

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: P527856

Luminaire Tested: **GALN-SA2D-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9983 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

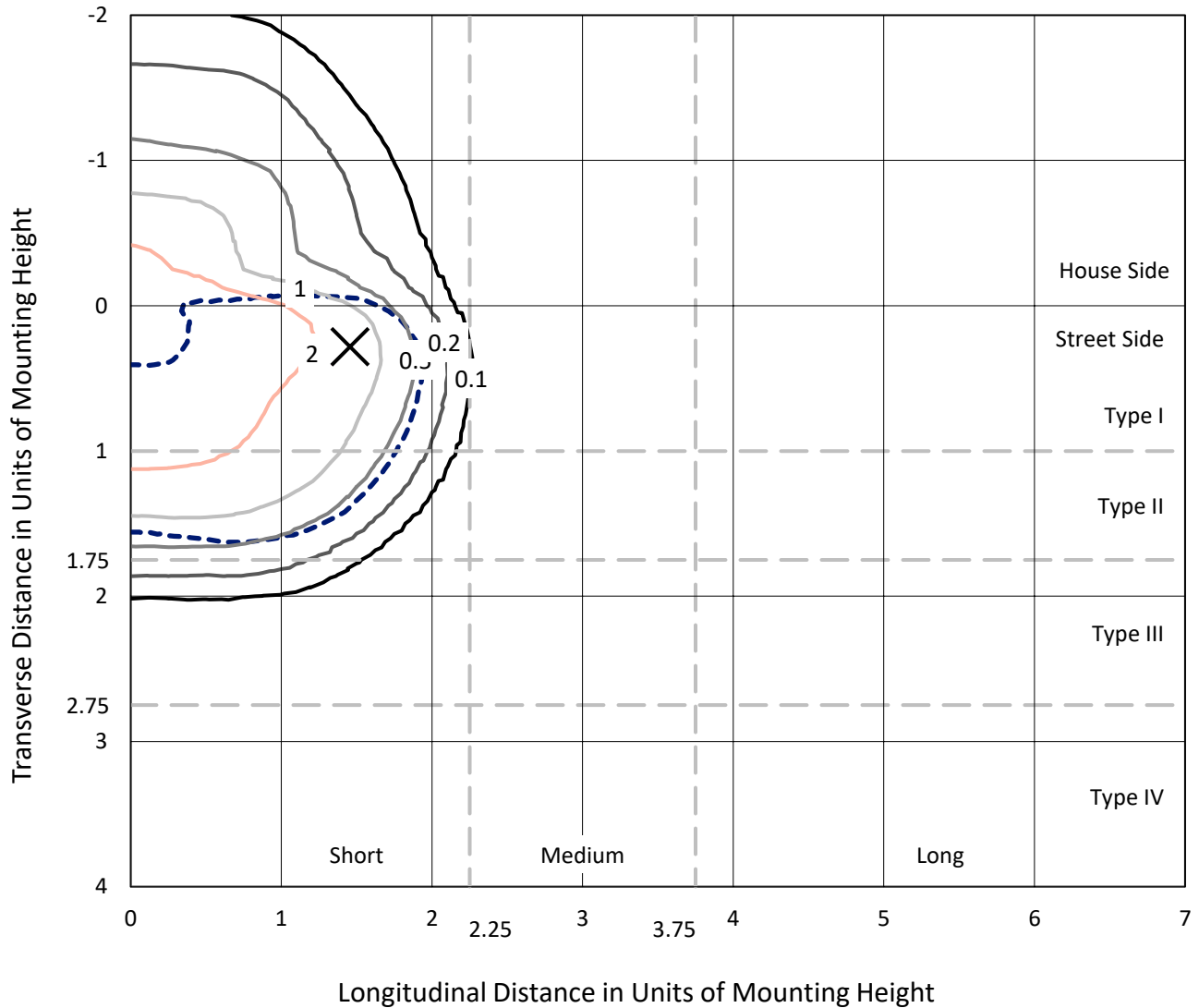
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

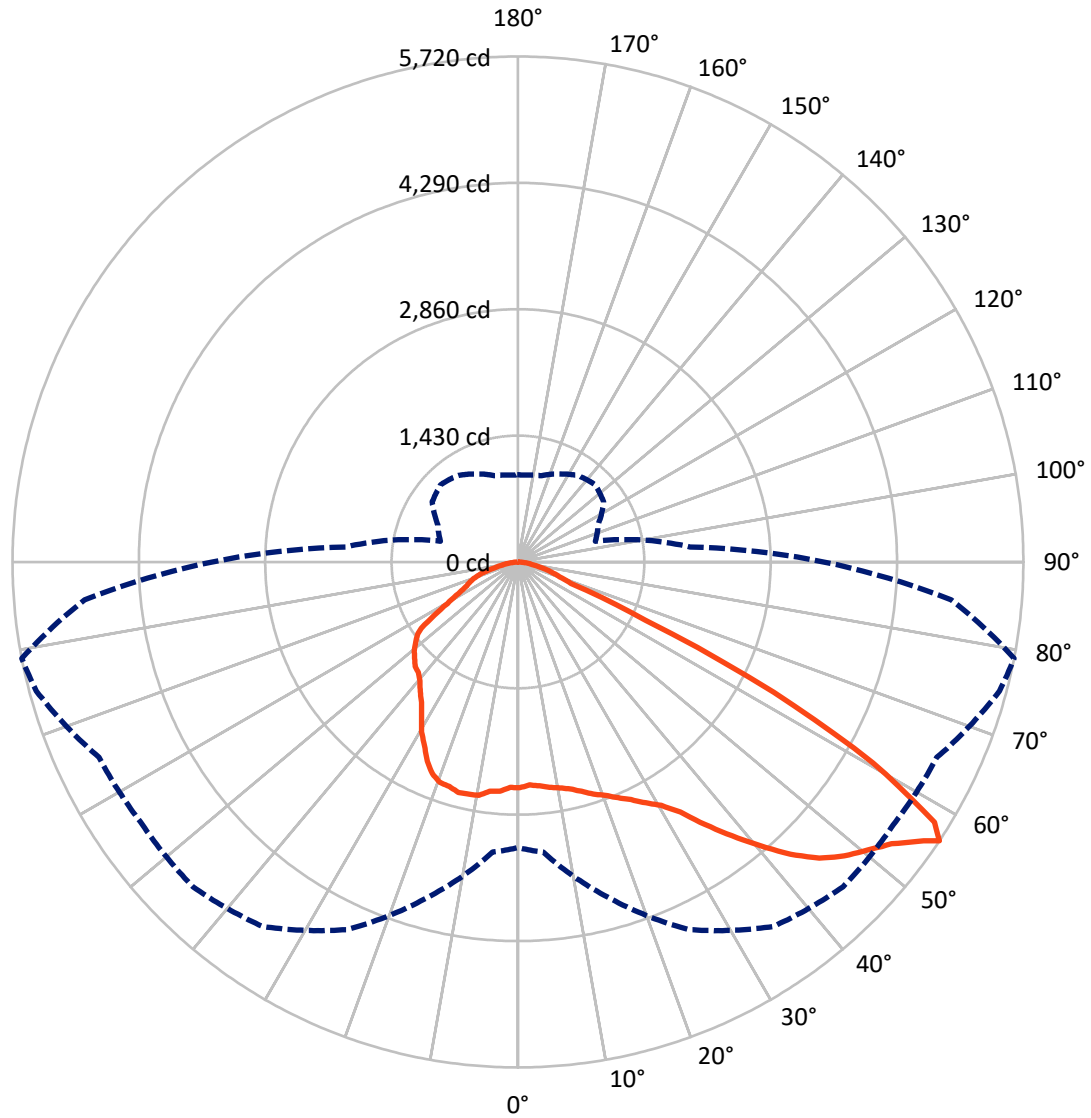
✕ Max cd
 - - - 1/2 Max cd



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 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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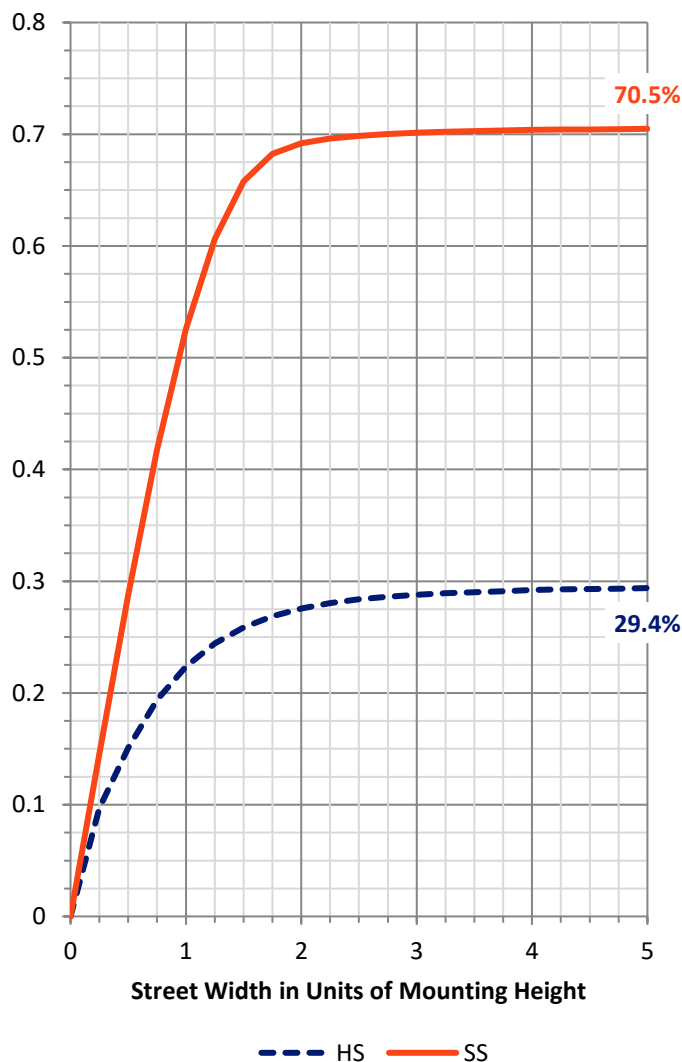
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2948.2	0.0	2948.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	7034.8	0.0	7034.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	9983.0	0.0	9983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	2.3
10°-20°	635.6	6.4
20°-30°	1087.3	10.9
30°-40°	1666.4	16.7
40°-50°	2252.2	22.6
50°-60°	2586.7	25.9
60°-70°	1179.1	11.8
70°-80°	290.7	2.9
80°-90°	52.8	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°	9983.0	100.0
0°-180°	9983.0	100.0

Coefficient of Utilization



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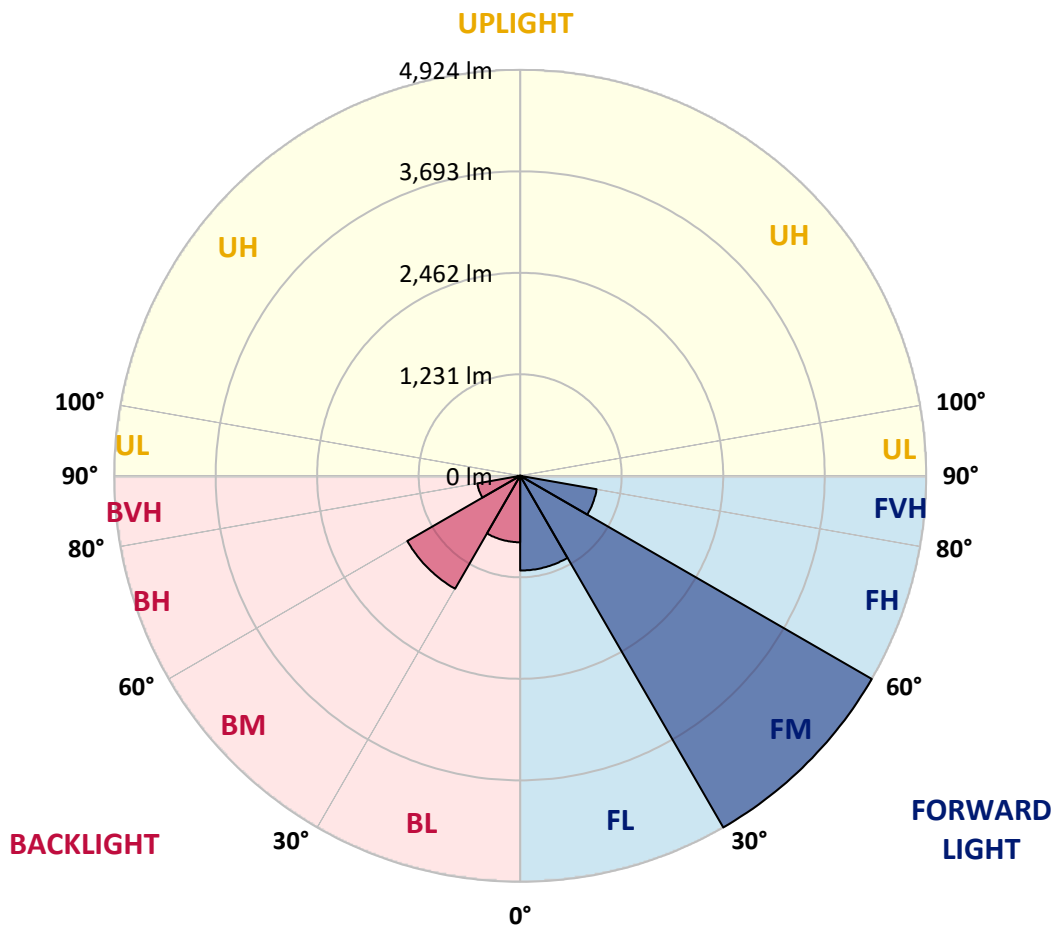
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.6	11.5			
FM (30°-60°)	4923.9	49.3			
FH (60°-80°)	941.2	9.4			G1/1800
FVH (80°-90°)	21.1	0.2			G1/100
BL (0°-30°)	806.5	8.1	B2/1000		
BM (30°-60°)	1581.4	15.8	B2/2500		
BH (60°-80°)	528.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	31.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3
2.5°	2429.9	2423.7	2438.6	2449.8	2463.5	2480.9	2489.6	2494.6	2538.1	2526.9	2560.5
5°	2377.7	2361.5	2372.7	2381.4	2405.0	2426.2	2449.8	2487.1	2526.9	2544.3	2585.3
7.5°	2331.7	2323.0	2320.5	2326.7	2359.0	2386.4	2427.4	2482.1	2546.8	2575.4	2599.0
10°	2255.8	2243.4	2262.0	2303.1	2311.8	2369.0	2416.2	2494.6	2550.5	2600.3	2669.9
12.5°	2222.2	2209.8	2213.5	2237.1	2298.1	2352.8	2408.8	2497.1	2615.2	2635.1	2728.4
15°	2275.7	2263.3	2267.0	2260.8	2319.2	2347.8	2436.1	2546.8	2660.0	2693.5	2793.0
17.5°	2397.6	2398.8	2382.6	2369.0	2355.3	2416.2	2477.2	2576.6	2677.4	2761.9	2836.5
20°	2630.1	2589.1	2556.7	2479.6	2458.5	2484.6	2561.7	2657.5	2748.2	2817.9	2902.4
22.5°	2809.2	2812.9	2766.9	2640.1	2594.0	2605.2	2671.1	2749.5	2849.0	2898.7	2995.7
25°	3069.1	3043.0	2993.2	2892.5	2789.3	2798.0	2846.5	2917.4	2944.7	2979.5	3085.3
27.5°	3306.6	3314.1	3215.8	3121.3	2993.2	2968.4	3055.4	3067.8	3021.8	3087.7	3123.8
30°	3547.9	3541.6	3477.0	3366.3	3240.7	3245.7	3284.2	3223.3	3159.9	3195.9	3220.8
32.5°	3797.8	3726.9	3724.4	3625.0	3529.2	3483.2	3435.9	3465.8	3367.5	3375.0	3351.4
35°	3998.0	4008.0	3950.8	3879.9	3832.6	3751.8	3622.5	3675.9	3657.3	3648.6	3546.6
37.5°	4143.5	4105.0	4133.6	4109.9	4065.2	3964.4	3830.1	3881.1	3889.8	3932.1	3814.0
40°	4262.9	4246.7	4322.6	4335.0	4303.9	4086.3	3845.1	3996.8	4127.3	4219.4	4078.8
42.5°	4320.1	4354.9	4434.5	4530.3	4460.6	4228.1	3922.2	4085.1	4376.1	4521.6	4330.0
45°	4397.2	4352.4	4470.6	4645.9	4647.2	4347.5	3996.8	4204.4	4570.1	4781.5	4501.7
47.5°	4318.9	4341.2	4463.1	4685.7	4742.9	4473.1	4198.2	4373.6	4783.9	4971.7	4660.8
50°	4143.5	4188.3	4410.9	4642.2	4815.0	4606.1	4429.5	4556.4	4981.7	5124.7	4686.9
52.5°	3960.7	3985.6	4333.8	4675.8	4847.4	4777.7	4739.2	4808.8	5222.9	5297.5	4719.3
55°	3463.3	3581.4	4078.8	4660.8	5005.3	5087.4	5057.5	5159.5	5496.5	5571.1	4895.9
56°	3233.2	3295.4	3925.9	4591.2	5036.4	5200.5	5185.6	5231.6	5642.0	5720.3	4923.2
57.5°	2807.9	2812.9	3347.6	4282.8	4919.5	5234.1	5219.2	5255.2	5613.4	5559.9	4683.2
60°	1757.1	1834.2	2278.2	3294.2	4183.3	4856.1	4940.6	4650.9	4733.0	4619.8	3643.6
62.5°	910.3	899.1	1193.8	1926.3	2776.9	3477.0	3555.3	3541.6	3414.8	3249.4	2380.2
65°	453.9	456.4	624.3	953.8	1422.6	1820.6	2039.4	2063.1	1726.0	1588.0	1129.1
67.5°	329.5	342.0	448.9	583.2	670.3	749.9	919.0	901.6	682.7	649.1	601.9
70°	256.2	267.4	364.4	445.2	404.2	404.2	440.2	455.1	486.2	499.9	516.1
72.5°	186.5	195.2	278.6	307.2	264.9	284.8	329.5	364.4	396.7	401.7	420.3
75°	128.1	135.5	182.8	169.1	159.2	196.5	241.2	273.6	297.2	309.6	320.8
77.5°	83.3	85.8	104.5	88.3	102.0	126.8	156.7	184.0	207.7	217.6	220.1
80°	37.3	41.0	44.8	56.0	70.9	90.8	111.9	134.3	149.2	153.0	160.4
82.5°	21.1	21.1	27.4	39.8	52.2	65.9	80.8	97.0	114.4	118.1	116.9
85°	11.2	11.2	16.2	23.6	32.3	38.6	37.3	38.6	41.0	47.3	46.0
87.5°	3.7	3.7	5.0	5.0	6.2	7.5	6.2	8.7	11.2	11.2	11.2
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°	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3	2554.3
2.5°	2550.5	2561.7	2546.8	2579.1	2579.1	2572.9	2541.8	2551.8	2559.2	2559.2	2565.4
5°	2599.0	2595.3	2605.2	2566.7	2543.1	2534.4	2483.4	2458.5	2437.4	2436.1	2417.5
7.5°	2626.4	2616.4	2612.7	2584.1	2479.6	2416.2	2306.8	2243.4	2229.7	2181.2	2199.8
10°	2669.9	2688.6	2669.9	2514.5	2369.0	2223.5	2116.5	2018.3	1979.7	1948.6	1930.0
12.5°	2759.4	2750.7	2642.5	2432.4	2228.4	2055.6	1896.4	1793.2	1754.7	1727.3	1724.8
15°	2835.3	2791.8	2626.4	2303.1	2009.6	1825.5	1695.0	1621.6	1604.2	1606.7	1617.9
17.5°	2861.4	2831.6	2541.8	2168.8	1846.7	1630.3	1569.4	1558.2	1574.3	1593.0	1598.0
20°	2902.4	2855.2	2507.0	1986.0	1645.2	1508.4	1504.7	1544.5	1574.3	1601.7	1605.4
22.5°	2988.3	2868.9	2393.8	1813.1	1507.2	1472.4	1508.4	1542.0	1588.0	1610.4	1590.5
25°	3013.1	2839.0	2234.7	1605.4	1420.1	1450.0	1488.5	1534.5	1566.9	1579.3	1588.0
27.5°	3034.3	2793.0	2019.5	1467.4	1392.8	1448.7	1488.5	1527.1	1544.5	1555.7	1565.6
30°	3094.0	2779.3	1833.0	1375.4	1375.4	1423.9	1474.9	1484.8	1508.4	1522.1	1539.5
32.5°	3123.8	2684.8	1641.5	1316.9	1358.0	1436.3	1440.0	1458.7	1459.9	1471.1	1452.5
35°	3202.1	2617.7	1463.7	1274.6	1365.4	1423.9	1442.5	1431.3	1370.4	1340.5	1346.8
37.5°	3259.3	2584.1	1335.6	1269.7	1366.7	1437.5	1447.5	1362.9	1299.5	1249.8	1262.2
40°	3413.5	2500.8	1238.6	1261.0	1377.9	1452.5	1425.1	1333.1	1218.7	1167.7	1159.0
42.5°	3531.7	2441.1	1177.6	1251.0	1386.6	1473.6	1413.9	1273.4	1156.5	1109.2	1121.7
45°	3668.5	2427.4	1145.3	1253.5	1401.5	1484.8	1400.2	1227.4	1103.0	1084.4	1080.6
47.5°	3717.0	2329.2	1110.5	1232.4	1397.8	1481.1	1354.2	1192.6	1083.1	1085.6	1095.6
50°	3636.1	2228.4	1084.4	1188.8	1372.9	1447.5	1282.1	1146.6	1071.9	1103.0	1120.4
52.5°	3532.9	2125.2	1030.9	1130.4	1321.9	1395.3	1248.5	1144.1	1060.7	1050.8	1054.5
55°	3564.0	2040.7	956.3	1050.8	1239.8	1298.3	1211.2	1120.4	1033.4	996.1	1008.5
56°	3463.3	1953.6	907.8	1001.1	1183.9	1236.1	1192.6	1099.3	1011.0	986.1	986.1
57.5°	3178.5	1661.4	844.4	921.5	1065.7	1127.9	1156.5	1086.9	986.1	942.6	943.9
60°	2344.1	1181.4	757.3	812.0	882.9	932.7	1065.7	1052.0	924.0	894.1	882.9
62.5°	1445.0	863.0	695.1	716.3	752.3	793.4	930.2	952.6	858.1	825.7	818.3
65°	809.6	660.3	647.9	656.6	674.0	695.1	772.2	822.0	757.3	707.6	705.1
67.5°	591.9	590.7	600.6	608.1	615.6	615.6	634.2	654.1	645.4	605.6	601.9
70°	526.0	529.8	537.2	538.5	540.9	532.2	517.3	511.1	521.0	496.2	491.2
72.5°	434.0	446.4	455.1	456.4	442.7	431.5	411.6	390.5	383.0	378.0	376.8
75°	333.3	342.0	345.7	344.5	339.5	323.3	299.7	278.6	264.9	250.0	257.4
77.5°	225.1	237.5	243.7	243.7	236.3	211.4	200.2	184.0	170.4	154.2	156.7
80°	157.9	166.6	176.6	175.3	162.9	150.5	134.3	119.4	108.2	95.8	94.5
82.5°	118.1	123.1	128.1	125.6	116.9	104.5	93.3	79.6	67.2	58.4	58.4
85°	42.3	46.0	56.0	58.4	63.4	63.4	53.5	44.8	36.1	29.8	29.8
87.5°	12.4	12.4	13.7	13.7	12.4	13.7	11.2	12.4	13.7	8.7	8.7
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)