

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: P528077

Luminaire Tested: **GALN-SA3A-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528077
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-SA3A-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 5869 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

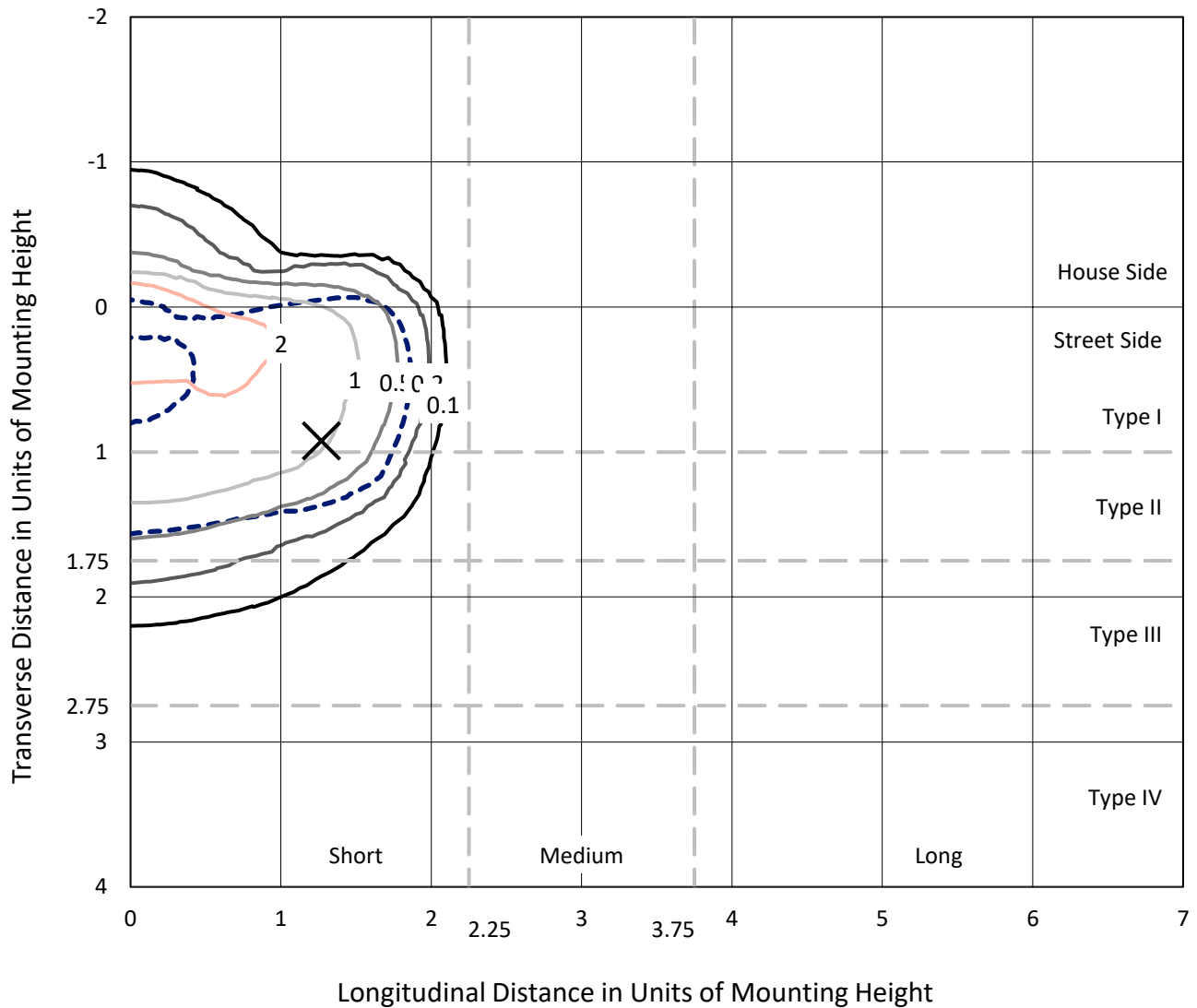
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

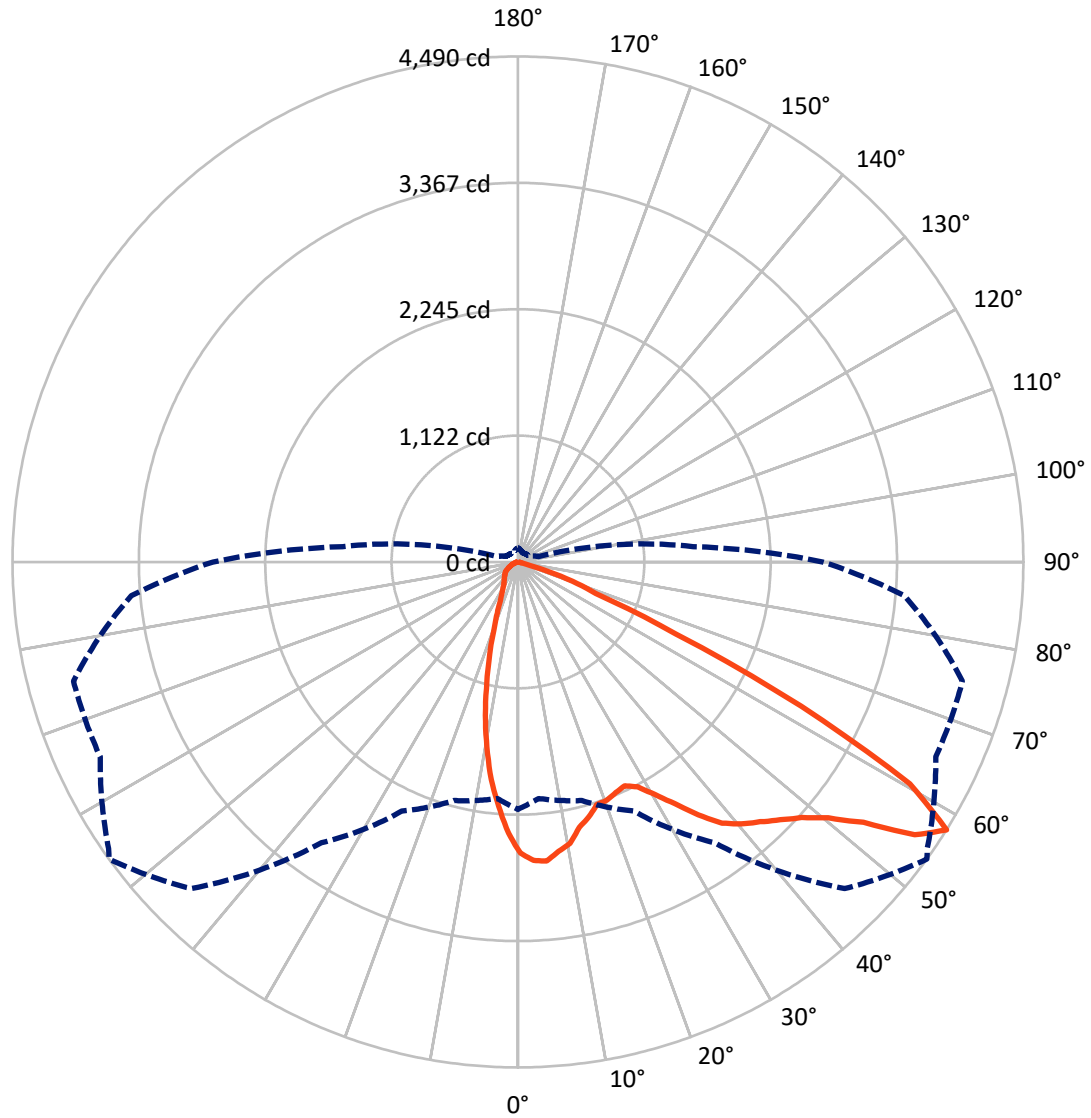
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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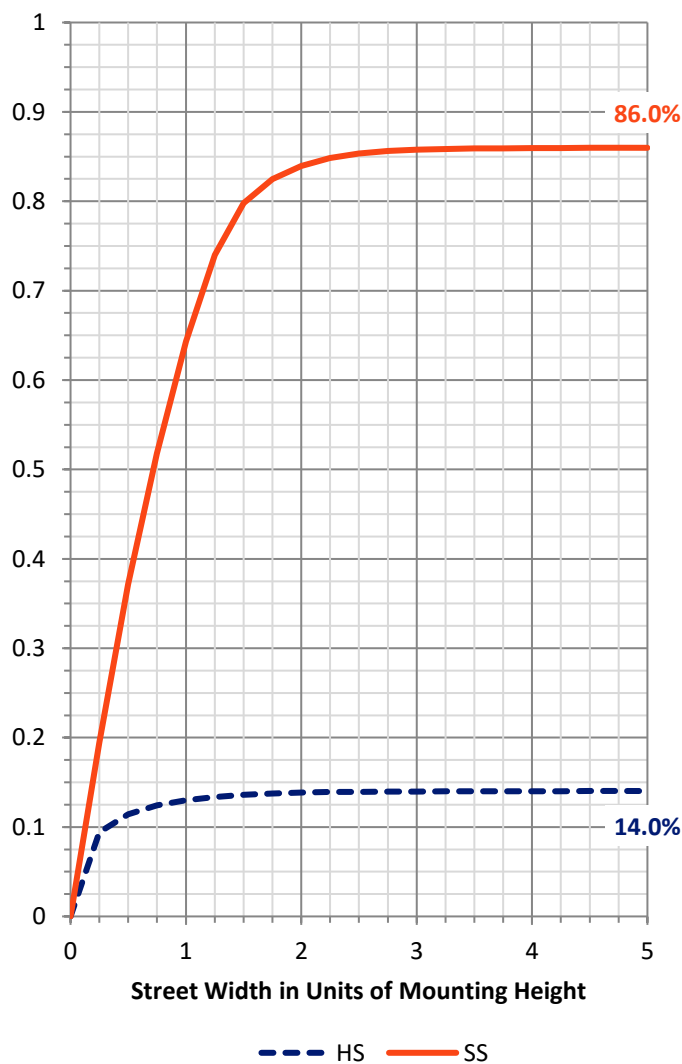
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	829.4	0.0	829.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5039.6	0.0	5039.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	5869.0	0.0	5869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	3.7
10°-20°	461.9	7.9
20°-30°	612.1	10.4
30°-40°	889.6	15.2
40°-50°	1319.1	22.5
50°-60°	1649.5	28.1
60°-70°	650.6	11.1
70°-80°	64.8	1.1
80°-90°	5.0	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°	5869.0	100.0
0°-180°	5869.0	100.0

Coefficient of Utilization



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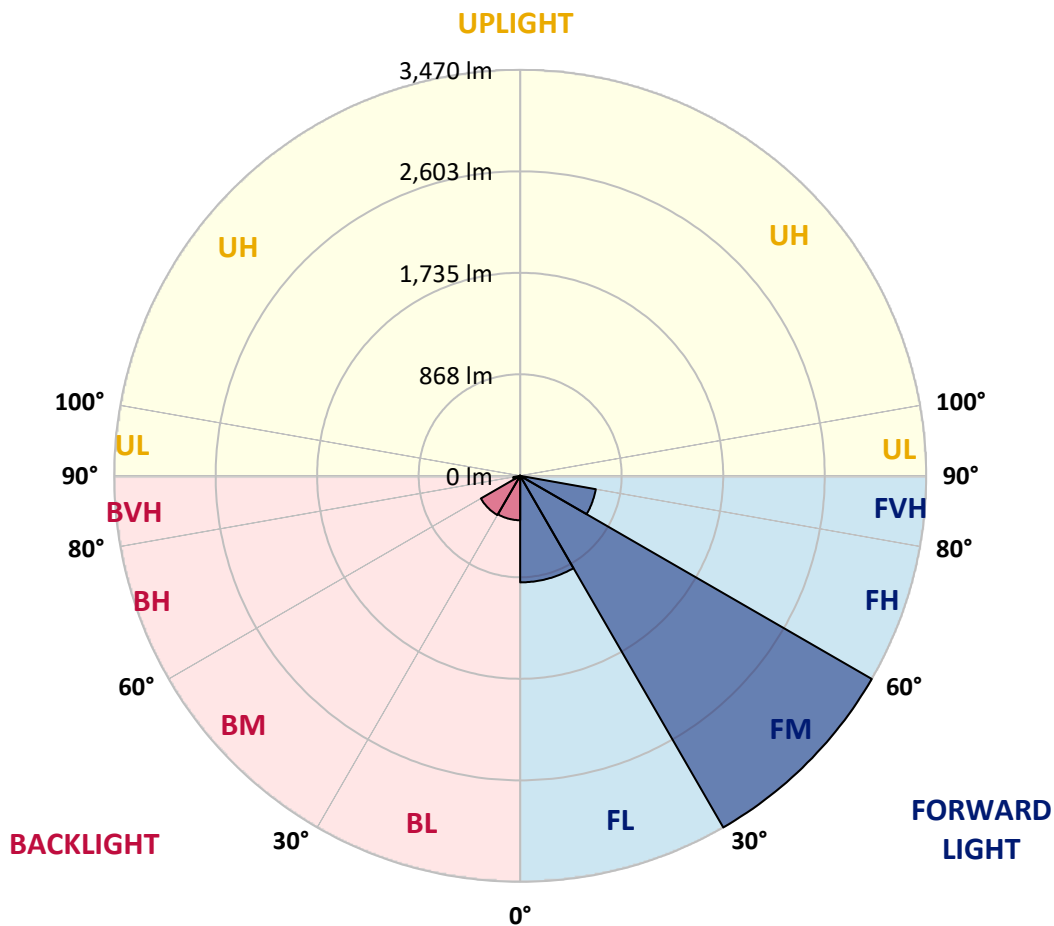
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.0	15.5			
FM (30°-60°)	3470.3	59.1			
FH (60°-80°)	656.0	11.2			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	379.3	6.5	B1/500		
BM (30°-60°)	387.8	6.6	B1/1000		
BH (60°-80°)	59.5	1.0	B0/110		G0/110
BVH (80°-90°)	2.8	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4
2.5°	2736.0	2707.6	2709.8	2700.0	2686.9	2696.7	2654.1	2663.9	2662.9	2605.0	2566.8
5°	2667.2	2697.8	2666.1	2692.3	2667.2	2694.5	2668.3	2648.7	2617.0	2574.5	2503.5
7.5°	2550.5	2521.0	2529.7	2562.5	2567.9	2629.0	2596.3	2621.4	2608.3	2524.3	2427.1
10°	2315.8	2309.3	2352.9	2396.6	2450.0	2515.5	2540.6	2526.4	2516.6	2485.0	2355.1
12.5°	2135.7	2154.3	2153.2	2225.2	2315.8	2352.9	2418.4	2416.2	2470.8	2411.9	2287.4
15°	1964.4	1974.2	2020.1	2064.8	2165.2	2271.1	2351.8	2362.7	2428.2	2386.8	2235.1
17.5°	1859.6	1845.4	1881.5	1934.9	2037.5	2176.1	2265.6	2291.8	2381.3	2372.6	2175.0
20°	1756.0	1756.0	1785.4	1848.7	1942.6	2098.6	2258.0	2250.3	2381.3	2356.2	2110.6
22.5°	1721.0	1738.5	1746.1	1794.2	1905.5	2039.7	2225.2	2239.4	2399.8	2348.6	2082.3
25°	1769.1	1746.1	1748.3	1786.5	1891.3	2011.3	2201.2	2232.9	2433.7	2386.8	2059.3
27.5°	1776.7	1799.6	1806.2	1832.4	1902.2	2020.1	2261.2	2325.6	2517.7	2476.2	2065.9
30°	1843.3	1866.2	1865.1	1909.8	1957.9	2091.0	2395.5	2408.6	2691.2	2588.6	2106.3
32.5°	1924.0	1948.0	1955.7	2008.1	2046.3	2220.9	2559.2	2593.0	2858.2	2765.4	2212.1
35°	2024.4	2015.7	2050.6	2103.0	2184.9	2410.8	2758.9	2815.6	3038.3	2994.6	2321.3
37.5°	2149.9	2139.0	2172.8	2258.0	2369.3	2635.6	2943.3	2980.4	3169.2	3207.4	2523.2
40°	2238.3	2242.7	2345.3	2459.9	2577.7	2849.5	3060.1	3096.1	3260.9	3406.1	2676.0
42.5°	2385.7	2412.9	2536.3	2676.0	2799.3	3009.9	3155.1	3190.0	3303.5	3565.4	2882.2
45°	2599.6	2587.6	2724.0	2880.0	3016.5	3176.9	3267.5	3255.5	3328.6	3723.6	3012.1
47.5°	2874.6	2876.8	2967.3	3100.5	3242.4	3322.0	3393.0	3350.4	3381.0	3890.6	3185.6
50°	3062.3	3078.7	3151.8	3288.2	3359.1	3481.4	3571.9	3545.7	3535.9	3991.0	3294.7
52.5°	3110.3	3159.4	3198.7	3369.0	3534.8	3728.0	3843.7	3899.3	3724.7	4024.8	3433.3
55°	2748.0	2791.6	2930.2	3163.8	3601.4	4118.7	4278.0	4279.1	3971.4	4175.4	3530.5
57.5°	2196.9	2108.5	2193.6	2441.3	3044.8	4102.3	4489.8	4438.5	4094.7	4087.1	3446.4
60°	1519.1	1497.3	1502.8	1601.0	2107.4	3263.1	4000.8	4067.4	3770.6	3542.5	2728.3
62.5°	1203.7	1185.2	1161.2	1150.3	1308.5	2033.2	2822.2	2916.0	2636.7	2297.3	1617.4
65°	942.9	932.0	935.3	978.9	977.8	1153.5	1543.1	1505.0	1204.8	890.5	508.6
67.5°	636.2	652.6	665.7	797.8	865.4	803.2	745.4	723.6	391.8	164.8	112.4
70°	358.0	360.1	374.3	498.7	657.0	623.2	514.0	514.0	195.3	60.0	64.4
72.5°	195.3	188.8	175.7	215.0	292.5	296.8	229.2	199.7	57.8	39.3	36.0
75°	94.9	93.9	80.8	66.6	63.3	52.4	40.4	37.1	26.2	25.1	21.8
77.5°	19.6	18.6	9.8	9.8	10.9	12.0	15.3	15.3	18.6	18.6	15.3
80°	0.0	0.0	1.1	4.4	7.6	10.9	13.1	13.1	15.3	15.3	12.0
82.5°	0.0	0.0	1.1	3.3	6.5	9.8	12.0	13.1	15.3	16.4	13.1
85°	0.0	0.0	0.0	2.2	5.5	7.6	6.5	6.5	5.5	4.4	2.2
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°	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4
2.5°	2547.2	2545.0	2494.8	2466.4	2415.1	2370.4	2334.4	2308.2	2308.2	2291.8	2276.5
5°	2475.1	2456.6	2349.6	2280.9	2183.8	2111.7	2062.6	2024.4	1964.4	1980.8	1916.4
7.5°	2385.7	2338.7	2196.9	2092.1	1957.9	1855.3	1750.5	1657.7	1568.2	1527.9	1549.7
10°	2289.6	2207.8	2016.8	1850.9	1683.9	1496.2	1374.0	1225.6	1133.9	1128.4	1104.4
12.5°	2188.1	2095.4	1862.9	1633.7	1414.4	1188.5	1001.8	863.2	801.0	732.3	745.4
15°	2111.7	1974.2	1691.6	1415.5	1124.1	896.0	708.3	601.3	542.4	526.0	520.6
17.5°	2028.8	1881.5	1517.0	1183.0	881.8	645.0	509.7	458.4	435.4	435.4	432.2
20°	1942.6	1776.7	1343.4	966.9	661.3	481.3	408.2	391.8	390.7	389.6	389.6
22.5°	1885.8	1656.6	1186.3	768.3	498.7	385.2	354.7	348.1	352.5	365.6	365.6
25°	1825.8	1541.0	1012.8	592.6	386.3	330.7	313.2	317.6	328.5	340.5	336.1
27.5°	1764.7	1465.7	849.1	464.9	316.5	289.2	282.7	292.5	304.5	315.4	312.1
30°	1750.5	1384.9	694.1	352.5	271.7	252.1	256.5	265.2	277.2	281.6	285.9
32.5°	1772.3	1321.6	568.6	289.2	236.8	231.4	231.4	235.7	243.4	253.2	249.9
35°	1834.5	1285.6	449.6	251.0	217.2	211.7	210.6	215.0	219.4	222.6	219.4
37.5°	1929.5	1257.2	367.8	222.6	204.1	195.3	193.2	192.1	196.4	197.5	199.7
40°	2050.6	1272.5	312.1	205.2	191.0	181.2	174.6	174.6	174.6	177.9	179.0
42.5°	2181.6	1293.2	269.6	195.3	179.0	167.0	160.4	158.2	160.4	164.8	163.7
45°	2319.1	1333.6	242.3	180.1	168.1	152.8	144.1	141.9	147.3	156.1	155.0
47.5°	2447.9	1391.5	221.5	170.2	157.2	143.0	132.1	129.9	139.7	151.7	152.8
50°	2576.6	1491.9	213.9	162.6	149.5	133.1	123.3	121.1	132.1	147.3	150.6
52.5°	2725.1	1599.9	208.4	152.8	140.8	125.5	114.6	112.4	124.4	144.1	145.1
55°	2822.2	1691.6	204.1	135.3	124.4	113.5	104.8	103.7	116.8	134.2	138.6
57.5°	2708.7	1563.9	188.8	117.9	105.9	100.4	92.8	92.8	103.7	120.0	123.3
60°	2053.9	1029.1	134.2	94.9	89.5	86.2	82.9	82.9	91.7	103.7	104.8
62.5°	1202.7	554.4	86.2	76.4	76.4	73.1	67.7	67.7	76.4	82.9	84.0
65°	356.9	177.9	69.8	65.5	64.4	58.9	53.5	52.4	58.9	62.2	61.1
67.5°	102.6	81.9	57.8	54.6	53.5	44.7	41.5	40.4	41.5	39.3	38.2
70°	61.1	55.7	44.7	45.8	40.4	32.7	29.5	28.4	26.2	22.9	20.7
72.5°	33.8	33.8	32.7	34.9	28.4	21.8	18.6	15.3	12.0	9.8	8.7
75°	20.7	21.8	22.9	24.0	18.6	14.2	12.0	7.6	4.4	2.2	2.2
77.5°	14.2	15.3	16.4	17.5	15.3	13.1	9.8	5.5	1.1	0.0	0.0
80°	10.9	12.0	14.2	15.3	16.4	17.5	13.1	5.5	1.1	0.0	0.0
82.5°	12.0	13.1	16.4	15.3	15.3	15.3	12.0	5.5	1.1	0.0	0.0
85°	2.2	3.3	5.5	5.5	7.6	9.8	7.6	2.2	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)