

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: P527374

Luminaire Tested: **GALN-SA2B-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7130 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

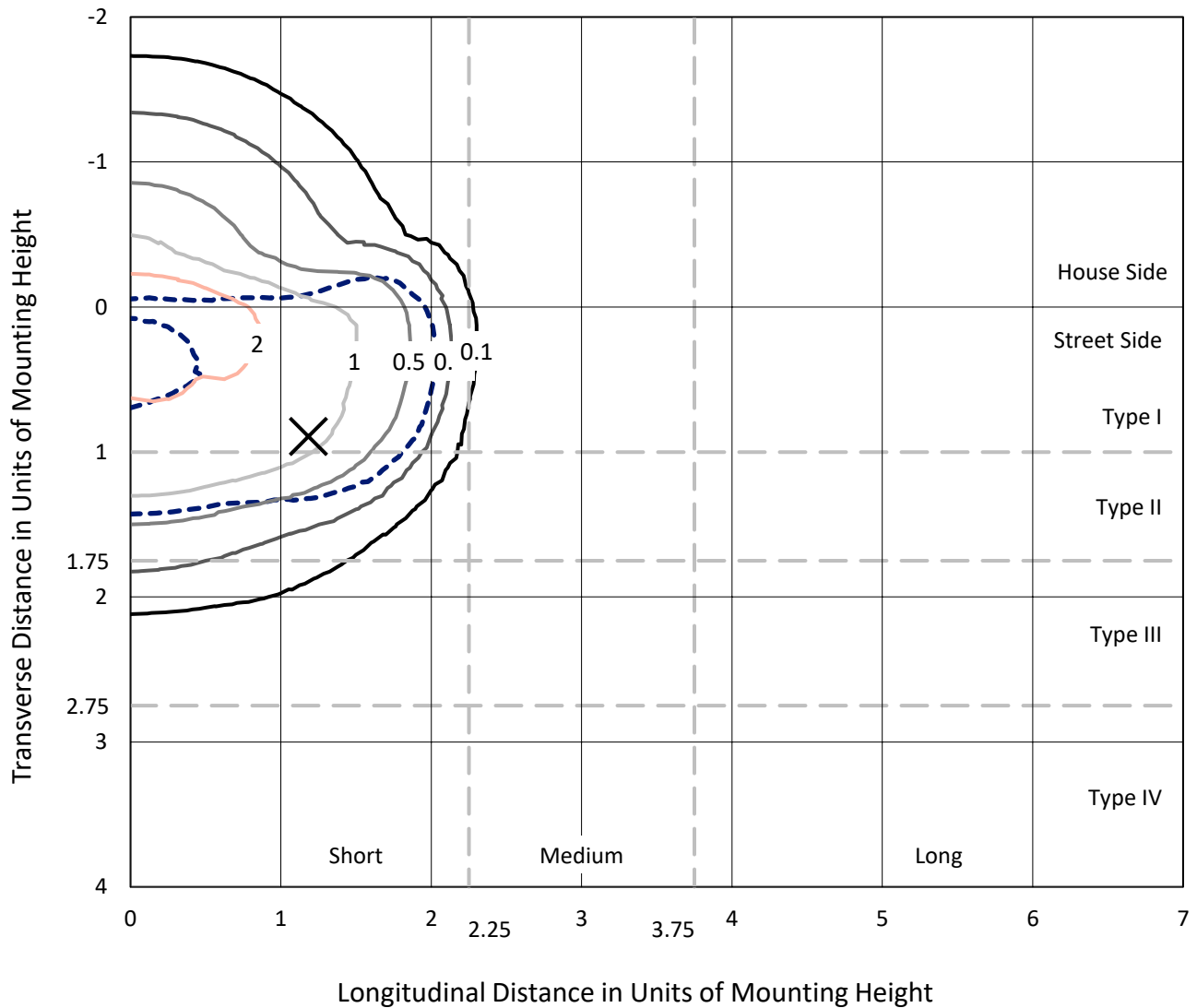
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

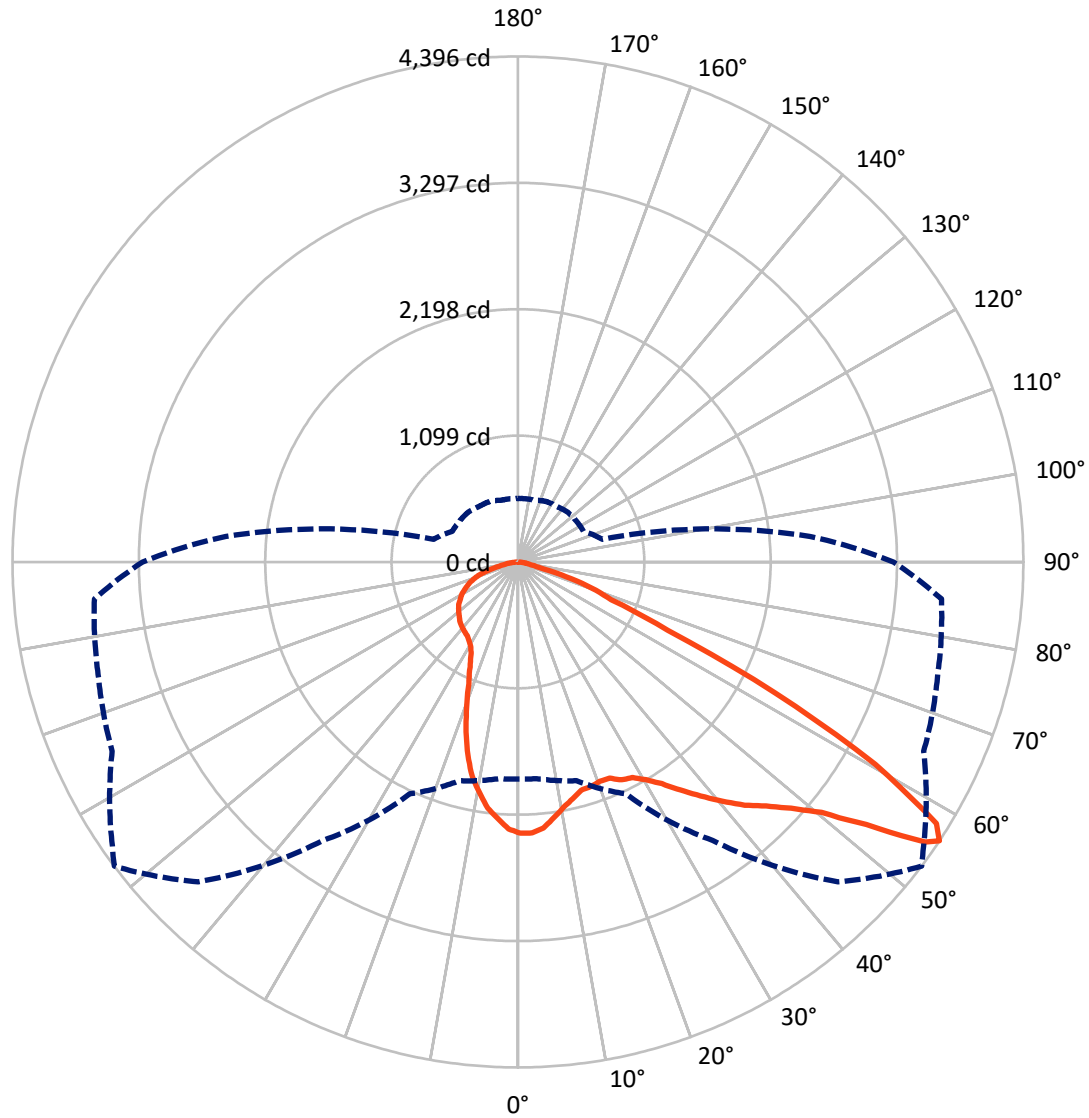
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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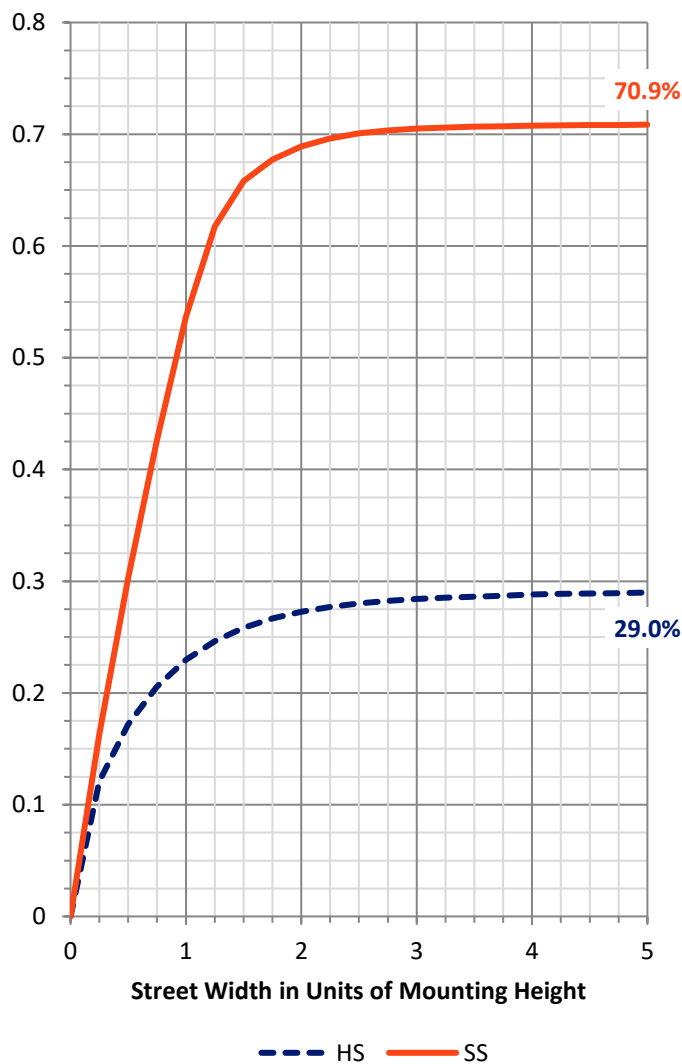
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2080.7	0.0	2080.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	5049.3	0.0	5049.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	7130.0	0.0	7130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	2.9
10°-20°	521.6	7.3
20°-30°	769.1	10.8
30°-40°	1098.9	15.4
40°-50°	1512.5	21.2
50°-60°	1787.3	25.1
60°-70°	952.5	13.4
70°-80°	241.6	3.4
80°-90°	37.7	0.5
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°	7130.0	100.0
0°-180°	7130.0	100.0

Coefficient of Utilization

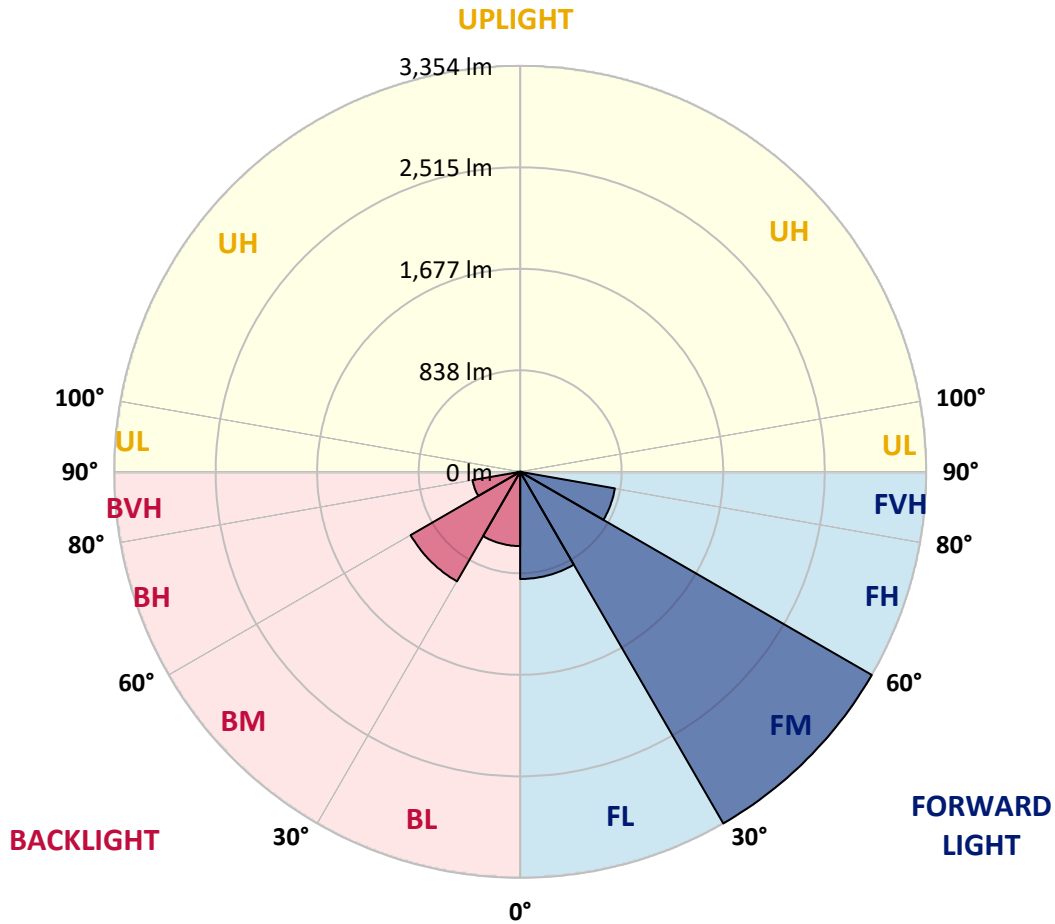


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.8	12.4			
FM (30°-60°)	3353.8	47.0			
FH (60°-80°)	794.6	11.1			G1/1800
FVH (80°-90°)	15.1	0.2			G1/100
BL (0°-30°)	613.7	8.6	B2/1000		
BM (30°-60°)	1044.9	14.7	B2/2500		
BH (60°-80°)	399.6	5.6	B1/500		G1/500
BVH (80°-90°)	22.5	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9
2.5°	2329.6	2309.5	2321.4	2316.8	2354.3	2365.3	2359.8	2364.4	2385.4	2375.3	2354.3
5°	2176.9	2205.2	2210.7	2224.4	2246.4	2289.4	2323.2	2332.4	2342.4	2389.1	2384.5
7.5°	2037.8	2057.1	2047.0	2087.2	2134.8	2204.3	2245.5	2252.8	2345.2	2370.8	2390.0
10°	1950.0	1930.8	1976.6	1987.5	2041.5	2121.1	2170.5	2200.7	2284.8	2386.3	2398.2
12.5°	1868.6	1862.2	1889.7	1920.8	1981.1	2063.5	2113.8	2125.6	2255.5	2362.5	2418.3
15°	1808.3	1800.9	1828.4	1851.3	1921.7	1994.9	2058.9	2092.7	2223.5	2348.8	2401.0
17.5°	1760.7	1759.8	1775.3	1816.5	1888.8	1950.0	2053.4	2055.2	2207.1	2369.9	2415.6
20°	1758.0	1757.0	1759.8	1805.5	1871.4	1946.4	2036.0	2052.5	2207.1	2355.2	2416.5
22.5°	1780.8	1766.2	1782.7	1811.9	1859.5	1952.8	2042.4	2079.0	2260.1	2427.5	2457.7
25°	1817.4	1821.1	1830.2	1840.3	1867.7	1967.4	2099.1	2129.3	2322.3	2489.7	2514.4
27.5°	1884.2	1882.4	1886.0	1891.5	1915.3	1981.1	2122.0	2199.7	2452.2	2600.4	2575.7
30°	1982.0	1975.6	1990.3	2009.5	1987.5	2025.0	2197.9	2256.4	2572.9	2711.9	2644.3
32.5°	2070.8	2094.6	2122.0	2130.2	2103.7	2111.0	2298.5	2358.0	2673.5	2849.1	2728.4
35°	2181.4	2200.7	2237.2	2262.8	2258.3	2236.3	2435.7	2514.4	2819.0	2949.7	2817.1
37.5°	2289.4	2312.2	2372.6	2448.5	2406.4	2396.4	2582.1	2647.0	2863.8	3003.7	2882.1
40°	2463.2	2462.2	2566.5	2605.8	2643.3	2626.0	2733.9	2755.8	2887.6	2991.8	2883.9
42.5°	2667.1	2654.3	2760.4	2821.7	2870.2	2872.0	2892.1	2884.8	2898.5	2931.5	2864.7
45°	2861.0	2888.5	2995.5	3105.2	3153.7	3159.2	3025.7	3011.9	2917.7	2914.1	2828.1
47.5°	3097.9	3104.3	3192.1	3336.6	3449.1	3410.7	3198.5	3168.4	3001.9	3030.2	2889.4
50°	3111.6	3159.2	3237.9	3408.0	3753.7	3743.7	3422.6	3365.9	3137.3	3194.9	3060.4
52.5°	2824.4	2813.5	2906.8	3184.8	3730.9	4074.8	3794.0	3658.6	3428.1	3384.2	3337.6
55°	2152.2	2177.8	2260.1	2540.9	3239.7	4079.3	4299.8	4189.1	3739.1	3664.1	3610.1
56°	1887.8	1891.5	1969.2	2225.3	2956.2	3933.9	4395.8	4306.2	3893.7	3779.3	3697.0
57.5°	1565.0	1543.9	1584.2	1724.1	2495.2	3626.6	4290.6	4378.4	4074.8	3903.7	3789.4
60°	1232.0	1227.5	1211.0	1236.6	1576.9	2732.1	3571.7	3769.3	4056.5	3786.7	3629.3
62.5°	1006.1	983.2	1016.2	1052.8	1095.8	1694.8	2509.8	2626.0	3220.5	3022.9	2726.6
65°	780.2	769.2	810.4	929.3	954.9	1076.5	1429.6	1519.2	1901.6	1867.7	1644.5
67.5°	536.9	538.7	574.4	755.5	885.4	874.4	875.3	922.0	992.4	737.2	642.1
70°	340.3	339.3	358.5	486.6	712.5	719.8	683.2	669.5	634.8	384.2	407.0
72.5°	218.6	212.2	222.3	268.9	368.6	426.2	439.0	447.3	367.7	301.8	327.4
75°	123.5	117.1	113.4	125.3	145.4	168.3	184.8	190.2	213.1	228.7	242.4
77.5°	37.5	33.8	41.2	54.9	72.3	97.0	118.0	121.6	143.6	161.9	175.6
80°	16.5	18.3	25.6	36.6	51.2	68.6	83.2	88.7	103.4	117.1	120.7
82.5°	10.1	11.0	17.4	24.7	35.7	48.5	59.5	61.3	75.9	86.9	89.6
85°	3.7	4.6	9.1	14.6	22.9	31.1	31.1	33.8	31.1	31.1	33.8
87.5°	0.0	0.0	0.9	1.8	1.8	2.7	3.7	3.7	4.6	5.5	6.4
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°	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9
2.5°	2365.3	2360.7	2353.4	2326.9	2324.1	2315.9	2270.2	2262.8	2270.2	2248.2	2250.0
5°	2360.7	2374.4	2319.6	2293.0	2243.6	2208.0	2166.8	2145.8	2108.3	2084.5	2111.0
7.5°	2380.8	2375.3	2306.7	2249.1	2175.0	2084.5	2012.2	1971.1	1905.2	1886.9	1900.6
10°	2373.5	2344.3	2263.8	2187.8	2047.9	1968.3	1851.3	1737.8	1675.6	1643.6	1639.1
12.5°	2363.5	2355.2	2220.8	2090.0	1942.7	1775.3	1610.7	1503.7	1402.2	1358.3	1364.7
15°	2375.3	2305.8	2140.3	1974.7	1779.0	1559.5	1382.0	1243.9	1173.5	1145.1	1145.1
17.5°	2369.9	2282.1	2101.9	1845.8	1597.9	1338.1	1143.3	1060.1	1030.8	1030.8	1039.0
20°	2372.6	2297.6	2024.1	1716.8	1383.9	1126.9	985.1	954.9	967.7	972.3	976.8
22.5°	2388.2	2246.4	1948.2	1575.0	1185.4	964.0	894.5	895.4	918.3	943.0	938.4
25°	2407.4	2226.3	1855.8	1434.2	1033.6	884.5	862.5	859.8	877.2	890.0	891.8
27.5°	2390.9	2191.5	1761.6	1258.6	909.2	831.4	826.8	828.7	834.2	859.8	851.5
30°	2444.9	2201.6	1643.6	1111.3	840.6	814.0	808.6	805.8	814.0	821.4	815.0
32.5°	2511.6	2165.9	1555.8	969.5	806.7	801.2	790.3	786.6	791.2	783.9	787.5
35°	2540.9	2159.5	1441.5	868.0	780.2	775.6	769.2	768.3	769.2	762.8	757.3
37.5°	2557.4	2189.7	1310.7	821.4	763.7	768.3	753.7	751.8	735.4	739.0	741.8
40°	2585.7	2143.0	1204.6	776.5	753.7	744.5	731.7	729.0	718.0	711.6	718.0
42.5°	2544.6	2129.3	1100.3	757.3	739.0	729.0	719.8	704.3	700.6	695.1	691.5
45°	2511.6	2050.6	1007.0	733.6	721.7	716.2	698.8	682.3	668.6	674.1	665.9
47.5°	2536.3	2023.2	914.7	713.4	697.9	691.5	674.1	661.3	647.6	641.2	639.3
50°	2635.1	2074.4	836.9	698.8	677.8	674.1	651.2	636.6	623.8	619.2	621.0
52.5°	2871.1	2214.4	783.9	668.6	658.5	642.1	629.3	611.0	602.8	588.1	597.3
55°	3170.2	2442.1	770.1	640.3	634.8	620.1	602.8	589.0	573.5	561.6	558.9
56°	3266.2	2551.0	759.2	629.3	620.1	611.9	589.0	580.8	556.1	553.4	551.5
57.5°	3344.0	2647.0	761.0	608.2	599.1	591.8	578.1	557.9	541.5	531.4	536.0
60°	3168.4	2477.8	726.2	576.2	574.4	560.7	541.5	532.3	512.2	500.3	497.6
62.5°	2355.2	1682.0	589.0	535.1	534.2	519.5	497.6	487.5	483.9	467.4	467.4
65°	1356.4	1054.6	509.5	501.2	493.9	479.3	457.3	449.1	439.9	434.5	429.9
67.5°	579.0	547.0	462.8	461.9	453.7	435.4	413.4	400.6	388.7	377.8	383.2
70°	419.8	426.2	418.0	413.4	403.4	380.5	361.3	345.7	327.4	320.1	325.6
72.5°	332.9	346.7	358.5	359.5	347.6	321.0	300.0	279.0	258.8	248.8	253.4
75°	252.4	261.6	273.5	276.2	258.8	240.6	220.4	198.5	182.9	171.0	172.9
77.5°	182.0	180.2	191.2	189.3	181.1	168.3	150.0	129.9	112.5	101.5	102.4
80°	124.4	127.1	133.5	132.6	122.6	114.3	100.6	84.1	71.3	62.2	60.4
82.5°	86.9	91.5	97.0	92.4	84.1	75.9	65.9	54.0	43.9	36.6	34.8
85°	31.1	35.7	41.2	43.9	46.6	44.8	37.5	30.2	22.0	18.3	17.4
87.5°	6.4	7.3	8.2	8.2	8.2	7.3	6.4	6.4	5.5	2.7	2.7
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)