

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: P323636

Luminaire Tested: **GLEON-SA2B-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323636
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-SA2B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA 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: 7344 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

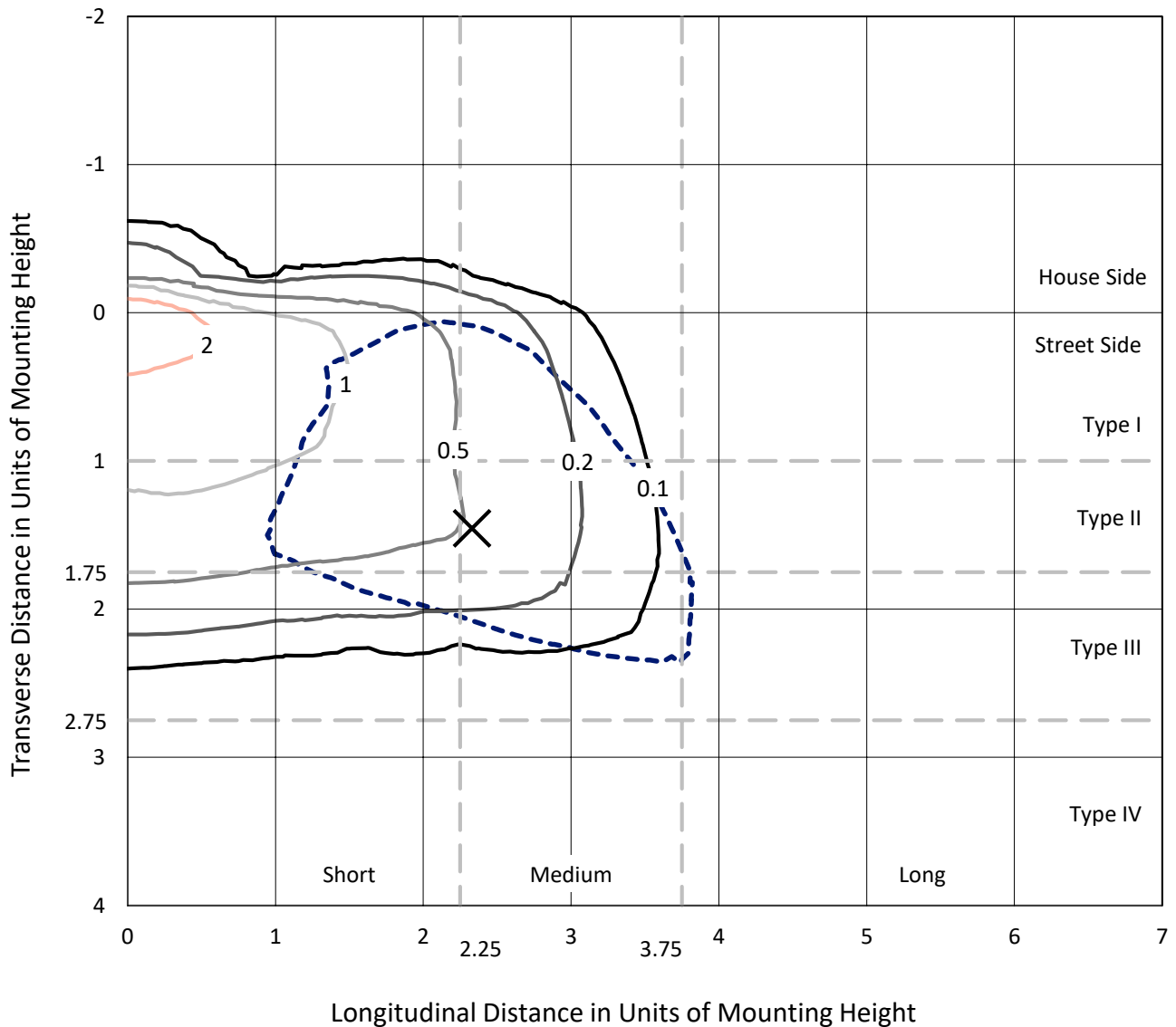
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323636
 CATALOG NUMBER: GLEON-SA2B-827-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

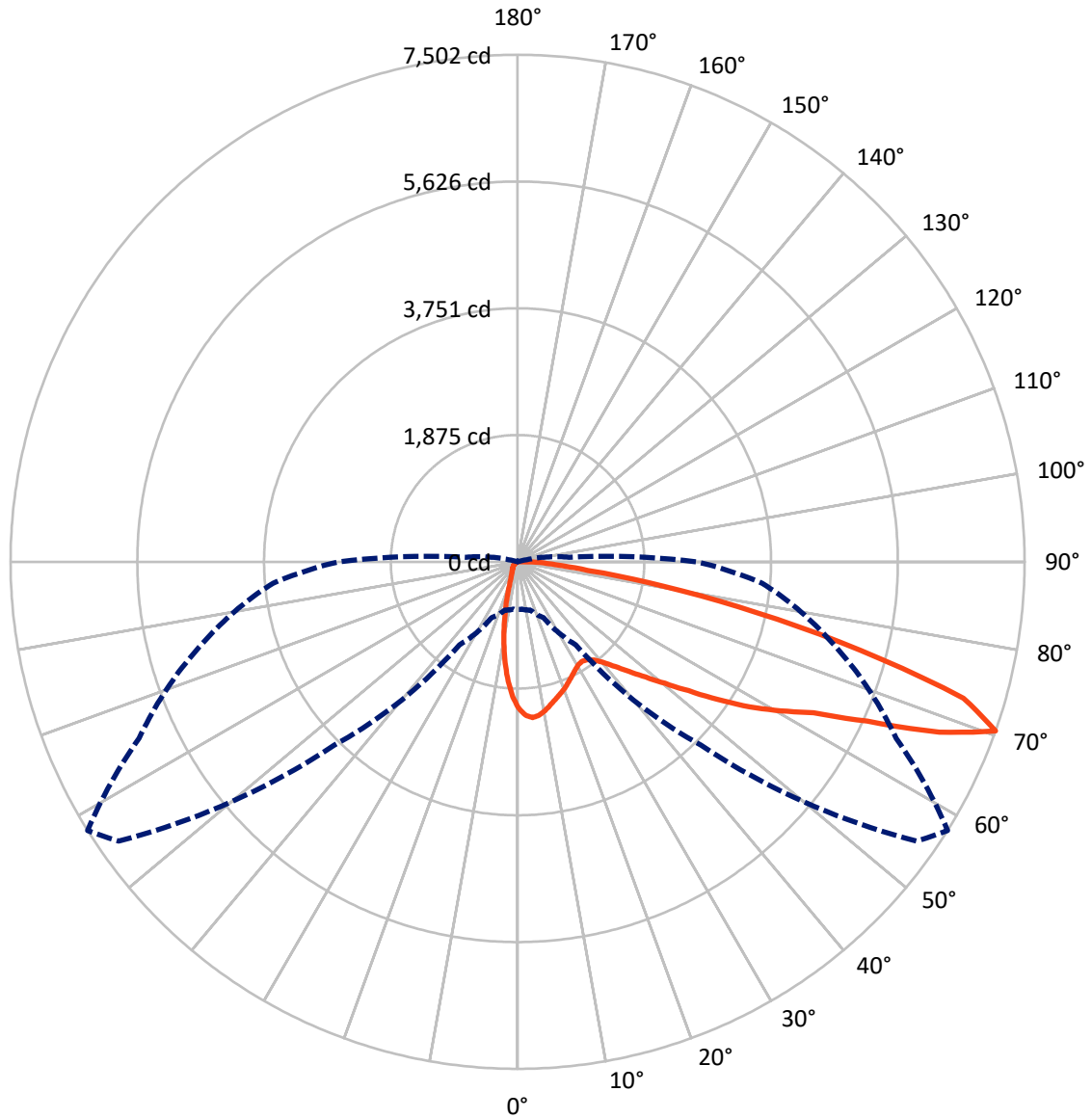
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P323636
CATALOG NUMBER: GLEON-SA2B-827-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P323636
 CATALOG NUMBER: GLEON-SA2B-827-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.5	0.0	628.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	6715.5	0.0	6715.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	7344.0	0.0	7344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	2.4
10°-20°	372.3	5.1
20°-30°	489.5	6.7
30°-40°	648.3	8.8
40°-50°	968.9	13.2
50°-60°	1552.2	21.1
60°-70°	1956.5	26.6
70°-80°	1055.3	14.4
80°-90°	123.5	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°	7344.0	100.0
0°-180°	7344.0	100.0

Coefficient of Utilization



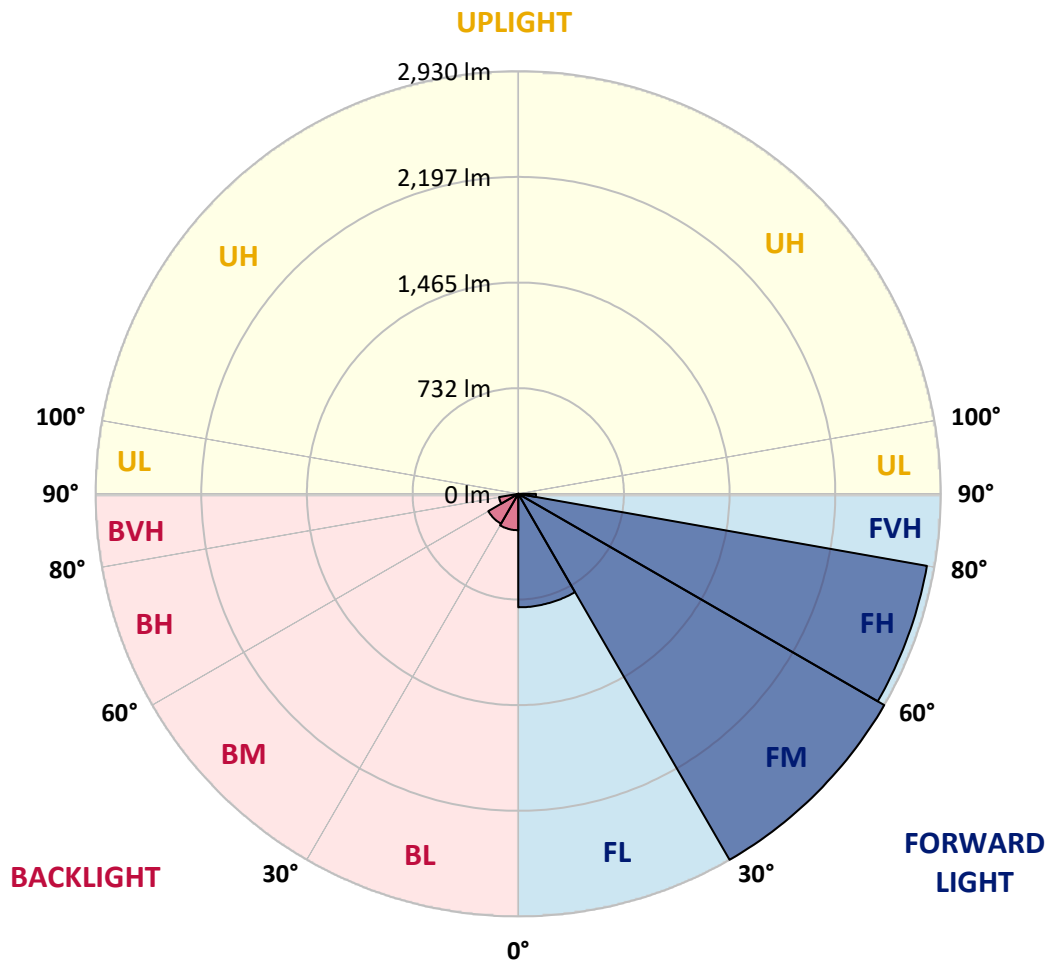
REPORT NUMBER: P323636
 CATALOG NUMBER: GLEON-SA2B-827-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.7	10.7			
FM (30°-60°)	2929.6	39.9			
FH (60°-80°)	2876.7	39.2			G2/5000
FVH (80°-90°)	122.5	1.7			G2/225
BL (0°-30°)	252.5	3.4	B1/500		
BM (30°-60°)	239.8	3.3	B1/1000		
BH (60°-80°)	135.2	1.8	B1/500		G1/500
BVH (80°-90°)	1.1	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





REPORT NUMBER: P323636

CATALOG NUMBER: GLEON-SA2B-827-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4
2.5°	2349.2	2343.4	2341.3	2337.6	2323.6	2309.9	2282.7	2275.0	2257.9	2217.3	2174.3
5°	2351.1	2350.8	2357.2	2355.7	2350.8	2344.4	2324.8	2314.7	2285.7	2227.7	2148.9
7.5°	2237.8	2243.6	2257.9	2269.5	2283.0	2300.4	2302.8	2293.1	2269.2	2206.6	2102.2
10°	2085.7	2094.9	2115.0	2137.9	2173.0	2207.9	2239.0	2237.8	2229.5	2167.9	2046.0
12.5°	1933.3	1944.0	1967.2	2001.1	2050.9	2107.7	2163.3	2170.9	2184.7	2133.0	1994.1
15°	1799.9	1809.0	1831.9	1873.5	1935.2	2011.5	2093.0	2107.1	2142.5	2105.9	1950.7
17.5°	1686.6	1692.4	1709.2	1755.3	1826.8	1919.3	2025.2	2052.7	2105.6	2084.5	1913.2
20°	1607.5	1608.4	1619.4	1651.8	1723.2	1826.8	1955.0	1994.4	2066.5	2066.2	1874.4
22.5°	1568.4	1565.4	1567.5	1586.1	1638.6	1738.5	1884.8	1931.5	2031.4	2050.6	1835.0
25°	1561.1	1558.6	1552.5	1555.0	1586.7	1661.2	1813.9	1868.0	2000.5	2041.1	1800.8
27.5°	1584.0	1586.4	1576.0	1565.0	1567.5	1611.2	1751.0	1813.6	1975.5	2041.1	1776.7
30°	1630.1	1631.3	1623.7	1609.3	1590.1	1597.1	1707.4	1770.0	1962.9	2055.2	1761.4
32.5°	1681.1	1687.8	1686.9	1675.3	1647.8	1619.4	1697.0	1754.1	1962.0	2086.3	1759.9
35°	1744.3	1751.9	1764.8	1762.3	1733.6	1686.9	1732.4	1777.3	1980.1	2137.6	1776.4
37.5°	1811.5	1823.1	1850.6	1863.7	1845.1	1792.2	1811.8	1843.9	2028.3	2220.7	1818.2
40°	1876.5	1889.7	1939.7	1991.3	1977.3	1922.9	1932.1	1957.8	2114.1	2340.1	1897.6
42.5°	1940.4	1959.9	2033.5	2118.4	2135.2	2091.8	2096.7	2117.2	2241.5	2504.4	2027.4
45°	2016.7	2038.7	2147.7	2252.4	2297.3	2278.4	2299.2	2312.6	2407.9	2721.5	2202.4
47.5°	2128.8	2154.1	2287.9	2407.3	2486.1	2498.3	2540.1	2549.0	2618.3	2974.4	2430.5
50°	2347.4	2354.4	2475.4	2583.8	2697.4	2770.7	2818.3	2825.0	2873.0	3250.7	2715.4
52.5°	2622.6	2627.1	2695.5	2768.2	2897.4	3047.0	3158.5	3168.0	3178.0	3520.1	2996.6
55°	2895.9	2895.3	2940.5	2983.2	3131.0	3348.4	3590.3	3596.1	3523.7	3775.7	3211.6
57.5°	3066.6	3083.1	3151.8	3206.7	3413.2	3692.0	4027.6	4049.0	3886.8	3965.0	3424.2
60°	3012.2	3020.2	3172.5	3375.9	3764.7	4180.3	4470.1	4475.6	4159.8	4154.0	3692.9
62.5°	2566.4	2570.6	2810.1	3229.3	3942.7	4813.6	5003.9	4914.4	4473.7	4416.3	4014.5
65°	1759.0	1786.7	1986.8	2505.0	3615.6	5210.9	5830.2	5682.1	4952.3	4794.4	4305.2
67.5°	1035.8	1030.0	1129.0	1510.7	2655.5	4947.1	6875.5	6728.3	5604.8	5047.5	4220.0
70°	707.6	703.6	741.5	914.6	1499.1	3837.6	7204.4	7501.5	6181.1	4877.1	3631.8
72.5°	505.1	507.2	563.1	710.6	941.2	2236.0	6195.4	6898.7	6000.6	4251.7	2760.6
75°	342.9	348.7	428.7	583.0	825.1	1137.5	4396.5	5244.2	4886.3	3090.1	1586.7
77.5°	184.4	190.9	285.2	469.7	746.0	790.3	2828.1	3609.2	3069.3	1389.2	459.9
80°	77.0	80.6	133.4	341.4	644.6	694.1	1664.0	2188.6	1307.9	273.9	102.6
82.5°	33.3	35.1	55.6	203.7	481.9	586.0	881.0	1052.9	396.4	60.2	51.6
85°	6.4	6.7	22.9	107.8	307.5	330.7	571.1	559.8	178.0	26.0	37.6
87.5°	0.0	0.0	5.5	33.9	90.4	180.2	348.4	344.2	60.5	12.5	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323636

CATALOG NUMBER: GLEON-SA2B-827-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4	2169.4
2.5°	2152.3	2131.2	2086.9	2032.3	1990.4	1944.3	1907.7	1861.3	1841.1	1842.0	1831.0
5°	2104.0	2060.7	1962.6	1839.0	1743.7	1645.4	1560.8	1476.5	1426.7	1410.5	1395.3
7.5°	2035.0	1966.3	1810.0	1619.4	1458.2	1300.6	1163.5	1042.9	966.5	929.3	915.5
10°	1957.1	1860.6	1634.4	1383.3	1153.1	939.9	762.2	607.7	546.0	504.2	493.5
12.5°	1888.7	1758.0	1462.7	1141.2	867.9	610.7	441.3	345.1	303.2	286.7	284.0
15°	1824.3	1662.2	1297.5	921.9	601.0	375.9	280.6	248.0	238.2	235.4	235.4
17.5°	1763.5	1570.8	1136.0	706.0	397.6	263.5	232.4	225.1	222.0	221.7	222.0
20°	1700.0	1479.5	977.2	517.3	277.6	223.2	214.7	210.7	209.8	209.8	209.8
22.5°	1639.3	1388.2	822.7	369.5	222.6	203.7	199.4	196.7	195.7	195.4	194.8
25°	1580.9	1301.5	671.8	261.1	195.4	186.6	182.9	179.3	176.5	175.0	174.1
27.5°	1533.0	1224.2	531.4	209.5	176.5	168.9	164.3	158.8	152.1	149.0	147.8
30°	1494.8	1153.7	409.5	176.8	158.8	151.2	144.1	134.7	124.9	119.7	119.4
32.5°	1464.9	1084.4	310.9	156.4	142.9	133.4	123.4	111.5	100.2	94.4	94.1
35°	1450.2	1023.3	237.6	141.4	128.9	117.0	104.4	91.3	80.3	74.8	74.2
37.5°	1460.0	971.7	185.4	128.9	117.0	103.2	88.6	74.8	65.0	60.2	59.9
40°	1495.7	938.7	150.5	118.2	106.9	90.1	74.2	61.4	53.1	49.2	48.9
42.5°	1571.8	926.5	128.6	109.3	97.1	77.9	61.7	50.7	43.1	40.3	39.7
45°	1698.8	944.5	113.6	100.8	87.0	66.3	51.0	41.5	34.8	32.7	32.4
47.5°	1868.0	991.9	102.9	92.5	77.9	55.9	42.4	33.6	28.4	26.3	26.0
50°	2086.0	1067.0	94.1	84.3	69.3	47.3	35.1	26.6	22.0	20.5	20.5
52.5°	2323.3	1156.5	86.1	76.6	60.8	39.4	28.4	20.5	17.4	15.6	15.6
55°	2519.3	1234.6	77.6	70.8	50.4	32.7	21.7	15.6	12.8	11.9	11.9
57.5°	2715.1	1318.0	67.8	60.8	40.3	26.6	16.5	11.6	9.5	8.9	8.9
60°	2968.9	1420.0	58.3	49.5	31.8	20.2	12.2	8.2	7.0	6.7	6.7
62.5°	3248.0	1479.8	49.8	39.7	24.7	15.0	8.9	5.5	5.2	5.2	4.9
65°	3418.7	1395.3	41.8	31.8	19.2	11.3	5.8	4.0	4.6	4.3	3.7
67.5°	3200.9	1092.3	34.2	24.7	15.0	8.6	3.7	2.7	4.9	4.0	3.1
70°	2650.3	764.7	26.6	17.4	11.9	7.3	2.4	1.8	5.2	4.0	2.4
72.5°	1983.4	511.8	21.1	11.6	8.9	6.4	2.1	0.9	4.6	3.4	2.1
75°	1083.8	206.1	16.8	7.3	5.5	4.6	1.5	0.6	3.1	2.4	1.5
77.5°	285.2	54.4	12.2	4.9	3.1	1.8	0.9	0.3	1.5	1.2	0.6
80°	72.7	21.1	7.9	3.4	2.1	0.9	0.0	0.0	0.3	0.0	0.0
82.5°	38.8	8.9	4.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.3	5.8	2.7	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	1.8	0.9	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)