

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: P382831

Luminaire Tested: **GLEON-SA2A-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8883.2 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

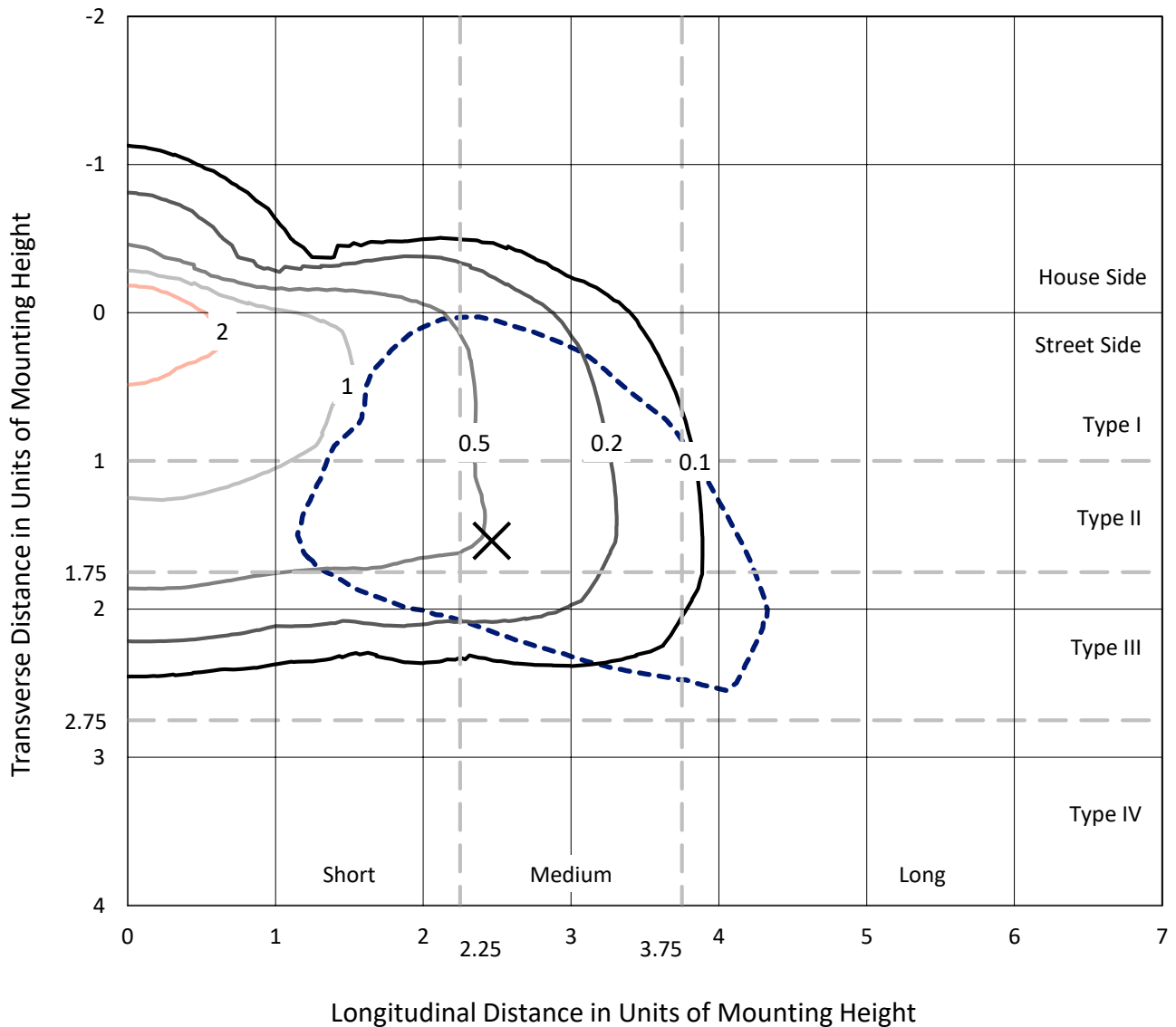
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

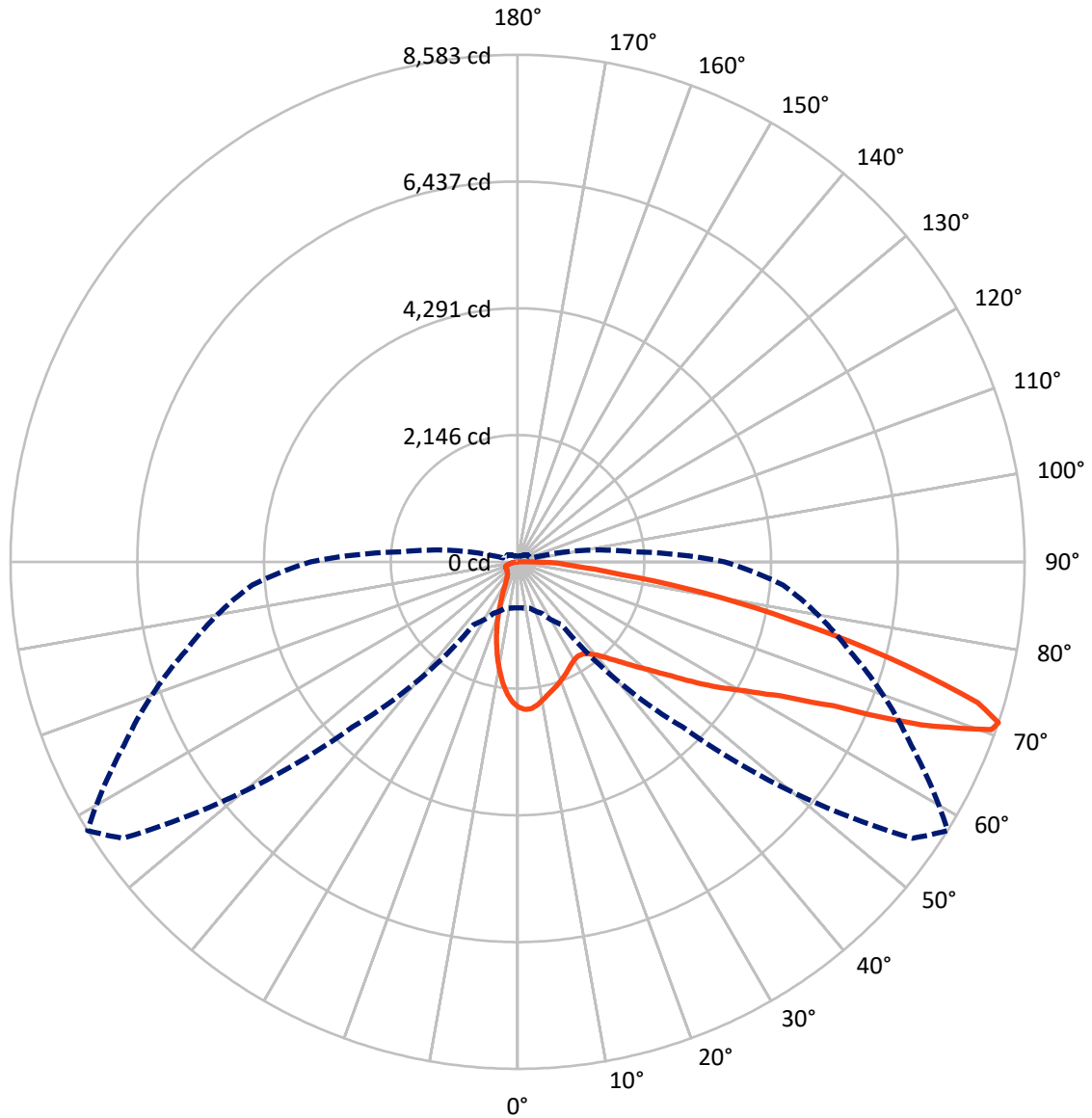
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1328.1	0.0	1328.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	7555.1	0.0	7555.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	8883.2	0.0	8883.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	2.4
10°-20°	472.1	5.3
20°-30°	600.0	6.8
30°-40°	764.3	8.6
40°-50°	1083.9	12.2
50°-60°	1677.3	18.9
60°-70°	2283.5	25.7
70°-80°	1523.3	17.1
80°-90°	266.3	3.0
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°	8883.2	100.0
0°-180°	8883.2	100.0

Coefficient of Utilization

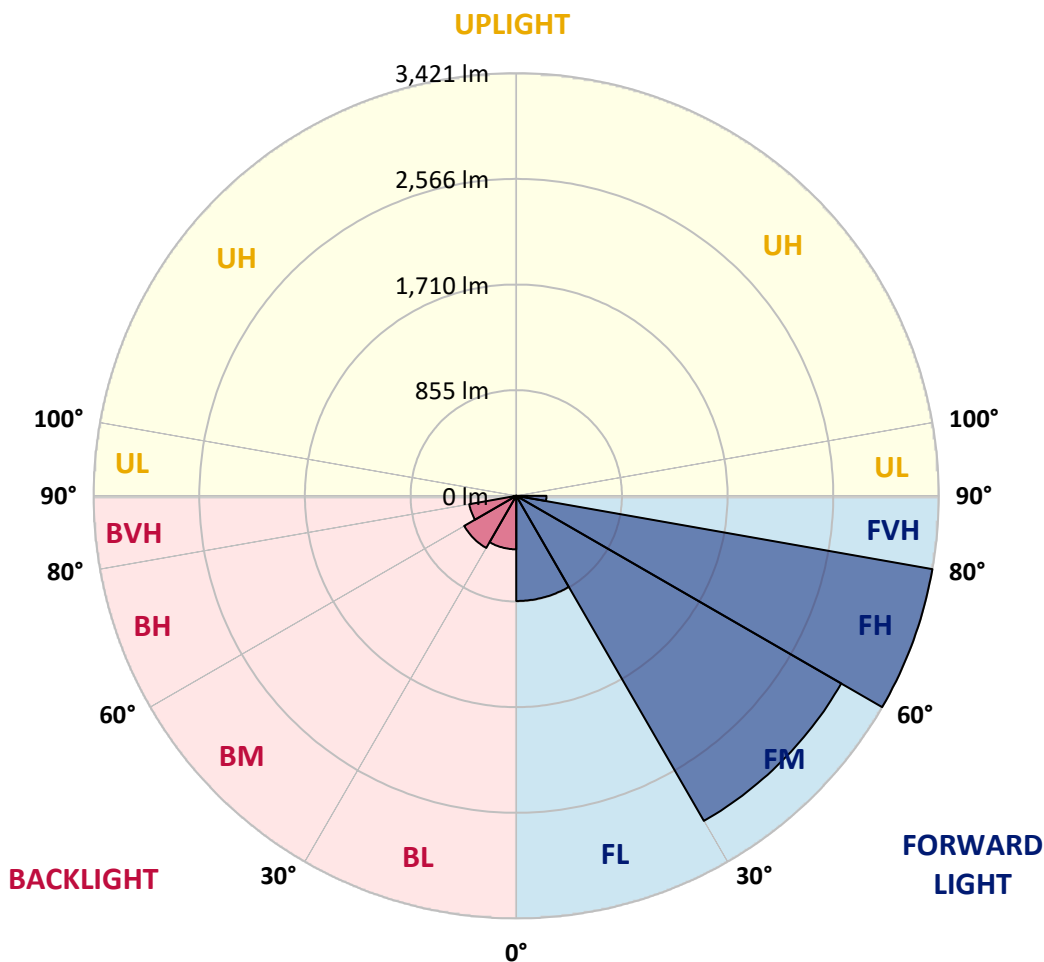


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	851.6	9.6			
FM (30°-60°)	3038.5	34.2			
FH (60°-80°)	3420.8	38.5			G2/5000
FVH (80°-90°)	244.2	2.7			G3/500
BL (0°-30°)	432.9	4.9	B1/500		
BM (30°-60°)	487.1	5.5	B1/1000		
BH (60°-80°)	386.0	4.3	B1/500		G1/500
BVH (80°-90°)	22.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2
2.5°	2526.5	2523.1	2524.4	2521.9	2516.0	2510.1	2501.5	2503.1	2491.0	2473.0	2450.7
5°	2478.8	2477.6	2487.0	2492.2	2496.5	2493.1	2490.7	2493.8	2476.1	2451.4	2412.7
7.5°	2379.0	2365.3	2377.1	2394.7	2411.4	2424.1	2440.8	2443.0	2431.9	2405.9	2355.1
10°	2236.9	2223.9	2241.2	2268.8	2302.2	2332.5	2366.2	2372.5	2374.6	2351.1	2289.6
12.5°	2089.6	2079.7	2097.0	2135.8	2191.1	2237.9	2291.7	2300.9	2320.1	2304.4	2228.8
15°	1957.8	1954.1	1975.2	2013.2	2076.9	2148.4	2226.1	2243.1	2275.6	2270.4	2181.5
17.5°	1843.9	1843.0	1859.1	1899.0	1969.6	2059.9	2160.8	2189.6	2237.9	2244.0	2142.6
20°	1759.1	1757.3	1768.4	1797.8	1870.5	1972.9	2090.2	2129.9	2199.5	2221.1	2102.3
22.5°	1713.7	1713.3	1713.7	1727.6	1787.0	1882.3	2021.6	2069.8	2162.0	2202.8	2057.8
25°	1705.9	1705.0	1698.2	1696.6	1730.3	1806.5	1953.5	2006.6	2126.4	2190.2	2015.3
27.5°	1726.1	1727.3	1718.3	1703.7	1710.6	1756.7	1894.4	1951.3	2097.9	2187.7	1986.0
30°	1767.8	1767.1	1759.4	1744.3	1731.0	1738.1	1852.3	1909.2	2078.7	2198.5	1965.8
32.5°	1813.9	1817.4	1815.8	1807.4	1787.6	1759.1	1839.6	1895.3	2073.3	2224.5	1957.2
35°	1869.3	1873.0	1884.1	1890.7	1867.5	1821.6	1866.8	1915.1	2089.3	2273.4	1971.1
37.5°	1921.9	1931.5	1962.8	1990.3	1970.5	1919.5	1939.2	1973.6	2139.1	2350.5	2008.5
40°	1982.5	1990.9	2042.0	2100.5	2097.4	2044.5	2055.9	2078.7	2227.1	2461.0	2076.3
42.5°	2042.2	2059.0	2133.0	2215.9	2239.7	2193.0	2211.2	2223.3	2350.8	2607.3	2194.5
45°	2121.8	2139.8	2242.5	2342.5	2398.1	2371.8	2400.9	2405.5	2506.4	2806.6	2366.2
47.5°	2242.1	2262.6	2382.3	2487.2	2572.4	2575.1	2623.1	2621.2	2700.7	3034.6	2582.5
50°	2429.7	2459.1	2557.2	2655.3	2758.6	2816.2	2880.3	2871.2	2933.7	3277.6	2831.6
52.5°	2675.4	2689.0	2761.8	2834.1	2962.5	3091.5	3183.5	3175.5	3198.0	3527.2	3114.4
55°	2930.1	2940.2	2970.2	3009.9	3182.5	3393.0	3587.3	3574.6	3517.3	3786.6	3393.9
57.5°	3159.1	3179.7	3200.5	3216.9	3404.1	3707.9	4000.3	4001.3	3864.0	4066.3	3682.6
60°	3194.6	3212.9	3349.9	3479.3	3783.2	4128.2	4442.6	4433.3	4222.5	4369.9	4004.4
62.5°	2823.9	2865.1	3094.0	3438.2	4148.3	4896.8	5006.7	4995.2	4651.4	4744.0	4379.1
65°	2023.7	2070.5	2346.8	2863.9	3971.3	5743.7	6024.7	5870.6	5236.2	5204.1	4817.9
67.5°	1167.5	1178.6	1298.4	1713.7	3023.8	5788.0	7577.8	7362.1	6144.5	5726.1	5032.7
70°	863.4	863.0	891.5	1054.5	1636.3	4723.9	8316.4	8509.8	7100.6	5897.8	4729.1
71°	780.7	781.7	813.5	959.9	1295.9	3954.0	8159.5	8582.8	7352.5	5813.0	4509.4
72.5°	667.7	670.9	715.1	860.8	1090.1	2726.7	7483.7	8144.6	7471.9	5603.9	4165.6
75°	506.6	513.7	575.0	725.6	996.4	1382.9	5492.5	6503.7	6637.7	4944.7	3095.3
77.5°	361.4	369.5	438.8	610.2	947.2	1042.2	3678.2	4744.0	4884.8	3168.9	1396.2
80°	228.3	237.9	290.3	485.5	889.9	989.6	2311.4	3188.7	2663.7	1014.0	355.2
82.5°	134.0	141.4	180.1	317.2	726.9	953.1	1360.0	1767.5	1036.6	306.4	161.5
85°	77.7	81.0	112.3	202.1	527.9	899.5	999.2	988.0	449.9	149.8	76.4
87.5°	36.2	40.2	66.5	105.5	293.1	652.0	789.7	682.3	279.7	70.2	35.9
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°	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2	2461.2
2.5°	2439.9	2434.6	2412.7	2393.1	2372.7	2346.1	2316.8	2313.0	2295.1	2298.5	2292.3
5°	2391.7	2378.3	2325.4	2277.4	2220.8	2170.0	2115.0	2089.6	2053.1	2050.6	2041.3
7.5°	2322.6	2297.8	2215.9	2124.9	2033.9	1947.3	1861.6	1805.2	1747.7	1723.3	1721.1
10°	2244.9	2202.8	2082.2	1947.6	1816.4	1689.8	1567.3	1476.6	1394.9	1356.2	1354.7
12.5°	2171.3	2109.1	1943.6	1760.3	1580.9	1416.9	1248.9	1129.8	1027.3	992.9	978.4
15°	2108.8	2021.3	1808.7	1574.4	1356.5	1128.8	937.6	812.3	717.6	684.8	678.6
17.5°	2048.2	1935.5	1670.4	1386.6	1123.3	873.0	681.3	588.3	537.8	524.5	524.2
20°	1987.8	1847.4	1525.8	1194.4	897.6	652.9	523.9	482.1	465.1	463.5	461.0
22.5°	1919.5	1753.9	1373.9	1001.6	700.5	513.4	445.3	428.6	426.4	432.0	432.0
25°	1855.4	1661.0	1219.8	812.9	545.0	428.2	397.6	394.2	400.1	410.0	410.9
27.5°	1795.7	1571.6	1069.4	645.2	436.6	377.2	364.5	368.5	379.0	390.5	390.8
30°	1746.5	1487.1	923.3	508.4	368.9	339.2	336.9	345.0	356.5	365.4	367.6
32.5°	1708.4	1415.0	782.2	408.8	324.6	310.7	312.5	319.3	326.4	331.4	334.8
35°	1690.8	1353.2	652.0	344.7	296.4	288.7	291.2	294.9	298.0	301.7	304.5
37.5°	1693.8	1305.2	535.6	304.8	277.6	273.5	273.5	273.5	273.5	275.4	275.7
40°	1722.6	1277.6	440.9	279.5	264.8	260.6	257.1	254.0	251.6	252.8	252.2
42.5°	1796.3	1275.2	371.6	263.3	254.7	247.5	240.7	236.4	233.4	234.6	235.2
45°	1921.3	1306.1	324.9	251.9	245.1	234.3	225.6	221.0	218.7	222.8	223.4
47.5°	2083.1	1373.6	296.4	243.5	236.1	221.9	212.6	208.3	208.9	214.7	216.3
50°	2291.7	1483.1	282.8	238.3	229.9	211.4	201.8	198.0	199.9	208.3	210.1
52.5°	2520.7	1640.9	284.4	236.7	225.9	203.6	193.4	189.1	192.2	199.9	201.4
55°	2785.0	1830.6	310.0	238.8	220.0	198.7	186.6	179.1	181.7	188.7	190.0
57.5°	3078.6	2047.8	361.7	238.3	212.6	194.0	179.5	168.3	170.2	174.5	175.8
60°	3384.3	2310.2	441.8	240.2	209.1	188.5	169.9	155.9	155.4	159.0	159.7
62.5°	3751.2	2613.8	533.5	241.4	211.4	181.4	157.2	143.6	141.7	142.6	143.3
65°	4129.5	2833.5	499.1	236.4	218.2	175.4	146.1	131.5	128.1	127.5	127.8
67.5°	4141.2	2598.0	350.0	226.6	221.0	172.3	137.7	121.3	115.7	113.6	113.3
70°	3713.8	2110.7	272.6	216.0	209.8	167.4	130.0	112.9	104.6	101.2	100.9
71°	3505.3	1942.9	258.4	210.7	201.4	162.5	126.6	109.3	100.6	96.9	96.2
72.5°	3178.3	1741.8	241.1	202.3	185.4	149.8	120.1	104.0	95.0	90.6	89.7
75°	2280.9	1139.0	207.0	180.4	153.5	119.4	105.2	93.4	85.7	80.5	79.8
77.5°	878.8	453.3	156.6	150.1	117.6	93.4	86.6	80.8	75.2	70.0	69.6
80°	271.6	202.7	114.2	112.9	85.1	69.6	67.4	66.0	63.7	58.1	56.9
82.5°	145.1	116.4	78.6	73.0	55.7	46.4	48.9	49.5	49.8	44.0	43.3
85°	69.3	61.6	44.2	41.5	32.5	26.0	30.0	32.5	32.8	26.9	25.1
87.5°	33.1	32.1	20.8	15.7	12.1	8.7	10.5	13.0	14.3	10.2	8.9
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)