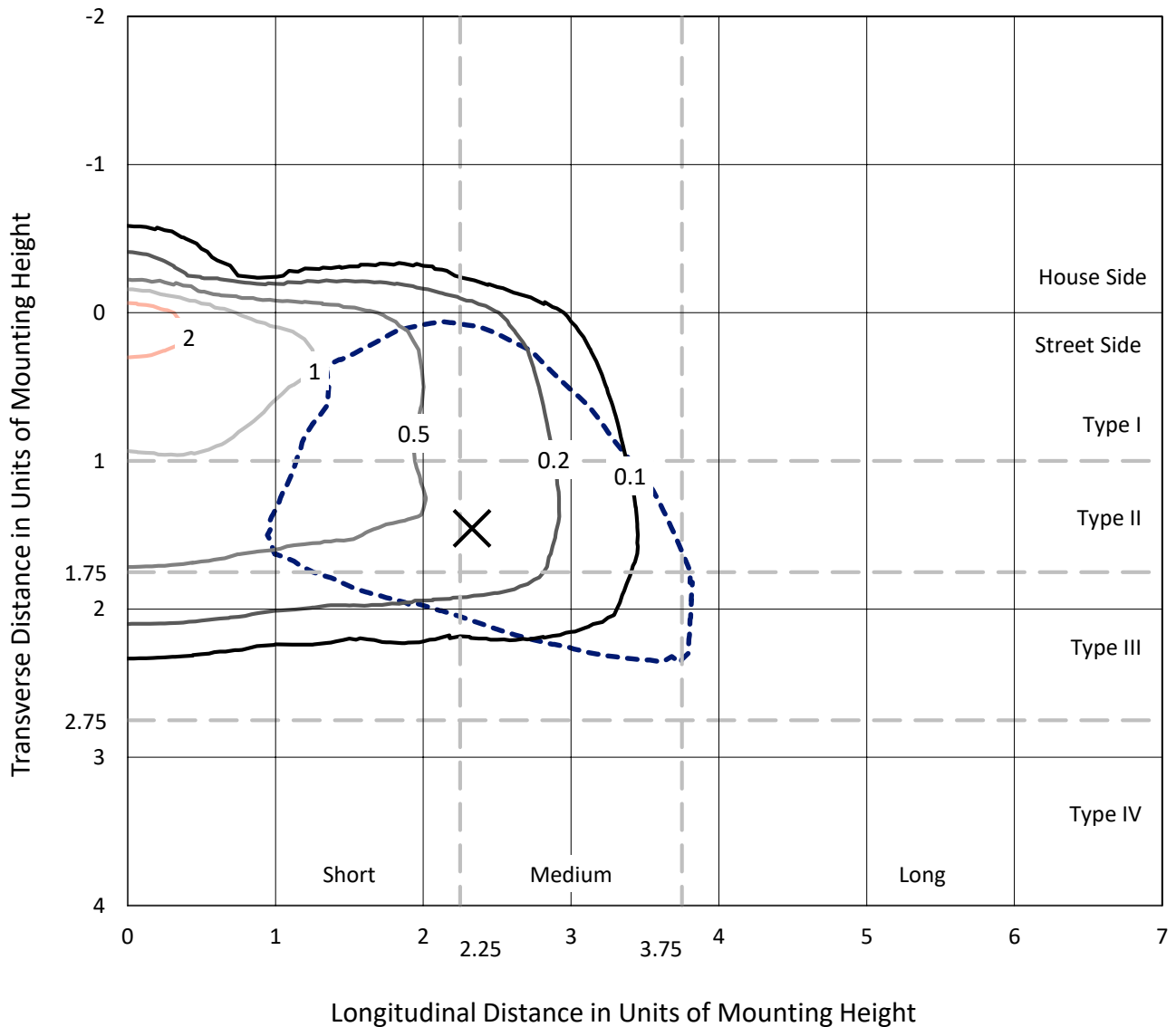
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

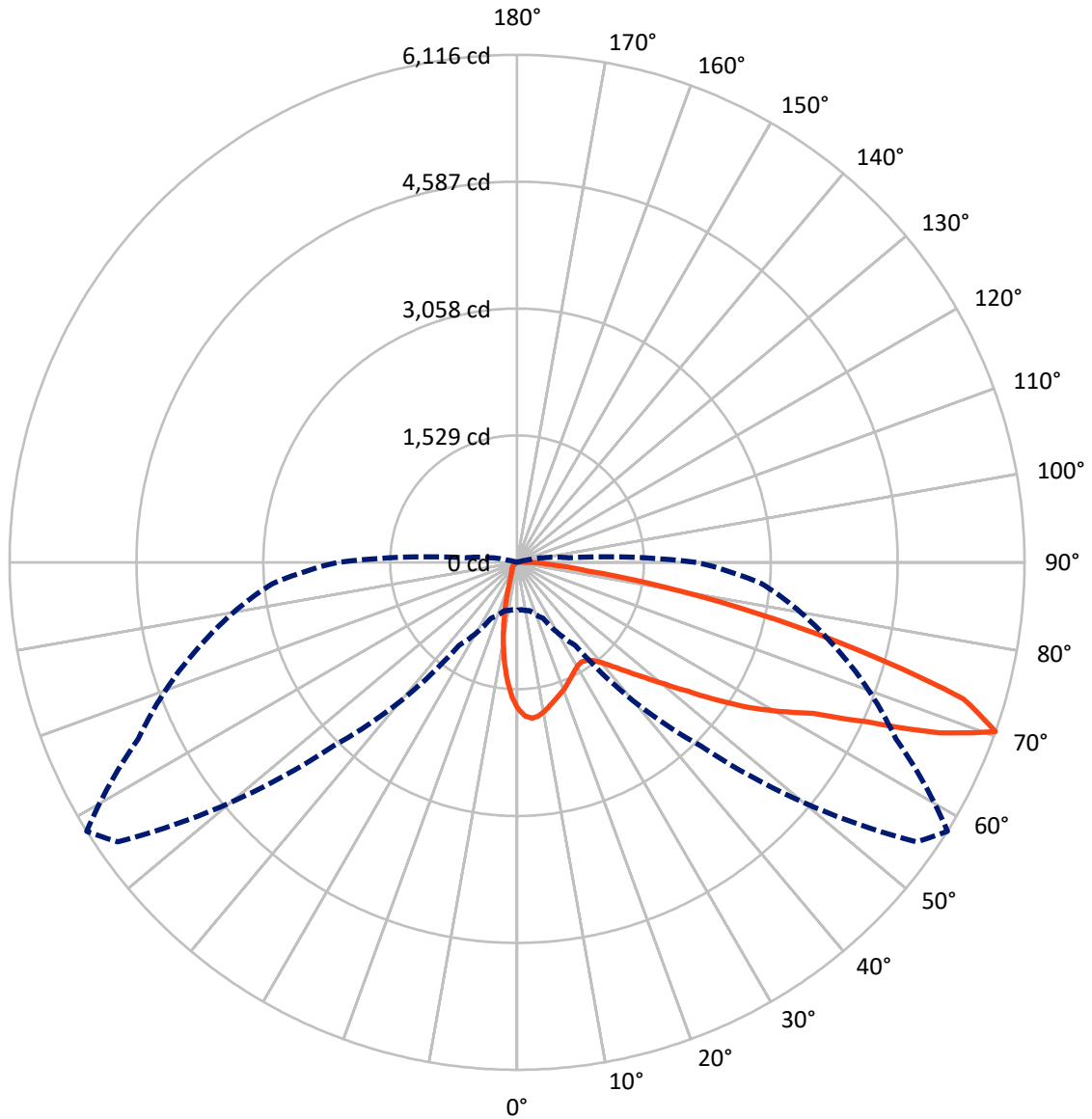
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	512.4	0.0	512.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	5475.6	0.0	5475.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	5988.0	0.0	5988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	2.4
10°-20°	303.6	5.1
20°-30°	399.1	6.7
30°-40°	528.6	8.8
40°-50°	790.0	13.2
50°-60°	1265.6	21.1
60°-70°	1595.3	26.6
70°-80°	860.5	14.4
80°-90°	100.7	1.7
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°	5988.0	100.0
0°-180°	5988.0	100.0

Coefficient of Utilization

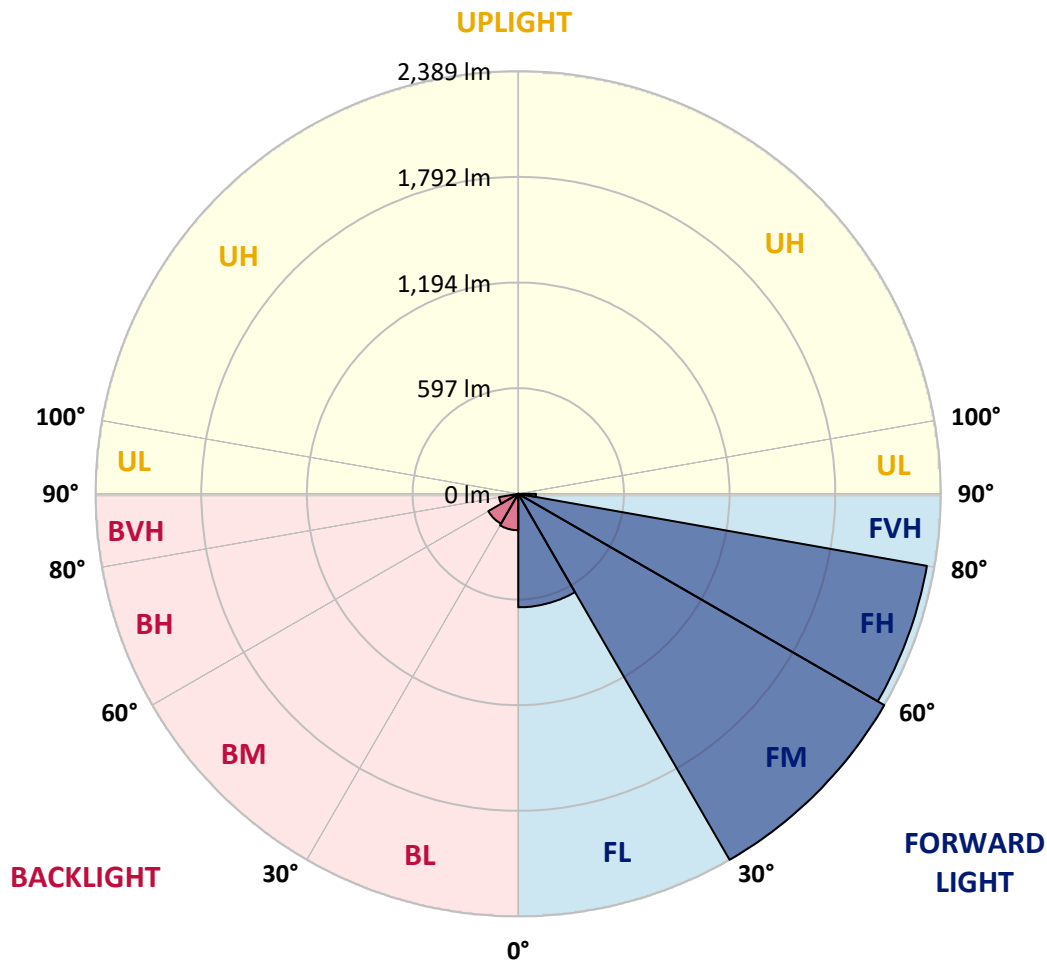


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	641.4	10.7			
FM (30°-60°)	2388.7	39.9			
FH (60°-80°)	2345.6	39.2			G2/5000
FVH (80°-90°)	99.9	1.7			G1/100
BL (0°-30°)	205.9	3.4	B1/500		
BM (30°-60°)	195.5	3.3	B0/220		
BH (60°-80°)	110.2	1.8	B1/500		G1/500
BVH (80°-90°)	0.9	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8
2.5°	1915.5	1910.8	1909.0	1906.0	1894.6	1883.4	1861.2	1855.0	1841.0	1807.9	1772.8
5°	1917.0	1916.7	1922.0	1920.7	1916.7	1911.5	1895.6	1887.3	1863.7	1816.4	1752.1
7.5°	1824.6	1829.3	1841.0	1850.5	1861.5	1875.6	1877.6	1869.7	1850.2	1799.2	1714.0
10°	1700.6	1708.1	1724.5	1743.2	1771.8	1800.2	1825.6	1824.6	1817.9	1767.6	1668.2
12.5°	1576.4	1585.1	1604.0	1631.6	1672.2	1718.5	1763.8	1770.1	1781.3	1739.2	1625.9
15°	1467.5	1475.0	1493.7	1527.6	1577.9	1640.1	1706.6	1718.0	1746.9	1717.0	1590.5
17.5°	1375.2	1379.9	1393.6	1431.2	1489.5	1564.9	1651.3	1673.7	1716.8	1699.6	1559.9
20°	1310.7	1311.4	1320.4	1346.8	1405.1	1489.5	1594.0	1626.2	1684.9	1684.7	1528.3
22.5°	1278.8	1276.3	1278.1	1293.3	1336.1	1417.5	1536.8	1574.9	1656.3	1672.0	1496.2
25°	1272.8	1270.8	1265.9	1267.9	1293.8	1354.5	1479.0	1523.1	1631.1	1664.3	1468.3
27.5°	1291.5	1293.5	1285.0	1276.1	1278.1	1313.7	1427.7	1478.8	1610.7	1664.3	1448.6
30°	1329.1	1330.1	1323.9	1312.2	1296.5	1302.2	1392.1	1443.1	1600.5	1675.7	1436.2
32.5°	1370.7	1376.2	1375.4	1366.0	1343.6	1320.4	1383.6	1430.2	1599.8	1701.1	1434.9
35°	1422.2	1428.5	1438.9	1436.9	1413.5	1375.4	1412.5	1449.1	1614.5	1742.9	1448.4
37.5°	1477.0	1486.5	1508.9	1519.6	1504.4	1461.3	1477.3	1503.4	1653.8	1810.7	1482.5
40°	1530.0	1540.8	1581.6	1623.7	1612.2	1567.9	1575.4	1596.3	1723.8	1908.0	1547.2
42.5°	1582.1	1598.0	1658.0	1727.2	1740.9	1705.6	1709.6	1726.2	1827.6	2042.0	1653.0
45°	1644.3	1662.3	1751.1	1836.6	1873.2	1857.7	1874.6	1885.6	1963.3	2219.0	1795.7
47.5°	1735.7	1756.4	1865.4	1962.8	2027.0	2037.0	2071.1	2078.3	2134.8	2425.2	1981.7
50°	1914.0	1919.7	2018.3	2106.7	2199.3	2259.1	2297.9	2303.4	2342.5	2650.5	2214.0
52.5°	2138.3	2142.1	2197.8	2257.1	2362.4	2484.4	2575.3	2583.0	2591.2	2870.1	2443.3
55°	2361.2	2360.7	2397.5	2432.4	2552.9	2730.2	2927.4	2932.1	2873.1	3078.5	2618.6
57.5°	2500.4	2513.8	2569.8	2614.6	2783.0	3010.3	3283.9	3301.4	3169.1	3232.9	2791.9
60°	2456.0	2462.5	2586.8	2752.6	3069.6	3408.4	3644.7	3649.2	3391.7	3387.0	3011.0
62.5°	2092.5	2096.0	2291.2	2633.1	3214.7	3924.8	4080.0	4007.0	3647.7	3600.9	3273.2
65°	1434.2	1456.8	1619.9	2042.5	2948.0	4248.8	4753.7	4633.0	4037.9	3909.1	3510.3
67.5°	844.6	839.8	920.5	1231.8	2165.2	4033.6	5606.0	5486.0	4570.0	4115.6	3440.8
70°	576.9	573.7	604.5	745.7	1222.3	3129.1	5874.2	6116.4	5039.8	3976.6	2961.2
72.5°	411.8	413.6	459.1	579.4	767.4	1823.1	5051.5	5624.9	4892.7	3466.7	2250.9
75°	279.6	284.3	349.6	475.3	672.8	927.5	3584.7	4275.9	3984.1	2519.5	1293.8
77.5°	150.4	155.6	232.6	382.9	608.3	644.4	2305.9	2942.8	2502.6	1132.7	375.0
80°	62.7	65.7	108.8	278.4	525.6	566.0	1356.7	1784.5	1066.4	223.3	83.7
82.5°	27.1	28.6	45.3	166.1	392.9	477.8	718.3	858.5	323.2	49.1	42.1
85°	5.2	5.5	18.7	87.9	250.7	269.7	465.6	456.4	145.2	21.2	30.6
87.5°	0.0	0.0	4.5	27.6	73.7	146.9	284.1	280.6	49.3	10.2	11.5
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°	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8	1768.8
2.5°	1754.9	1737.7	1701.6	1657.0	1622.9	1585.3	1555.4	1517.6	1501.2	1501.9	1492.9
5°	1715.5	1680.2	1600.3	1499.4	1421.7	1341.6	1272.6	1203.9	1163.3	1150.1	1137.6
7.5°	1659.3	1603.2	1475.8	1320.4	1188.9	1060.4	948.7	850.3	788.1	757.7	746.5
10°	1595.8	1517.1	1332.6	1127.9	940.2	766.4	621.5	495.5	445.2	411.1	402.4
12.5°	1540.0	1433.4	1192.7	930.5	707.6	498.0	359.8	281.4	247.2	233.8	231.6
15°	1487.5	1355.3	1058.0	751.7	490.0	306.5	228.8	202.2	194.2	192.0	192.0
17.5°	1437.9	1280.8	926.2	575.7	324.2	214.9	189.5	183.5	181.0	180.8	181.0
20°	1386.1	1206.4	796.8	421.8	226.3	182.0	175.0	171.8	171.1	171.1	171.1
22.5°	1336.6	1131.9	670.8	301.3	181.5	166.1	162.6	160.3	159.6	159.4	158.9
25°	1289.0	1061.2	547.8	212.9	159.4	152.1	149.1	146.2	143.9	142.7	141.9
27.5°	1249.9	998.2	433.2	170.8	143.9	137.7	134.0	129.5	124.0	121.5	120.5
30°	1218.8	940.7	333.9	144.2	129.5	123.3	117.5	109.8	101.8	97.6	97.4
32.5°	1194.4	884.2	253.5	127.5	116.5	108.8	100.6	90.9	81.7	76.9	76.7
35°	1182.5	834.4	193.7	115.3	105.1	95.4	85.2	74.4	65.5	61.0	60.5
37.5°	1190.4	792.3	151.1	105.1	95.4	84.2	72.2	61.0	53.0	49.1	48.8
40°	1219.6	765.4	122.8	96.4	87.1	73.5	60.5	50.0	43.3	40.1	39.8
42.5°	1281.6	755.4	104.8	89.1	79.2	63.5	50.3	41.3	35.1	32.9	32.4
45°	1385.1	770.1	92.6	82.2	71.0	54.0	41.6	33.9	28.4	26.6	26.4
47.5°	1523.1	808.7	83.9	75.4	63.5	45.6	34.6	27.4	23.2	21.4	21.2
50°	1700.9	870.0	76.7	68.7	56.5	38.6	28.6	21.7	17.9	16.7	16.7
52.5°	1894.3	942.9	70.2	62.5	49.5	32.1	23.2	16.7	14.2	12.7	12.7
55°	2054.2	1006.7	63.2	57.8	41.1	26.6	17.7	12.7	10.5	9.7	9.7
57.5°	2213.8	1074.6	55.3	49.5	32.9	21.7	13.4	9.5	7.7	7.2	7.2
60°	2420.7	1157.8	47.6	40.3	25.9	16.4	10.0	6.7	5.7	5.5	5.5
62.5°	2648.3	1206.6	40.6	32.4	20.2	12.2	7.2	4.5	4.2	4.2	4.0
65°	2787.4	1137.6	34.1	25.9	15.7	9.2	4.7	3.2	3.7	3.5	3.0
67.5°	2609.9	890.6	27.9	20.2	12.2	7.0	3.0	2.2	4.0	3.2	2.5
70°	2161.0	623.5	21.7	14.2	9.7	6.0	2.0	1.5	4.2	3.2	2.0
72.5°	1617.2	417.3	17.2	9.5	7.2	5.2	1.7	0.7	3.7	2.7	1.7
75°	883.7	168.1	13.7	6.0	4.5	3.7	1.2	0.5	2.5	2.0	1.2
77.5°	232.6	44.3	10.0	4.0	2.5	1.5	0.7	0.2	1.2	1.0	0.5
80°	59.3	17.2	6.5	2.7	1.7	0.7	0.0	0.0	0.2	0.0	0.0
82.5°	31.6	7.2	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.9	4.7	2.2	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	1.5	0.7	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)