

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: P527609

Luminaire Tested: **GALN-SA2C-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6078 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

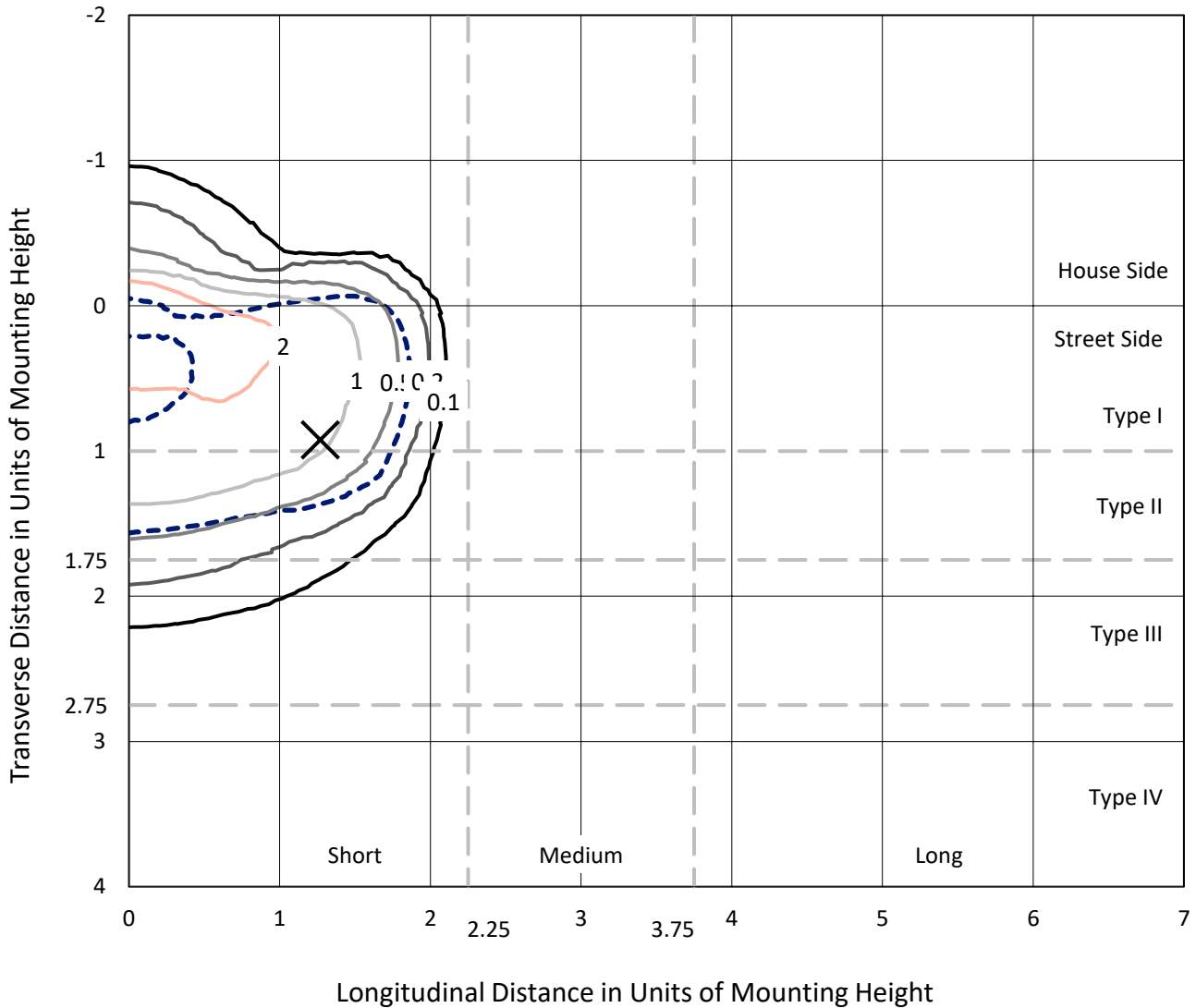
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

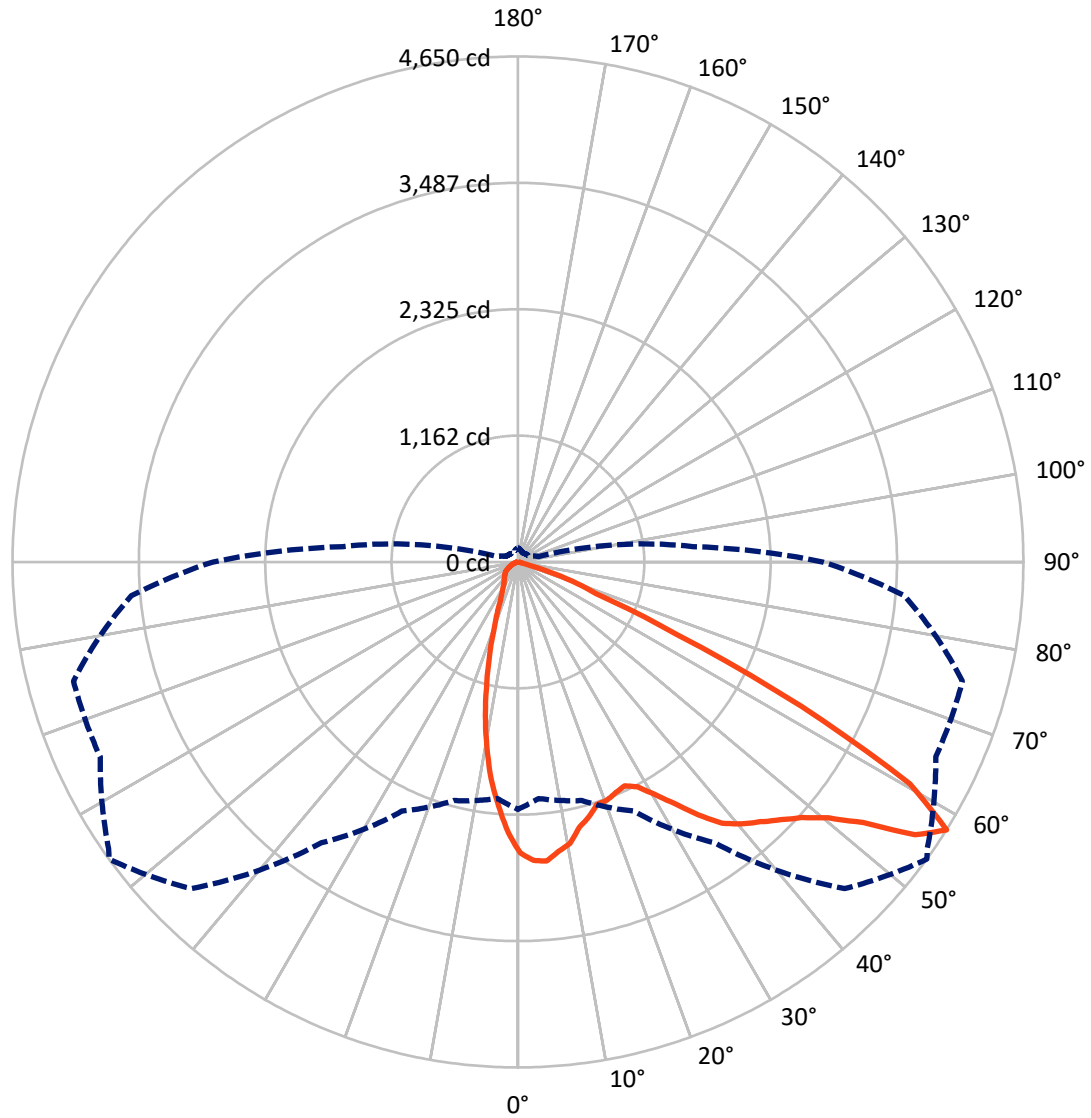
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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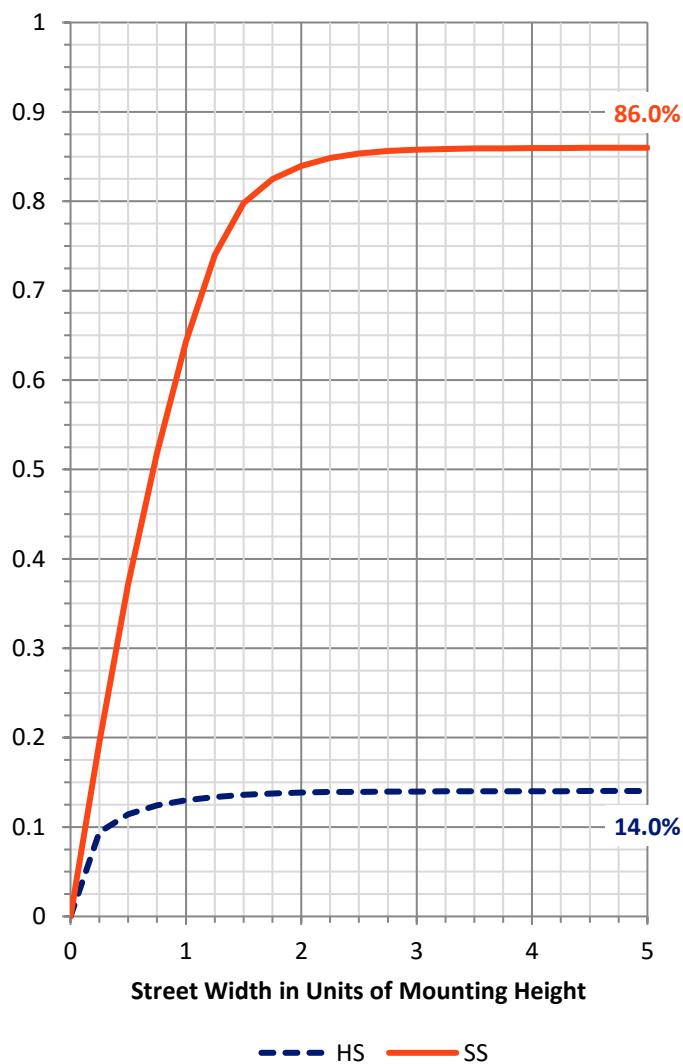
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.9	0.0	858.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5219.1	0.0	5219.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	6078.0	0.0	6078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	3.7
10°-20°	478.3	7.9
20°-30°	633.9	10.4
30°-40°	921.2	15.2
40°-50°	1366.1	22.5
50°-60°	1708.2	28.1
60°-70°	673.8	11.1
70°-80°	67.1	1.1
80°-90°	5.2	0.1
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°	6078.0	100.0
0°-180°	6078.0	100.0

Coefficient of Utilization



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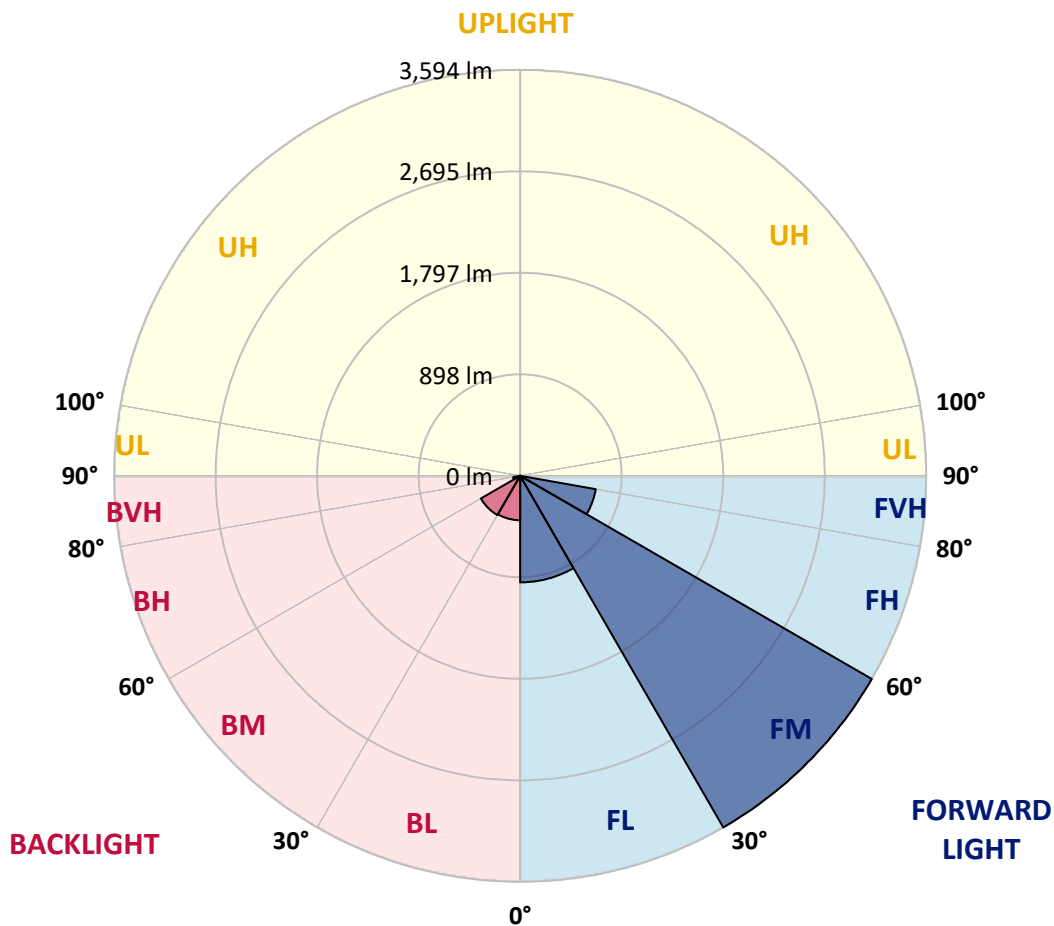
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	943.5	15.5			
FM (30°-60°)	3593.9	59.1			
FH (60°-80°)	679.3	11.2			G1/1800
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	392.8	6.5	B1/500		
BM (30°-60°)	401.7	6.6	B1/1000		
BH (60°-80°)	61.6	1.0	B0/110		G0/110
BVH (80°-90°)	2.9	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4
2.5°	2833.4	2804.0	2806.3	2796.1	2782.5	2792.7	2748.6	2758.8	2757.7	2697.8	2658.2
5°	2762.2	2793.9	2761.1	2788.2	2762.2	2790.5	2763.3	2743.0	2710.2	2666.1	2592.7
7.5°	2641.3	2610.8	2619.8	2653.7	2659.4	2722.6	2688.7	2714.7	2701.2	2614.1	2513.6
10°	2398.3	2391.5	2436.7	2481.9	2537.3	2605.1	2631.1	2616.4	2606.2	2573.5	2439.0
12.5°	2211.8	2231.0	2229.9	2304.5	2398.3	2436.7	2504.5	2502.3	2558.8	2497.7	2368.9
15°	2034.4	2044.5	2092.0	2138.3	2242.3	2351.9	2435.6	2446.9	2514.7	2471.7	2314.6
17.5°	1925.9	1911.2	1948.5	2003.8	2110.1	2253.6	2346.3	2373.4	2466.1	2457.1	2252.5
20°	1818.5	1818.5	1849.0	1914.6	2011.8	2173.4	2338.4	2330.5	2466.1	2440.1	2185.8
22.5°	1782.3	1800.4	1808.3	1858.0	1973.3	2112.3	2304.5	2319.2	2485.3	2432.2	2156.4
25°	1832.1	1808.3	1810.6	1850.1	1958.6	2083.0	2279.6	2312.4	2520.3	2471.7	2132.7
27.5°	1840.0	1863.7	1870.5	1897.6	1969.9	2092.0	2341.8	2408.5	2607.4	2564.4	2139.5
30°	1908.9	1932.6	1931.5	1977.8	2027.6	2165.5	2480.8	2494.3	2787.1	2680.8	2181.3
32.5°	1992.5	2017.4	2025.3	2079.6	2119.1	2300.0	2650.3	2685.4	2960.0	2863.9	2290.9
35°	2096.5	2087.5	2123.6	2177.9	2262.7	2496.6	2857.1	2915.9	3146.5	3101.3	2403.9
37.5°	2226.5	2215.2	2250.2	2338.4	2453.7	2729.4	3048.1	3086.6	3282.1	3321.7	2613.0
40°	2318.0	2322.6	2428.8	2547.5	2669.5	2950.9	3169.1	3206.4	3377.0	3527.4	2771.2
42.5°	2470.6	2498.9	2626.6	2771.2	2899.0	3117.1	3267.4	3303.6	3421.1	3692.4	2984.9
45°	2692.1	2679.7	2821.0	2982.6	3123.9	3290.0	3383.8	3371.4	3447.1	3856.2	3119.3
47.5°	2976.9	2979.2	3073.0	3210.9	3357.8	3440.3	3513.8	3469.7	3501.4	4029.2	3299.1
50°	3171.3	3188.3	3264.0	3405.3	3478.8	3605.3	3699.1	3672.0	3661.8	4133.1	3412.1
52.5°	3221.1	3271.9	3312.6	3488.9	3660.7	3860.8	3980.6	4038.2	3857.4	4168.2	3555.6
55°	2845.8	2891.0	3034.6	3276.4	3729.7	4265.4	4430.4	4431.5	4112.8	4324.1	3656.2
57.5°	2275.1	2183.5	2271.7	2528.3	3153.3	4248.4	4649.6	4596.5	4240.5	4232.6	3569.2
60°	1573.2	1550.6	1556.3	1658.0	2182.4	3379.3	4143.3	4212.3	3904.8	3668.6	2825.5
62.5°	1246.6	1227.4	1202.5	1191.2	1355.1	2105.6	2922.7	3019.9	2730.6	2379.1	1675.0
65°	976.5	965.2	968.6	1013.8	1012.7	1194.6	1598.1	1558.5	1247.7	922.2	526.7
67.5°	658.9	675.9	689.4	826.2	896.2	831.8	771.9	749.3	405.7	170.7	116.4
70°	370.7	373.0	387.7	516.5	680.4	645.3	532.3	532.3	202.3	62.2	66.7
72.5°	202.3	195.5	182.0	222.6	302.9	307.4	237.3	206.8	59.9	40.7	37.3
75°	98.3	97.2	83.6	68.9	65.6	54.2	41.8	38.4	27.1	26.0	22.6
77.5°	20.3	19.2	10.2	10.2	11.3	12.4	15.8	15.8	19.2	19.2	15.8
80°	0.0	0.0	1.1	4.5	7.9	11.3	13.6	13.6	15.8	15.8	12.4
82.5°	0.0	0.0	1.1	3.4	6.8	10.2	12.4	13.6	15.8	17.0	13.6
85°	0.0	0.0	0.0	2.3	5.7	7.9	6.8	6.8	5.7	4.5	2.3
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4	2677.4
2.5°	2637.9	2635.6	2583.6	2554.2	2501.1	2454.8	2417.5	2390.4	2390.4	2373.4	2357.6
5°	2563.3	2544.1	2433.3	2362.1	2261.5	2186.9	2136.1	2096.5	2034.4	2051.3	1984.6
7.5°	2470.6	2422.0	2275.1	2166.6	2027.6	1921.3	1812.8	1716.8	1624.1	1582.3	1604.9
10°	2371.2	2286.4	2088.6	1916.8	1743.9	1549.5	1422.9	1269.2	1174.3	1168.6	1143.8
12.5°	2266.0	2170.0	1929.2	1691.9	1464.7	1230.8	1037.5	894.0	829.6	758.4	771.9
15°	2186.9	2044.5	1751.8	1465.9	1164.1	927.9	733.5	622.7	561.7	544.8	539.1
17.5°	2101.0	1948.5	1571.0	1225.1	913.2	667.9	527.8	474.7	450.9	450.9	447.6
20°	2011.8	1840.0	1391.3	1001.4	684.9	498.4	422.7	405.7	404.6	403.5	403.5
22.5°	1953.0	1715.6	1228.5	795.7	516.5	399.0	367.3	360.5	365.1	378.6	378.6
25°	1890.8	1595.8	1048.8	613.7	400.1	342.5	324.4	328.9	340.2	352.6	348.1
27.5°	1827.5	1517.9	879.3	481.5	327.8	299.5	292.7	302.9	315.3	326.6	323.2
30°	1812.8	1434.2	718.8	365.1	281.4	261.1	265.6	274.6	287.1	291.6	296.1
32.5°	1835.4	1368.7	588.8	299.5	245.3	239.6	239.6	244.1	252.0	262.2	258.8
35°	1899.9	1331.4	465.6	259.9	224.9	219.3	218.1	222.6	227.2	230.6	227.2
37.5°	1998.2	1302.0	380.9	230.6	211.3	202.3	200.0	198.9	203.4	204.6	206.8
40°	2123.6	1317.8	323.2	212.5	197.8	187.6	180.8	180.8	180.8	184.2	185.4
42.5°	2259.3	1339.3	279.2	202.3	185.4	172.9	166.1	163.9	166.1	170.7	169.5
45°	2401.7	1381.1	250.9	186.5	174.1	158.2	149.2	146.9	152.6	161.6	160.5
47.5°	2535.0	1441.0	229.4	176.3	162.7	148.1	136.8	134.5	144.7	157.1	158.2
50°	2668.4	1545.0	221.5	168.4	154.8	137.9	127.7	125.5	136.8	152.6	156.0
52.5°	2822.1	1656.9	215.9	158.2	145.8	130.0	118.7	116.4	128.8	149.2	150.3
55°	2922.7	1751.8	211.3	140.1	128.8	117.5	108.5	107.4	120.9	139.0	143.5
57.5°	2805.2	1619.6	195.5	122.1	109.6	104.0	96.1	96.1	107.4	124.3	127.7
60°	2127.0	1065.8	139.0	98.3	92.7	89.3	85.9	85.9	94.9	107.4	108.5
62.5°	1245.5	574.1	89.3	79.1	79.1	75.7	70.1	70.1	79.1	85.9	87.0
65°	369.6	184.2	72.3	67.8	66.7	61.0	55.4	54.2	61.0	64.4	63.3
67.5°	106.2	84.8	59.9	56.5	55.4	46.3	42.9	41.8	42.9	40.7	39.6
70°	63.3	57.6	46.3	47.5	41.8	33.9	30.5	29.4	27.1	23.7	21.5
72.5°	35.0	35.0	33.9	36.2	29.4	22.6	19.2	15.8	12.4	10.2	9.0
75°	21.5	22.6	23.7	24.9	19.2	14.7	12.4	7.9	4.5	2.3	2.3
77.5°	14.7	15.8	17.0	18.1	15.8	13.6	10.2	5.7	1.1	0.0	0.0
80°	11.3	12.4	14.7	15.8	17.0	18.1	13.6	5.7	1.1	0.0	0.0
82.5°	12.4	13.6	17.0	15.8	15.8	15.8	12.4	5.7	1.1	0.0	0.0
85°	2.3	3.4	5.7	5.7	7.9	10.2	7.9	2.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)