

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: P451386

Luminaire Tested: **GALN-SA2B-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10402 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

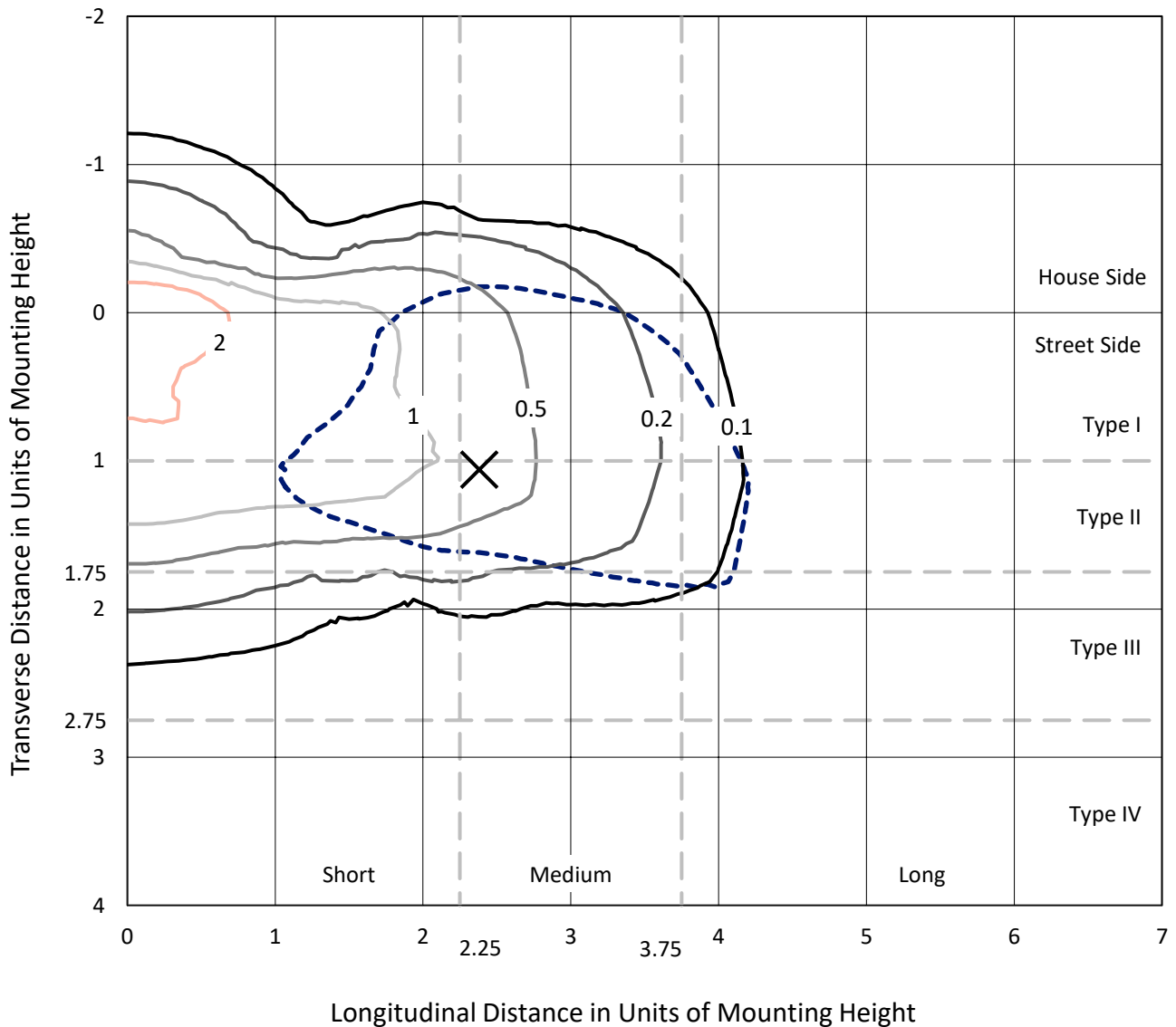
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

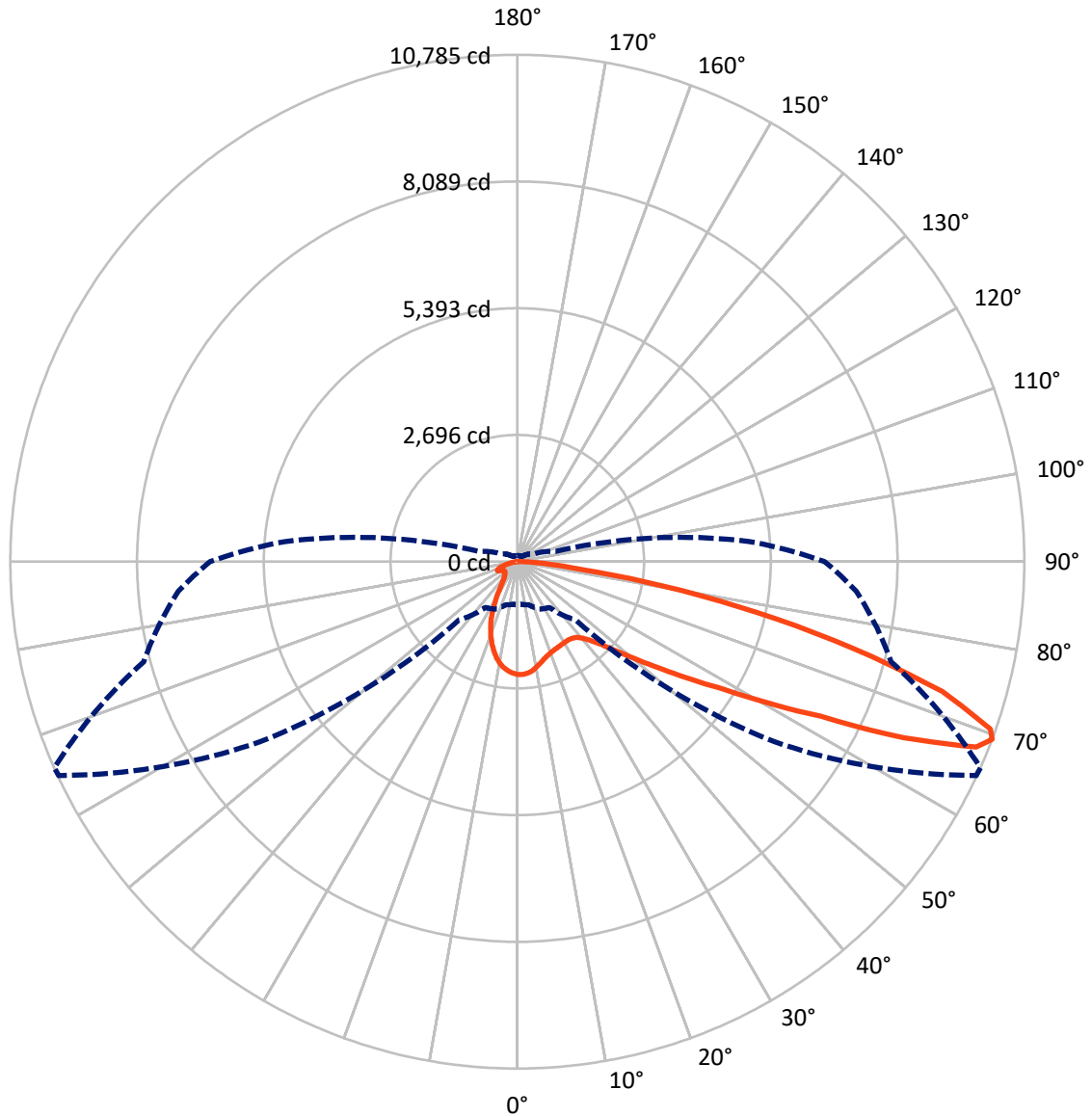
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1956.2	0.0	1956.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8445.8	0.0	8445.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	10402.0	0.0	10402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	2.0
10°-20°	494.8	4.8
20°-30°	673.6	6.5
30°-40°	905.1	8.7
40°-50°	1351.5	13.0
50°-60°	2149.8	20.7
60°-70°	2644.1	25.4
70°-80°	1720.4	16.5
80°-90°	254.1	2.4
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°	10402.0	100.0
0°-180°	10402.0	100.0

Coefficient of Utilization



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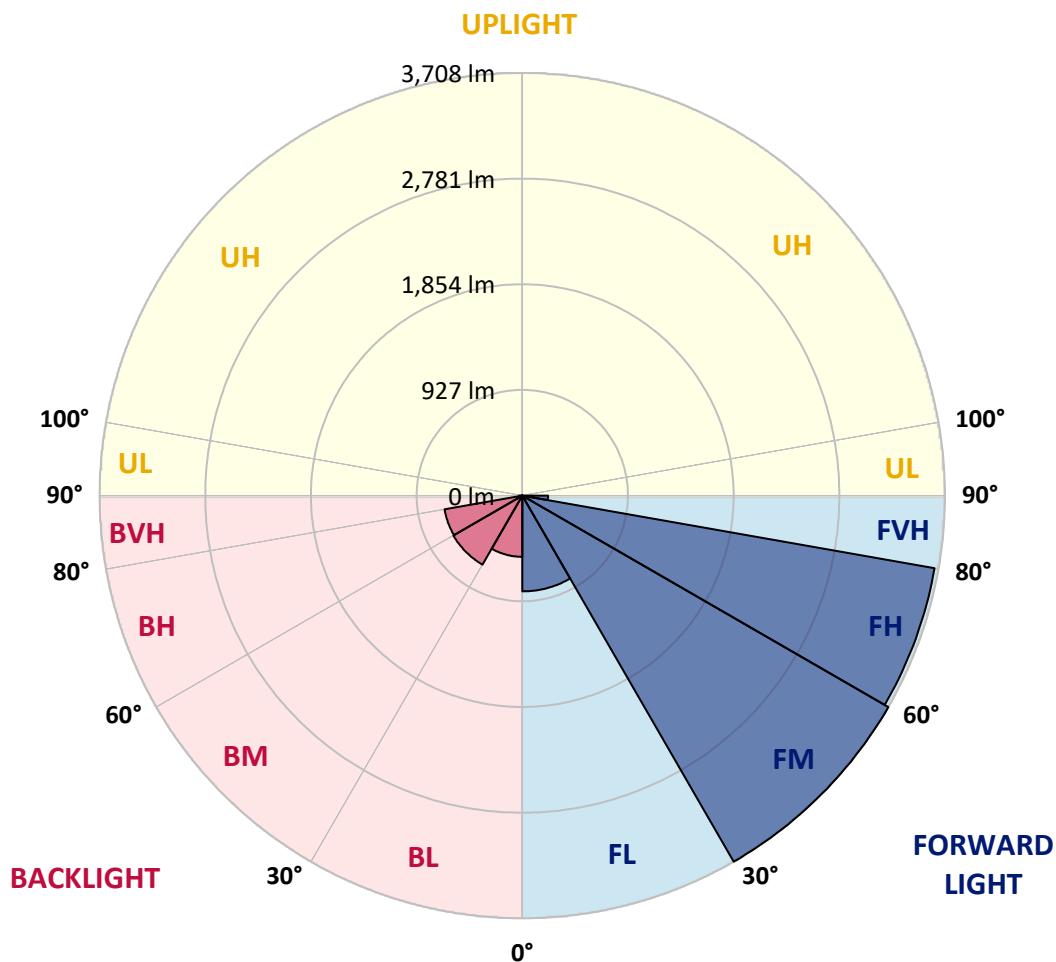
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	840.0	8.1			
FM	(30°-60°)	3708.0	35.6			
FH	(60°-80°)	3672.0	35.3			G2/5000
FVH	(80°-90°)	225.9	2.2			G3/500
BL	(0°-30°)	537.0	5.2	B2/1000		
BM	(30°-60°)	698.5	6.7	B1/1000		
BH	(60°-80°)	692.6	6.7	B2/1000		G2/1000
BVH	(80°-90°)	28.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1
2.5°	2318.0	2327.2	2337.6	2349.1	2371.0	2383.1	2391.7	2401.5	2402.7	2407.9	2403.8
5°	2146.9	2157.9	2173.4	2195.3	2228.1	2279.4	2332.4	2375.6	2380.8	2405.0	2411.9
7.5°	2004.1	2010.4	2023.1	2058.2	2104.9	2161.9	2239.1	2326.6	2339.3	2396.9	2417.1
10°	1887.7	1894.0	1909.0	1945.3	1991.4	2062.8	2147.5	2262.7	2273.1	2372.2	2418.2
12.5°	1800.7	1806.5	1822.6	1858.3	1911.3	1978.1	2071.5	2193.6	2208.6	2339.3	2407.3
15°	1734.5	1745.4	1758.7	1788.0	1843.9	1908.4	1998.9	2130.2	2142.3	2304.8	2399.8
17.5°	1706.2	1711.4	1720.6	1747.7	1788.6	1852.0	1943.0	2080.7	2095.1	2280.6	2398.1
20°	1707.4	1712.6	1714.3	1729.3	1758.7	1813.4	1903.3	2041.5	2058.8	2259.3	2401.0
22.5°	1746.6	1747.1	1740.8	1735.6	1747.1	1792.7	1875.0	2012.1	2032.3	2250.0	2403.3
25°	1807.1	1817.4	1808.2	1784.0	1762.7	1784.6	1864.1	1996.0	2015.0	2236.8	2400.4
27.5°	1905.0	1906.7	1899.2	1866.4	1811.1	1795.0	1859.5	1983.9	2000.0	2227.0	2386.0
30°	2036.3	2031.1	2024.2	1987.9	1901.0	1834.7	1869.3	1973.0	1989.7	2212.6	2368.7
32.5°	2169.4	2185.5	2179.2	2136.6	2023.6	1911.9	1901.0	1971.8	1985.6	2201.6	2349.7
35°	2310.5	2318.0	2348.0	2326.1	2210.3	2036.9	1960.3	1989.7	2000.6	2202.2	2336.4
37.5°	2421.1	2441.3	2511.6	2530.6	2421.7	2202.2	2056.5	2040.4	2045.0	2230.4	2341.6
40°	2554.8	2589.3	2679.8	2757.5	2686.1	2417.1	2220.1	2134.2	2140.0	2298.4	2375.6
42.5°	2724.1	2748.3	2869.9	2975.3	2963.8	2701.1	2418.2	2288.1	2290.9	2433.8	2470.7
45°	2922.3	2956.8	3093.4	3251.8	3278.9	3022.5	2704.5	2520.8	2519.0	2644.1	2648.1
47.5°	3175.7	3197.1	3332.4	3505.2	3614.7	3426.3	3051.9	2854.9	2836.4	2950.5	2917.7
50°	3409.0	3442.4	3545.0	3733.9	4006.4	3899.3	3508.7	3288.1	3244.9	3351.4	3296.1
52.5°	3507.0	3542.1	3628.5	3863.0	4342.2	4511.0	4088.8	3804.8	3732.8	3814.6	3794.4
55°	3337.0	3382.5	3463.2	3748.3	4489.7	5216.7	4871.0	4402.1	4349.7	4314.6	4320.3
57.5°	2880.2	2923.4	3032.3	3346.8	4313.4	5728.8	5988.0	5170.0	5057.7	4895.8	4923.5
60°	2192.4	2219.5	2276.0	2624.5	3791.0	5861.8	7256.4	6140.6	6069.2	5474.7	5494.3
62.5°	1557.1	1587.6	1626.8	1800.7	2775.4	5486.8	8249.6	7496.1	7240.9	6074.4	6055.4
65°	1264.4	1243.7	1290.9	1372.1	1628.5	4252.4	8473.1	9377.4	9026.1	6864.2	6600.3
67.5°	1039.8	1017.9	1064.5	1209.1	1238.5	2468.4	7667.7	10598.7	10528.4	7723.0	7153.9
69°	920.5	909.0	949.9	1114.6	1189.0	1752.9	6679.8	10768.6	10785.3	8229.4	7239.2
70°	829.5	834.1	873.9	1066.8	1166.5	1445.3	5709.2	10534.1	10675.9	8482.3	7147.0
72.5°	610.6	620.4	675.7	883.7	1145.2	1226.4	3397.5	9201.2	9451.8	8497.3	6538.1
75°	426.8	422.2	471.2	665.3	1081.8	1215.5	1995.4	7115.9	7399.9	7344.6	5493.7
77.5°	279.4	286.9	326.0	470.1	910.2	1206.2	1300.7	5048.5	5232.8	4911.9	3249.5
80°	197.0	196.4	218.3	320.9	675.1	1159.0	1065.1	3182.1	3135.4	1930.3	963.7
82.5°	112.9	121.0	146.3	225.8	451.6	1020.2	979.9	1521.9	1389.4	550.1	325.5
85°	62.8	65.7	87.0	136.5	263.8	768.4	855.4	692.4	653.2	229.8	140.0
87.5°	20.2	21.9	36.3	69.1	119.8	362.9	484.5	319.7	294.9	83.0	56.5
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°	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1	2402.1
2.5°	2405.6	2412.5	2394.0	2376.2	2360.1	2337.6	2317.4	2300.7	2289.2	2287.5	2281.7
5°	2413.6	2414.2	2379.1	2331.8	2285.7	2235.1	2182.6	2145.2	2110.1	2090.5	2080.7
7.5°	2419.4	2414.2	2350.8	2274.2	2185.5	2093.4	2001.2	1927.4	1870.4	1848.0	1856.6
10°	2417.1	2401.0	2308.2	2185.5	2056.5	1918.8	1786.3	1682.6	1587.6	1538.6	1539.8
12.5°	2404.4	2377.9	2244.9	2085.9	1896.3	1712.0	1509.2	1369.3	1259.2	1194.1	1174.0
15°	2393.5	2347.4	2170.5	1950.5	1714.9	1451.6	1204.5	1031.7	939.5	888.3	887.7
17.5°	2381.9	2318.0	2089.3	1807.1	1506.4	1167.6	908.4	776.5	733.3	738.5	729.8
20°	2369.9	2283.4	2004.6	1647.5	1252.3	871.0	680.3	626.7	638.8	662.5	665.9
22.5°	2356.0	2246.6	1913.6	1471.8	985.0	655.5	551.9	543.8	574.9	611.8	616.9
25°	2334.7	2200.5	1799.0	1288.0	759.8	528.2	483.3	489.1	519.6	550.7	554.2
27.5°	2304.8	2143.5	1683.2	1058.8	570.9	453.3	441.8	449.3	464.3	483.3	487.9
30°	2264.4	2078.9	1550.1	860.6	457.4	415.9	411.3	415.3	424.0	432.0	434.3
32.5°	2224.1	2016.7	1415.9	659.0	407.8	391.1	386.5	386.5	386.5	387.7	388.3
35°	2186.7	1958.0	1271.9	513.3	381.9	371.5	365.2	358.3	357.1	353.1	353.1
37.5°	2165.9	1904.4	1118.7	429.7	362.9	355.4	346.8	335.3	328.9	329.5	328.3
40°	2170.0	1869.3	979.3	382.5	347.4	339.3	326.0	312.8	308.8	308.8	307.6
42.5°	2215.5	1857.7	845.6	357.7	332.4	323.2	306.5	294.4	292.1	291.5	292.6
45°	2320.3	1886.0	725.8	341.6	319.7	305.9	289.2	278.2	275.9	275.9	275.3
47.5°	2524.8	1977.6	640.0	331.2	310.5	292.6	275.3	264.4	260.4	259.2	259.2
50°	2842.8	2176.3	576.0	322.0	299.0	280.5	262.7	250.0	243.7	243.1	242.5
52.5°	3284.6	2486.2	551.3	315.1	286.3	267.9	248.3	236.2	228.1	226.4	225.2
55°	3801.3	2918.8	585.3	309.9	273.0	253.5	233.3	220.6	213.1	209.7	209.1
57.5°	4399.8	3438.4	714.3	303.0	260.9	237.9	218.3	205.6	197.6	193.6	192.4
60°	4937.3	3972.4	939.5	299.0	250.6	221.2	201.0	189.5	182.0	178.0	177.4
62.5°	5527.7	4481.6	1208.5	309.9	246.0	205.1	184.9	174.5	168.2	164.2	164.2
65°	6158.5	4991.4	1386.5	346.8	252.9	192.4	167.6	159.0	153.2	150.3	149.8
67.5°	6583.6	5167.7	1142.3	384.8	270.2	178.6	150.9	144.0	140.6	137.7	137.7
69°	6537.5	4944.8	842.8	394.6	275.3	171.7	141.7	136.5	131.9	130.8	129.6
70°	6391.8	4690.7	706.2	388.3	271.3	165.3	135.9	129.6	125.6	124.4	123.8
72.5°	5693.1	4068.0	525.9	337.6	231.0	143.4	120.4	114.6	111.2	109.4	109.4
75°	4729.9	3324.9	410.7	268.4	180.9	121.0	103.1	98.5	95.6	94.5	93.9
77.5°	2651.0	1856.6	294.9	210.3	137.1	97.9	86.4	82.4	79.5	78.3	78.3
80°	738.5	530.5	173.4	138.8	93.3	74.3	68.5	65.7	61.6	58.8	60.5
82.5°	278.2	229.8	99.1	83.5	59.3	49.5	47.8	45.5	43.8	39.7	39.7
85°	135.4	111.8	63.4	44.4	32.8	25.9	24.8	23.6	22.5	19.6	20.2
87.5°	46.7	49.5	27.7	16.1	9.8	6.3	5.2	2.9	2.9	2.9	2.9
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)