

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: P946293

Luminaire Tested: **GALN-SB2A-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8475 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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



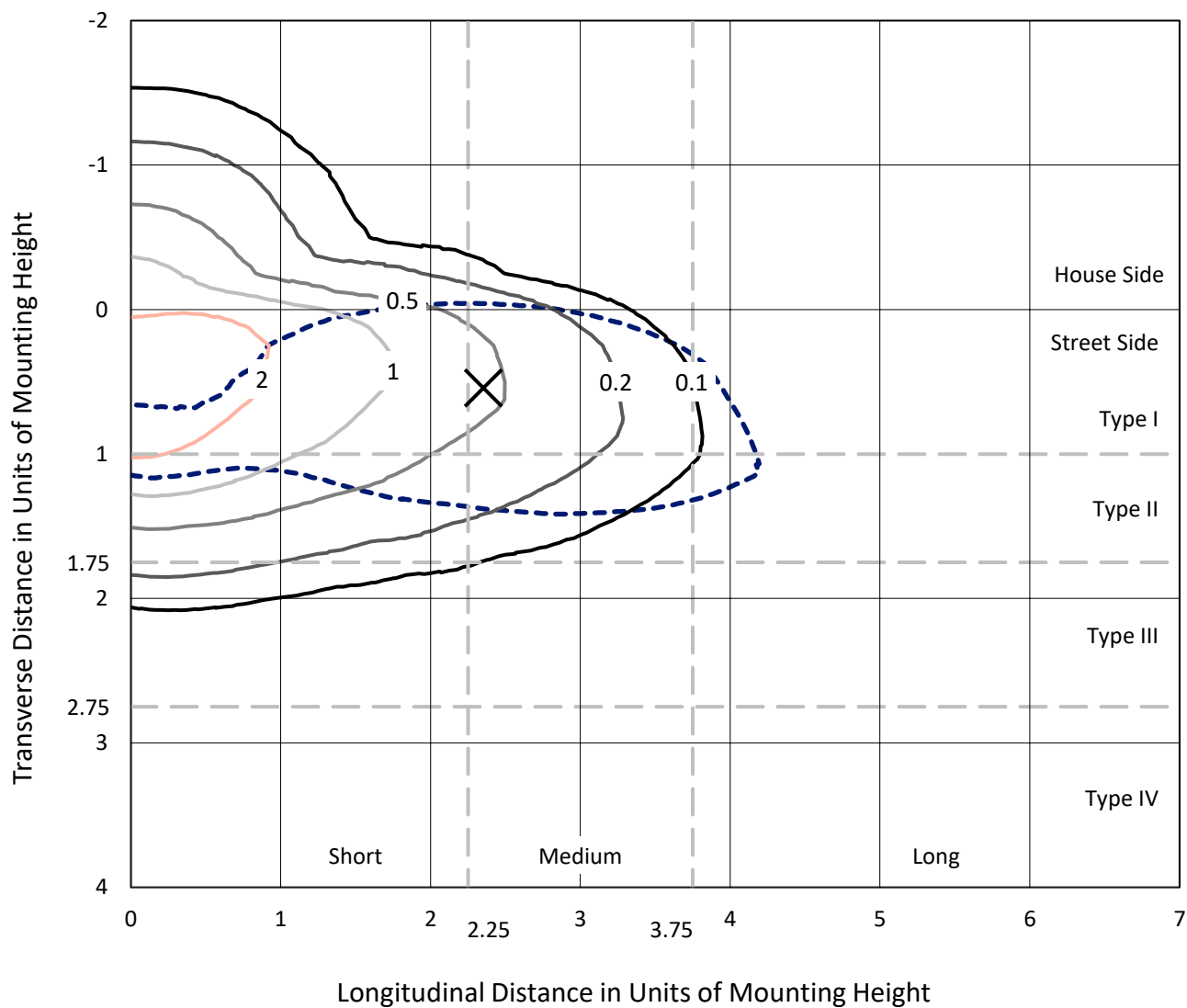
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Iso-Footcandle Lines of Horizontal Illumination

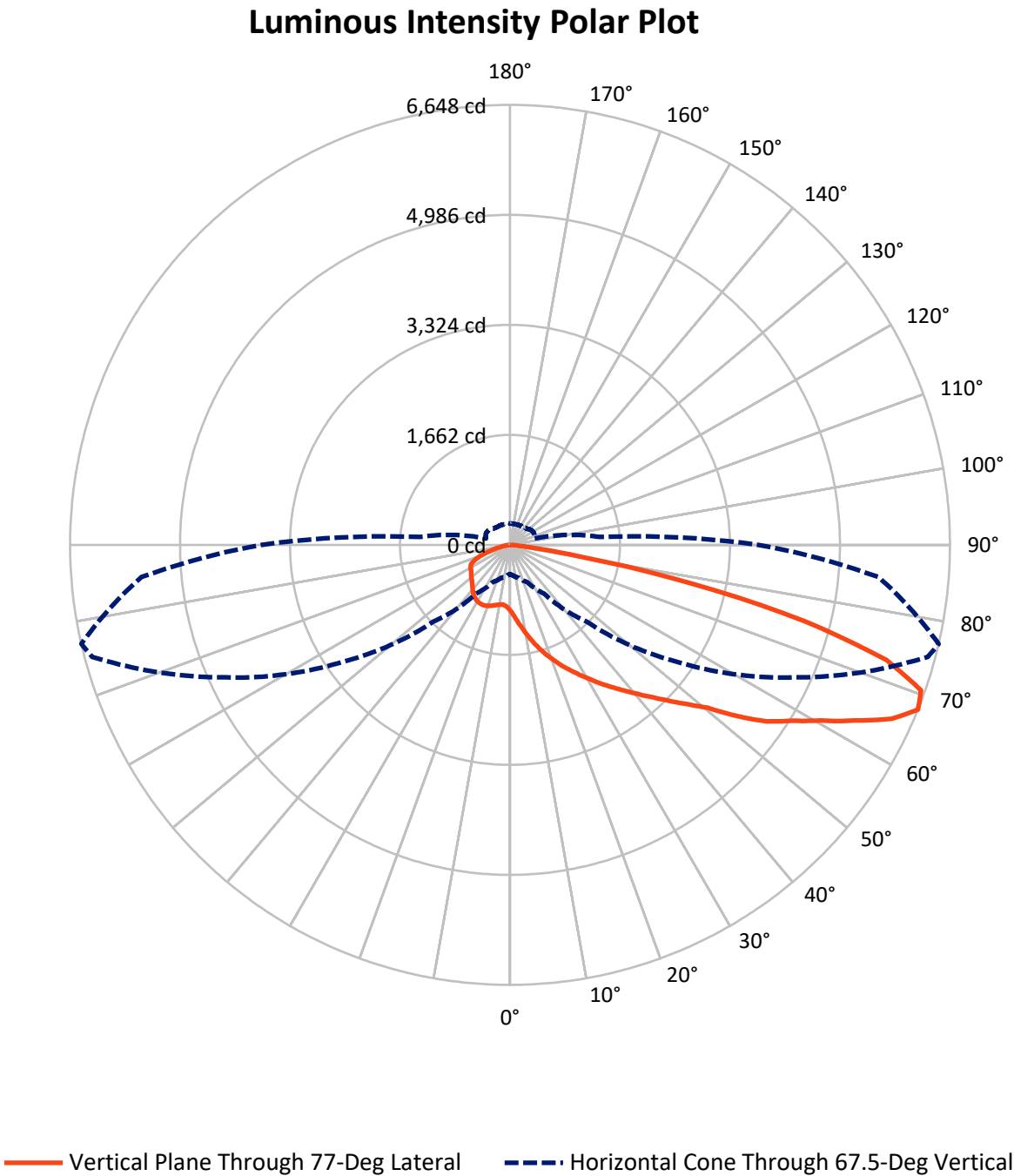
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1603.1	0.0	1603.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	6871.9	0.0	6871.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	8475.0	0.0	8475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	1.3
10°-20°	382.9	4.5
20°-30°	723.0	8.5
30°-40°	1164.7	13.7
40°-50°	1593.1	18.8
50°-60°	1797.0	21.2
60°-70°	1677.3	19.8
70°-80°	919.4	10.8
80°-90°	110.9	1.3
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°	8475.0	100.0
0°-180°	8475.0	100.0

Coefficient of Utilization



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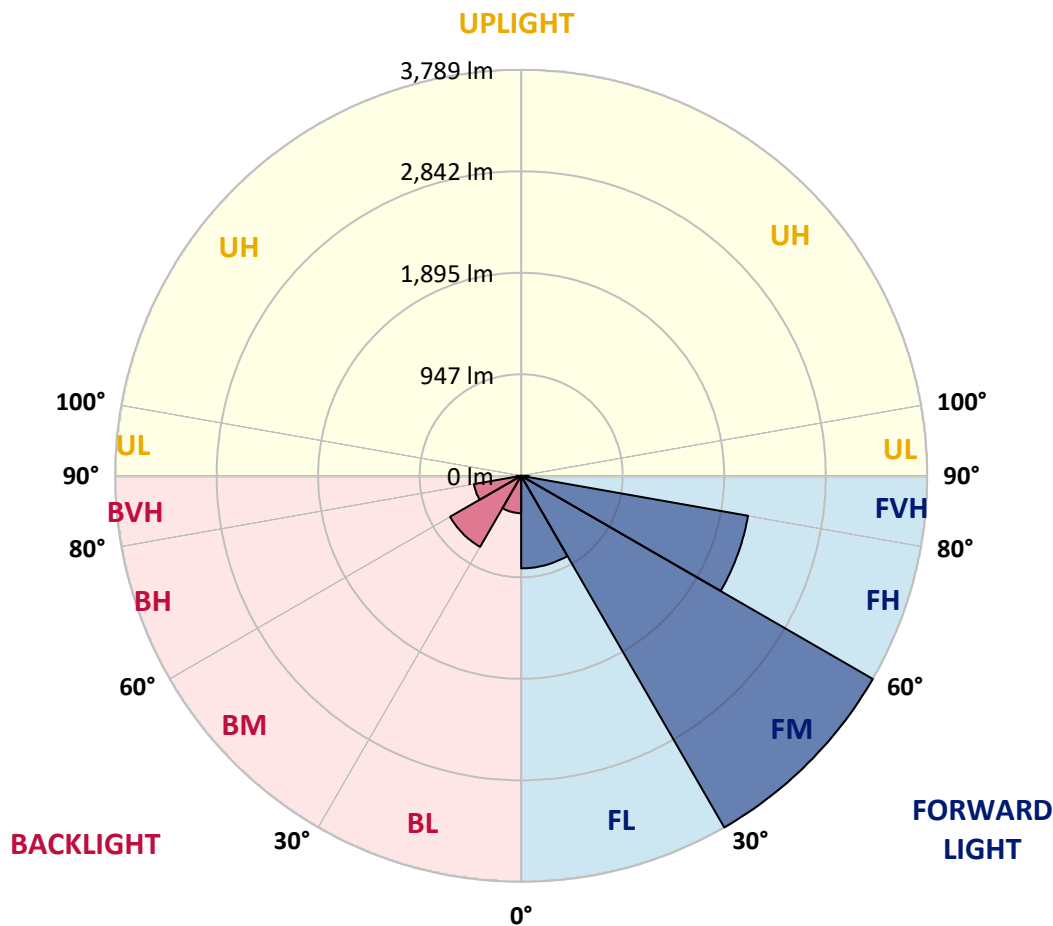
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.9	10.2			
FM	(30°-60°)	3789.1	44.7			
FH	(60°-80°)	2149.5	25.4			G2/5000
FVH	(80°-90°)	69.4	0.8			G1/100
BL	(0°-30°)	348.6	4.1	B1/500		
BM	(30°-60°)	765.8	9.0	B1/1000		
BH	(60°-80°)	447.2	5.3	B1/500		G1/500
BVH	(80°-90°)	41.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4
2.5°	1245.1	1253.8	1242.9	1242.9	1206.1	1186.9	1150.1	1122.1	1071.8	1063.1	1029.8
5°	1471.7	1482.6	1467.3	1460.7	1417.4	1377.6	1315.9	1255.1	1165.4	1156.2	1077.9
7.5°	1647.1	1661.1	1647.5	1640.5	1602.0	1557.4	1485.2	1400.4	1273.9	1256.0	1142.7
10°	1790.1	1792.3	1788.0	1790.6	1760.4	1723.7	1649.7	1550.8	1392.9	1368.4	1221.0
12.5°	1871.1	1881.1	1889.9	1905.6	1900.4	1877.6	1811.1	1693.0	1518.9	1487.4	1306.3
15°	1909.1	1926.6	1946.3	1982.6	2011.9	2017.6	1966.9	1845.7	1647.1	1609.0	1392.5
17.5°	1922.7	1939.3	1970.4	2022.9	2085.9	2128.3	2105.6	1994.0	1774.0	1730.2	1483.0
20°	1991.4	1996.2	2015.0	2064.9	2133.1	2203.6	2220.6	2136.6	1899.5	1850.1	1576.7
22.5°	2138.4	2128.8	2134.0	2156.8	2205.7	2274.0	2312.9	2262.6	2028.6	1971.7	1671.2
25°	2381.2	2353.2	2325.2	2298.9	2323.9	2362.4	2406.6	2388.6	2163.8	2091.6	1766.5
27.5°	2687.8	2653.7	2592.0	2505.9	2475.7	2489.2	2508.9	2505.4	2288.9	2215.8	1865.0
30°	2989.7	2949.9	2876.4	2751.7	2672.1	2636.2	2621.4	2611.3	2424.9	2347.1	1964.3
32.5°	3230.8	3199.3	3127.1	2987.5	2872.0	2810.8	2761.3	2725.5	2567.1	2489.2	2069.3
35°	3441.6	3412.3	3329.6	3177.4	3051.8	2986.6	2921.9	2845.3	2715.0	2636.2	2182.1
37.5°	3634.1	3604.8	3491.5	3333.1	3206.7	3161.6	3103.9	2974.0	2863.3	2788.9	2301.6
40°	3755.7	3749.2	3643.3	3463.9	3332.7	3310.4	3291.1	3123.1	3027.8	2958.6	2432.8
42.5°	3786.8	3801.2	3717.2	3569.8	3444.7	3426.7	3471.8	3292.0	3212.4	3146.3	2581.5
45°	3712.0	3753.5	3698.4	3598.2	3524.3	3514.7	3631.9	3476.6	3416.7	3356.3	2760.9
47.5°	3522.5	3593.0	3570.2	3556.2	3545.7	3587.3	3772.8	3672.6	3648.1	3595.6	2965.6
50°	3140.2	3273.6	3313.4	3401.8	3503.3	3643.7	3901.0	3886.5	3918.5	3865.5	3215.0
52.5°	2479.2	2662.9	2893.9	3115.3	3372.9	3624.9	4041.8	4193.6	4328.4	4299.5	3611.4
55°	2046.5	2129.2	2306.8	2712.8	3120.1	3545.7	4105.3	4441.7	4735.2	4709.4	3911.9
57.5°	1714.0	1788.0	1897.3	2236.4	2737.7	3365.9	4144.6	4593.1	5013.9	5011.3	4208.5
60°	1357.5	1435.8	1547.8	1788.0	2291.1	3055.3	4135.9	4765.4	5369.6	5391.4	4570.3
62.5°	955.0	1041.2	1165.4	1389.4	1834.8	2652.8	3957.4	4890.1	5788.2	5847.7	5005.6
65°	627.8	684.6	778.3	971.6	1367.1	2135.3	3616.6	4906.3	6236.2	6336.8	5414.2
67.5°	440.1	462.0	517.1	622.1	901.2	1637.5	3073.7	4738.7	6535.0	6648.3	5591.4
70°	343.4	354.4	382.4	424.4	566.1	1101.1	2355.4	4303.0	6471.1	6589.2	5406.3
72.5°	296.6	307.1	317.6	322.9	379.7	679.8	1595.5	3597.8	5869.6	5949.7	4700.7
75°	269.0	271.7	280.4	278.7	289.6	441.0	920.9	2621.4	4631.1	4603.5	3470.1
77.5°	226.2	229.7	244.1	241.9	257.2	301.4	478.2	1691.7	3002.4	2815.2	1931.5
80°	191.6	193.4	209.1	206.5	223.5	218.3	244.1	862.3	1273.5	1078.8	556.9
82.5°	66.5	82.2	159.7	164.5	170.6	132.1	140.9	351.7	388.9	297.9	116.8
85°	32.4	34.6	81.4	115.5	115.1	66.5	68.7	125.6	122.5	96.2	38.9
87.5°	5.2	6.6	9.6	45.1	35.9	17.5	23.6	24.5	25.4	21.9	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4	994.4
2.5°	1005.3	983.4	937.5	895.1	861.8	829.9	812.0	796.6	787.9	786.1	786.1
5°	1032.4	987.4	903.8	833.4	787.5	753.3	735.4	724.0	718.3	714.8	714.4
7.5°	1071.4	1005.3	886.3	806.3	758.1	733.6	724.5	722.7	722.3	722.7	724.0
10°	1125.2	1034.6	884.6	799.7	759.5	745.9	745.5	745.9	747.6	748.1	748.5
12.5°	1183.4	1064.8	891.6	805.4	776.1	768.6	767.3	766.9	768.2	769.1	769.5
15°	1246.8	1104.6	903.4	817.6	794.5	786.6	785.3	782.6	782.2	781.8	781.3
17.5°	1312.0	1144.0	916.5	830.8	806.3	795.3	790.5	784.4	779.6	778.3	779.6
20°	1378.0	1182.9	925.7	837.3	807.1	791.8	782.2	771.7	763.4	758.6	760.3
22.5°	1448.5	1223.6	931.4	835.6	799.3	778.3	760.8	748.5	735.8	727.5	728.0
25°	1517.2	1259.1	930.9	826.4	784.0	757.3	735.0	719.2	701.7	693.0	693.0
27.5°	1583.2	1291.0	920.0	810.2	762.1	732.3	705.6	686.8	669.8	661.5	661.0
30°	1651.5	1317.7	902.9	786.6	736.3	703.5	674.1	658.0	642.7	634.8	634.3
32.5°	1719.3	1342.2	878.9	757.3	706.5	675.0	646.2	631.3	622.1	622.1	622.5
35°	1791.0	1359.2	847.0	723.1	675.0	644.8	622.1	613.3	612.5	607.2	605.9
37.5°	1866.7	1370.2	808.0	688.1	644.0	615.5	608.5	598.0	589.3	577.9	576.2
40°	1946.3	1381.1	761.2	651.8	611.2	595.4	592.3	578.3	553.4	525.4	521.5
42.5°	2043.0	1388.5	712.6	615.5	576.6	571.3	575.7	551.7	511.8	490.8	491.3
45°	2155.0	1400.8	668.0	579.7	541.2	541.2	559.5	528.0	495.2	482.1	484.3
47.5°	2300.2	1429.2	626.5	540.3	508.3	517.1	523.7	499.6	481.2	465.0	464.6
50°	2510.2	1497.5	583.6	500.5	483.4	500.9	491.7	477.7	456.3	443.2	441.8
52.5°	2771.0	1537.7	545.5	464.6	462.0	479.5	466.3	453.2	437.0	419.5	416.0
55°	2948.6	1545.2	513.6	438.4	447.5	445.8	441.0	429.2	420.4	397.2	397.7
57.5°	3147.2	1560.0	487.3	422.6	438.4	419.1	417.4	407.3	395.9	380.2	374.9
60°	3384.7	1583.2	464.6	416.5	430.5	401.6	392.9	388.9	377.5	369.7	371.9
62.5°	3643.7	1604.2	441.4	417.4	421.3	384.5	371.4	370.1	363.1	360.5	360.5
65°	3820.5	1546.9	412.5	416.5	406.9	367.0	350.4	350.0	344.3	343.4	343.0
67.5°	3758.8	1365.4	373.6	404.2	392.0	349.5	331.2	329.4	322.0	322.4	322.4
70°	3449.9	1106.4	319.8	374.0	373.6	333.8	311.0	305.4	295.3	297.0	298.8
72.5°	2870.7	819.8	247.6	323.7	344.3	319.4	287.9	278.7	266.0	267.7	267.3
75°	2073.2	557.3	180.2	246.3	299.7	302.3	265.1	249.4	234.0	236.7	237.5
77.5°	1060.9	315.9	132.6	169.7	235.4	274.7	244.5	223.5	220.0	244.5	241.0
80°	346.0	158.4	91.9	119.0	154.4	224.9	214.4	190.3	189.4	195.1	167.6
82.5°	103.2	66.9	59.1	78.3	85.3	172.4	185.1	143.9	123.8	130.4	134.7
85°	35.4	32.4	33.7	38.9	40.7	101.1	129.5	95.4	90.1	99.3	98.0
87.5°	8.3	11.4	9.6	8.7	8.7	24.5	50.3	39.8	55.1	36.7	35.4
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)