

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: P451185

Luminaire Tested: **GALN-SA2A-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 9115 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

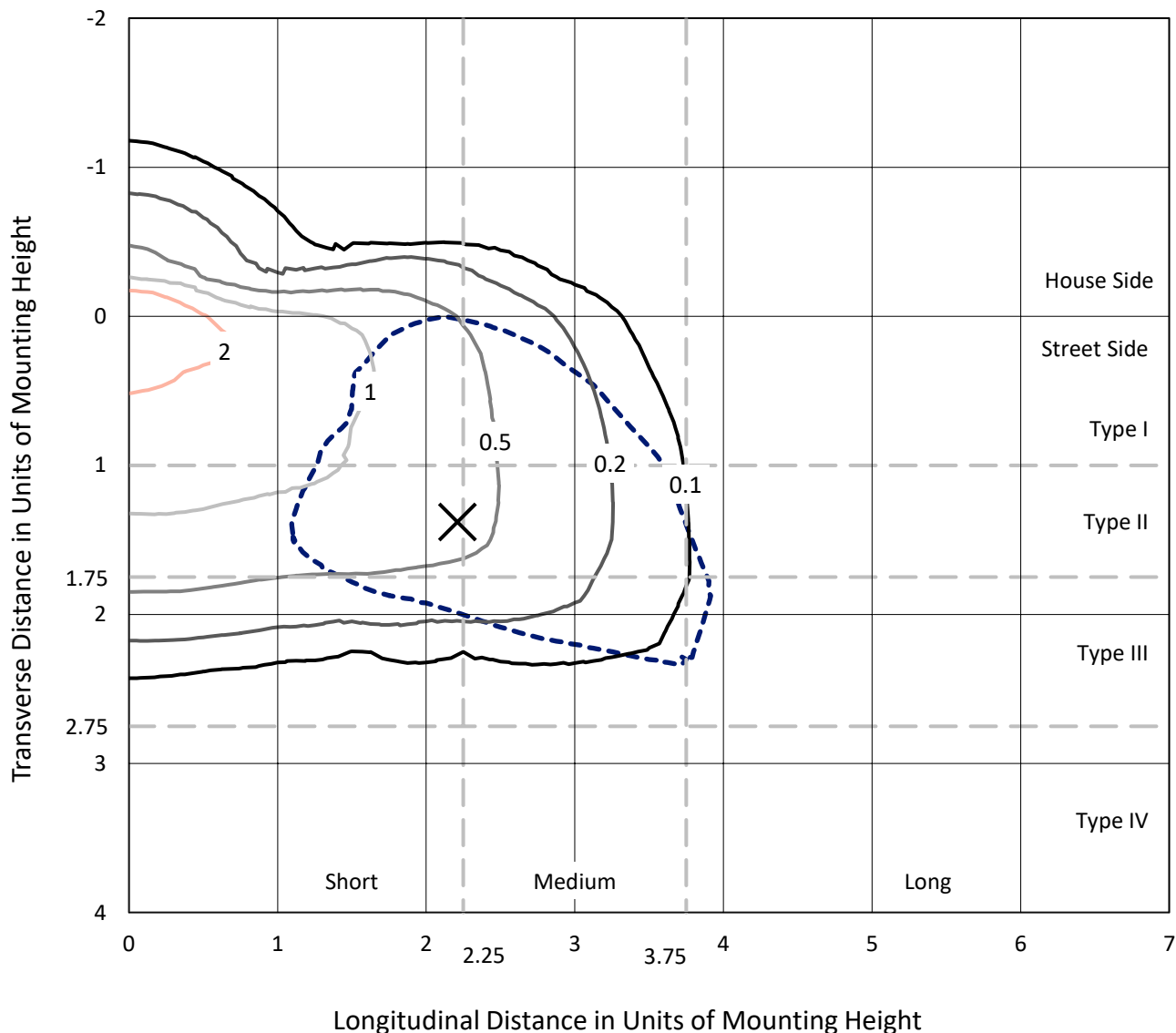
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

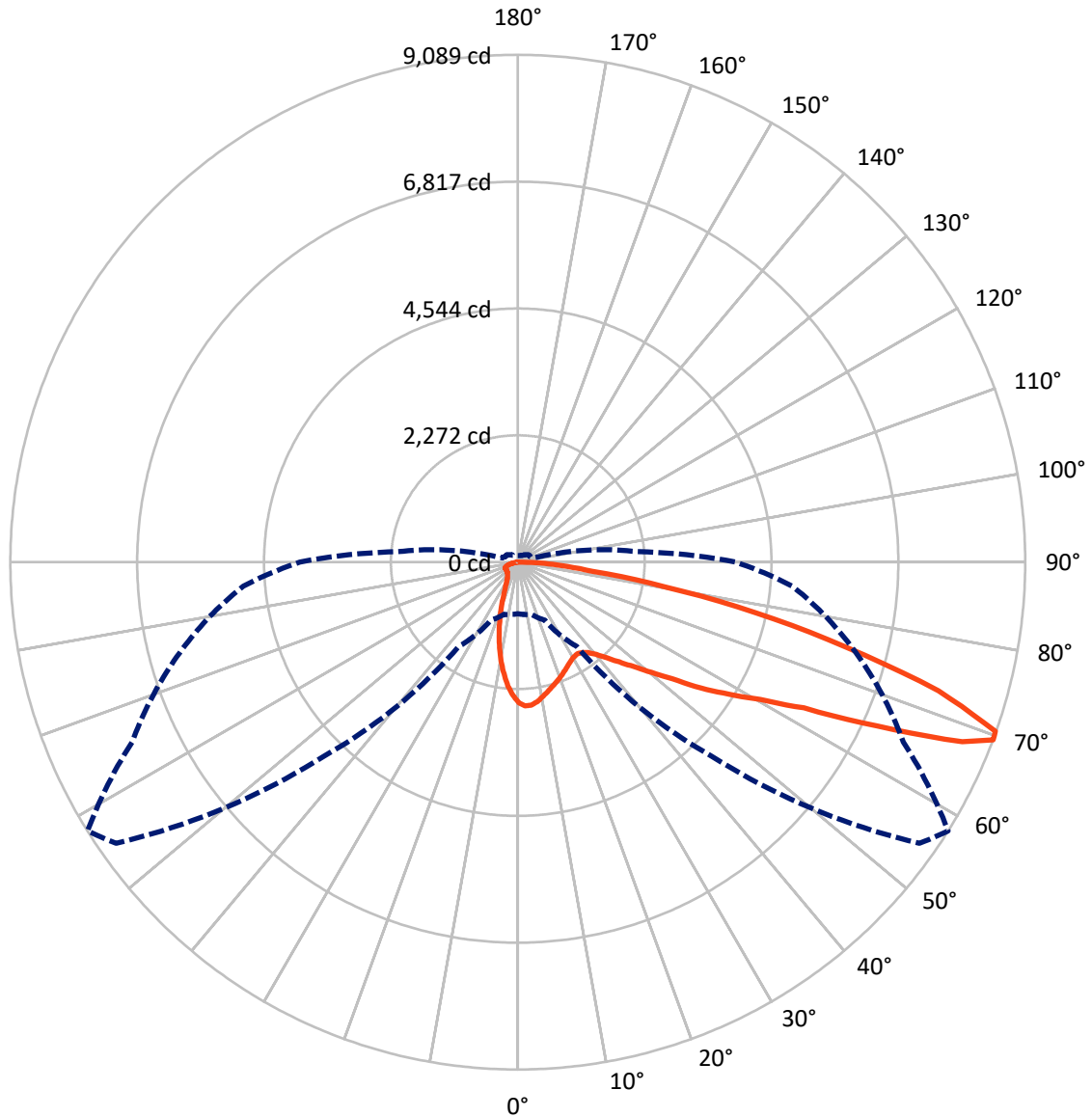
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1335.8	0.0	1335.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7779.2	0.0	7779.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	9115.0	0.0	9115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	2.3
10°-20°	469.7	5.2
20°-30°	606.9	6.7
30°-40°	788.2	8.6
40°-50°	1145.9	12.6
50°-60°	1828.6	20.1
60°-70°	2442.7	26.8
70°-80°	1408.1	15.4
80°-90°	210.9	2.3
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°	9115.0	100.0
0°-180°	9115.0	100.0

Coefficient of Utilization



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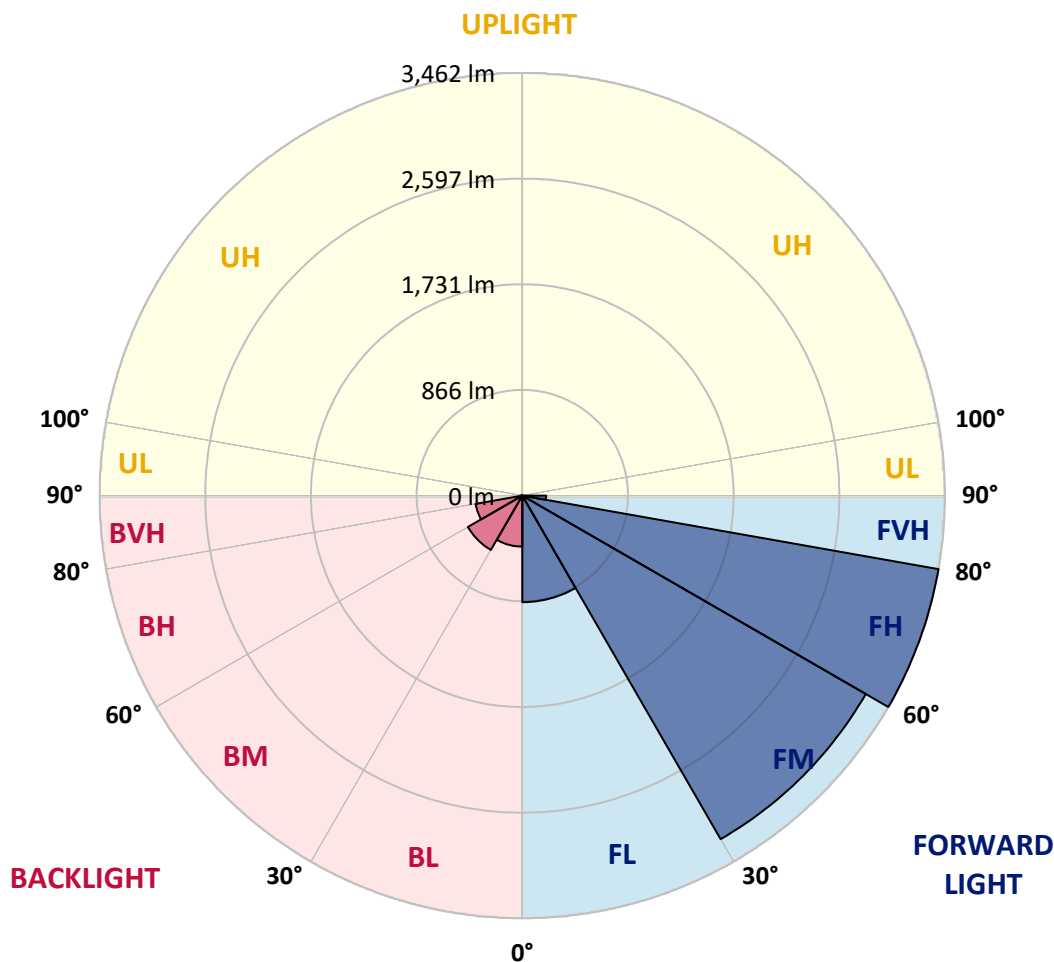
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.0	9.6			
FM (30°-60°)	3249.0	35.6			
FH (60°-80°)	3462.4	38.0			G2/5000
FVH (80°-90°)	194.8	2.1			G2/225
BL (0°-30°)	417.5	4.6	B1/500		
BM (30°-60°)	513.7	5.6	B1/1000		
BH (60°-80°)	388.4	4.3	B1/500		G1/500
BVH (80°-90°)	16.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9
2.5°	2612.4	2619.5	2617.5	2614.9	2610.9	2599.7	2581.4	2578.3	2566.6	2541.7	2510.7
5°	2572.2	2578.3	2578.8	2582.4	2587.5	2585.4	2572.2	2570.7	2553.4	2519.9	2468.0
7.5°	2434.5	2442.6	2460.4	2480.2	2498.0	2514.8	2518.9	2521.4	2510.7	2472.1	2402.9
10°	2279.4	2287.6	2295.7	2325.2	2368.9	2410.6	2445.1	2449.7	2452.3	2416.7	2332.3
12.5°	2107.6	2124.4	2141.7	2185.4	2243.8	2309.4	2370.4	2380.1	2397.4	2370.4	2271.3
15°	1961.7	1979.0	2003.9	2043.0	2113.7	2208.3	2294.2	2309.9	2344.0	2330.3	2214.4
17.5°	1860.5	1866.6	1883.9	1928.7	2004.9	2104.6	2219.4	2251.0	2305.3	2301.8	2165.6
20°	1780.7	1788.4	1799.0	1826.5	1905.8	2011.0	2149.8	2190.5	2264.2	2276.4	2117.3
22.5°	1747.2	1752.8	1751.3	1766.0	1819.9	1925.6	2079.1	2127.4	2227.6	2259.1	2072.5
25°	1749.2	1754.3	1746.7	1743.1	1775.1	1850.4	2005.4	2066.9	2198.1	2247.4	2031.9
27.5°	1783.3	1786.8	1772.6	1758.4	1760.9	1803.6	1944.4	2012.5	2173.2	2252.5	1997.8
30°	1829.0	1835.6	1826.5	1809.2	1790.4	1792.4	1905.3	1972.4	2161.5	2270.3	1981.5
32.5°	1888.0	1894.1	1890.0	1876.3	1851.9	1825.0	1895.6	1957.6	2162.5	2306.4	1978.0
35°	1950.0	1962.2	1968.8	1967.8	1948.0	1901.2	1933.7	1985.1	2186.9	2366.9	1998.8
37.5°	2020.2	2030.3	2058.8	2077.1	2058.8	2004.4	2019.7	2055.2	2240.8	2454.3	2044.6
40°	2088.3	2103.5	2145.2	2202.2	2195.0	2147.3	2150.8	2174.2	2335.8	2584.4	2134.0
42.5°	2159.5	2177.8	2250.4	2334.8	2351.6	2314.5	2324.2	2345.0	2471.1	2764.9	2287.6
45°	2251.0	2272.8	2362.3	2467.5	2533.6	2510.7	2538.2	2548.3	2652.0	2999.7	2489.9
47.5°	2368.9	2394.3	2504.6	2635.8	2729.3	2750.1	2797.9	2791.8	2876.2	3277.8	2752.2
50°	2567.7	2581.9	2686.1	2819.8	2948.4	3042.4	3094.3	3104.0	3154.3	3548.3	3045.5
52.5°	2804.0	2816.7	2892.0	3008.9	3170.0	3369.3	3497.4	3465.9	3478.1	3877.7	3388.6
55°	3069.9	3091.2	3139.0	3216.8	3425.7	3719.1	3976.3	3983.9	3848.7	4192.8	3717.5
57.5°	3275.8	3311.9	3393.7	3504.5	3769.4	4107.9	4453.6	4458.7	4285.9	4529.4	4080.5
60°	3172.1	3214.8	3401.8	3671.8	4220.3	4786.6	5024.0	4995.0	4711.3	4912.7	4523.3
62.5°	2724.7	2732.4	3004.3	3426.2	4359.1	5694.5	5872.9	5750.4	5279.2	5398.6	4973.1
65°	1763.5	1813.3	2028.8	2620.0	3903.1	6198.3	7360.3	7077.2	6075.2	5950.2	5349.8
67.5°	1113.3	1100.6	1190.0	1496.1	2684.6	5754.5	8629.7	8584.9	7116.3	6298.4	5259.9
69°	923.2	937.4	967.9	1146.8	1847.3	4913.2	8779.6	9088.7	7621.1	6271.0	4933.0
70°	837.2	843.9	875.9	1016.7	1425.4	4115.1	8533.6	9075.0	7819.4	6156.1	4696.1
72.5°	664.4	663.9	718.8	845.9	1065.5	2349.1	7007.0	7878.8	7597.7	5621.3	3880.2
75°	504.8	512.9	573.4	715.8	981.6	1283.6	4889.8	6067.6	6068.1	4439.9	2421.3
77.5°	364.0	369.1	439.7	600.9	924.7	1040.6	3257.0	4351.9	4091.2	2034.4	761.0
80°	238.4	241.5	295.3	475.8	833.7	981.6	1931.2	2663.7	1929.7	539.9	251.6
82.5°	130.6	145.9	180.5	308.1	669.0	906.9	1173.8	1348.1	723.9	240.4	131.2
85°	65.6	69.6	101.7	180.0	437.2	750.3	817.4	773.2	373.6	119.5	68.1
87.5°	19.3	24.4	42.2	69.6	177.4	390.9	455.0	408.2	143.9	43.2	14.2
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°	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9	2518.9
2.5°	2498.0	2488.9	2448.2	2411.6	2378.0	2342.5	2312.5	2286.0	2288.6	2289.1	2262.1
5°	2441.1	2420.2	2343.0	2270.8	2209.8	2132.5	2066.4	2023.7	2002.4	1973.9	1984.1
7.5°	2363.8	2323.6	2216.4	2096.4	1984.1	1883.9	1775.1	1700.4	1652.6	1606.4	1612.5
10°	2284.0	2219.4	2063.4	1904.8	1759.4	1599.3	1460.5	1341.5	1253.1	1220.0	1198.2
12.5°	2202.2	2117.3	1919.0	1708.0	1507.2	1315.6	1118.9	991.3	893.7	841.8	848.4
15°	2127.4	2024.2	1768.5	1511.3	1250.5	1022.3	826.1	704.6	636.4	622.2	630.3
17.5°	2058.3	1923.1	1627.7	1320.2	1015.7	766.6	620.7	552.1	524.6	517.0	516.5
20°	1987.1	1837.2	1469.6	1115.8	791.5	594.3	509.4	477.3	472.3	475.3	475.8
22.5°	1914.9	1730.9	1307.0	913.0	630.3	486.0	445.3	436.7	440.7	447.9	448.9
25°	1848.3	1637.4	1150.4	735.1	503.3	427.0	407.2	407.2	416.3	427.0	427.5
27.5°	1793.4	1546.9	994.3	583.6	421.4	384.3	377.7	381.3	394.0	402.1	402.6
30°	1748.2	1462.5	846.9	467.7	370.6	350.3	348.7	354.8	364.0	371.6	372.1
32.5°	1714.1	1388.3	709.1	393.0	335.5	324.3	323.8	328.4	333.5	335.5	337.5
35°	1700.9	1326.8	583.1	345.7	312.1	305.0	305.0	304.5	306.5	307.5	308.6
37.5°	1711.6	1279.5	485.5	315.2	294.8	289.8	286.7	283.7	282.6	282.6	283.1
40°	1756.8	1254.6	412.8	295.3	282.6	275.0	269.4	265.9	262.3	263.3	264.3
42.5°	1852.9	1259.2	363.5	282.1	272.0	261.3	253.2	249.1	246.5	249.6	249.1
45°	2005.9	1304.9	331.9	273.0	261.3	247.6	239.9	235.9	235.9	240.4	242.0
47.5°	2219.9	1392.4	315.2	265.9	253.2	236.9	229.3	226.2	227.2	234.9	235.4
50°	2481.2	1544.4	312.1	262.3	249.1	229.3	220.6	217.6	220.1	228.2	229.3
52.5°	2769.5	1740.1	326.9	262.8	245.5	224.7	213.5	208.9	211.5	218.1	220.1
55°	3111.1	1985.1	365.0	264.8	240.4	222.1	208.4	198.3	201.3	205.9	206.4
57.5°	3459.8	2294.2	432.1	265.4	236.4	217.6	199.8	186.6	186.6	189.6	191.1
60°	3885.8	2630.7	520.5	265.9	236.9	211.0	188.1	173.3	171.3	172.8	173.3
62.5°	4308.7	2912.3	535.3	264.3	242.0	204.4	175.4	160.1	156.6	156.1	155.0
65°	4495.3	2860.0	438.7	257.2	247.6	200.3	165.2	147.4	141.3	139.3	139.3
67.5°	4191.3	2419.2	329.9	247.6	244.0	196.2	155.6	136.7	129.6	125.6	125.6
69°	3905.6	2151.8	296.4	241.0	234.9	189.6	149.5	131.2	122.5	117.9	116.4
70°	3685.0	1967.8	282.1	235.4	226.2	182.0	144.9	127.1	117.4	112.3	111.3
72.5°	2940.8	1543.8	247.1	214.0	192.7	153.0	128.6	114.4	105.2	99.6	98.1
75°	1694.8	836.7	204.9	186.1	155.0	119.0	108.8	99.6	92.5	87.4	85.9
77.5°	521.6	323.3	148.4	146.9	113.9	92.0	86.9	83.4	78.3	72.7	71.7
80°	219.6	164.7	100.7	99.1	75.7	64.1	62.5	62.0	60.0	55.4	53.9
82.5°	120.5	93.0	70.2	61.0	45.8	37.1	38.6	39.1	37.6	33.0	30.0
85°	59.0	50.8	34.1	27.5	20.8	13.2	12.7	15.3	14.2	10.2	11.2
87.5°	11.7	14.2	9.2	4.1	2.0	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)