

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: P941455

Luminaire Tested: **GALN-SB5A-730-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-730-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22452 lumens
Efficiency: N/A
Efficacy: 158.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

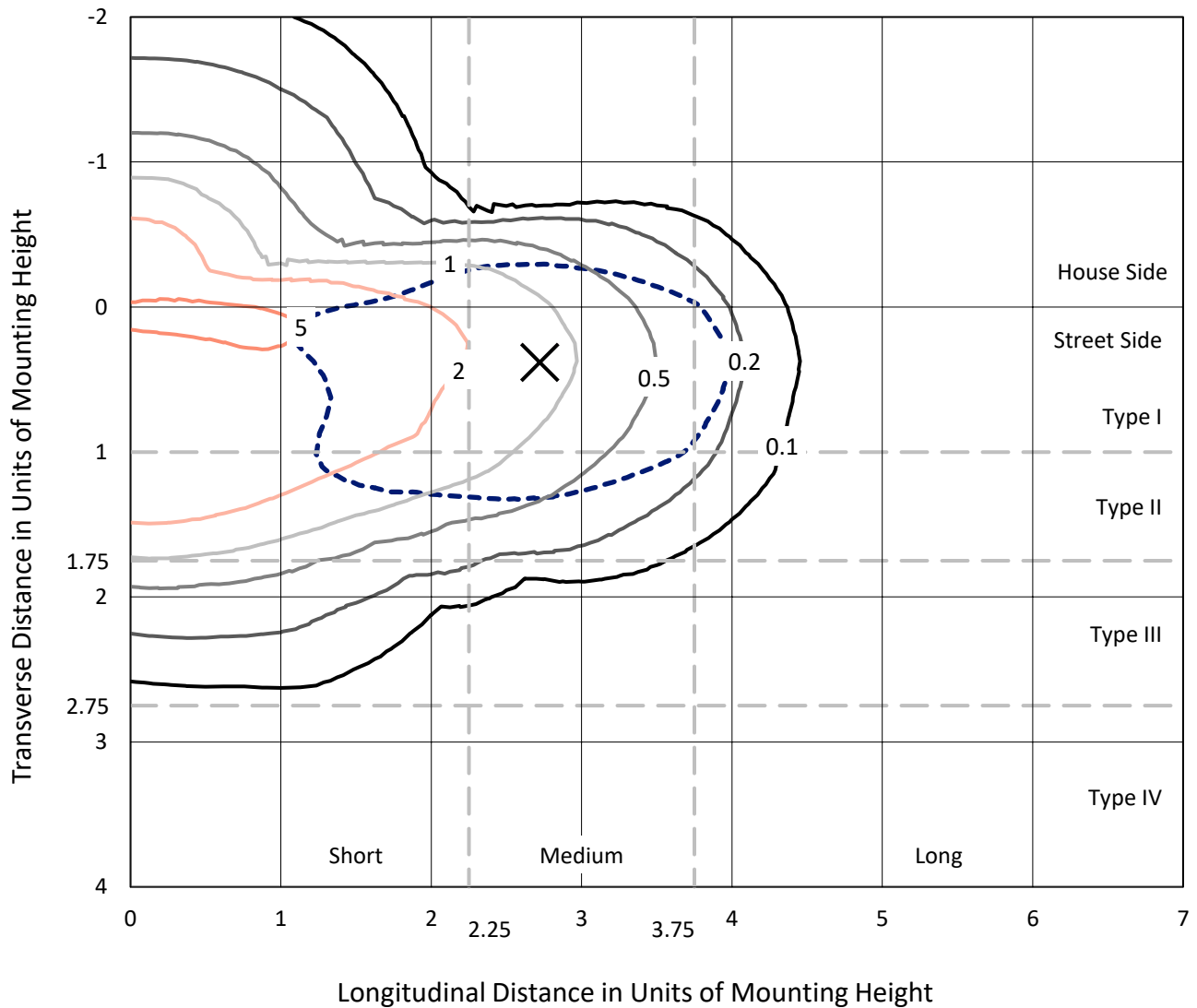
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

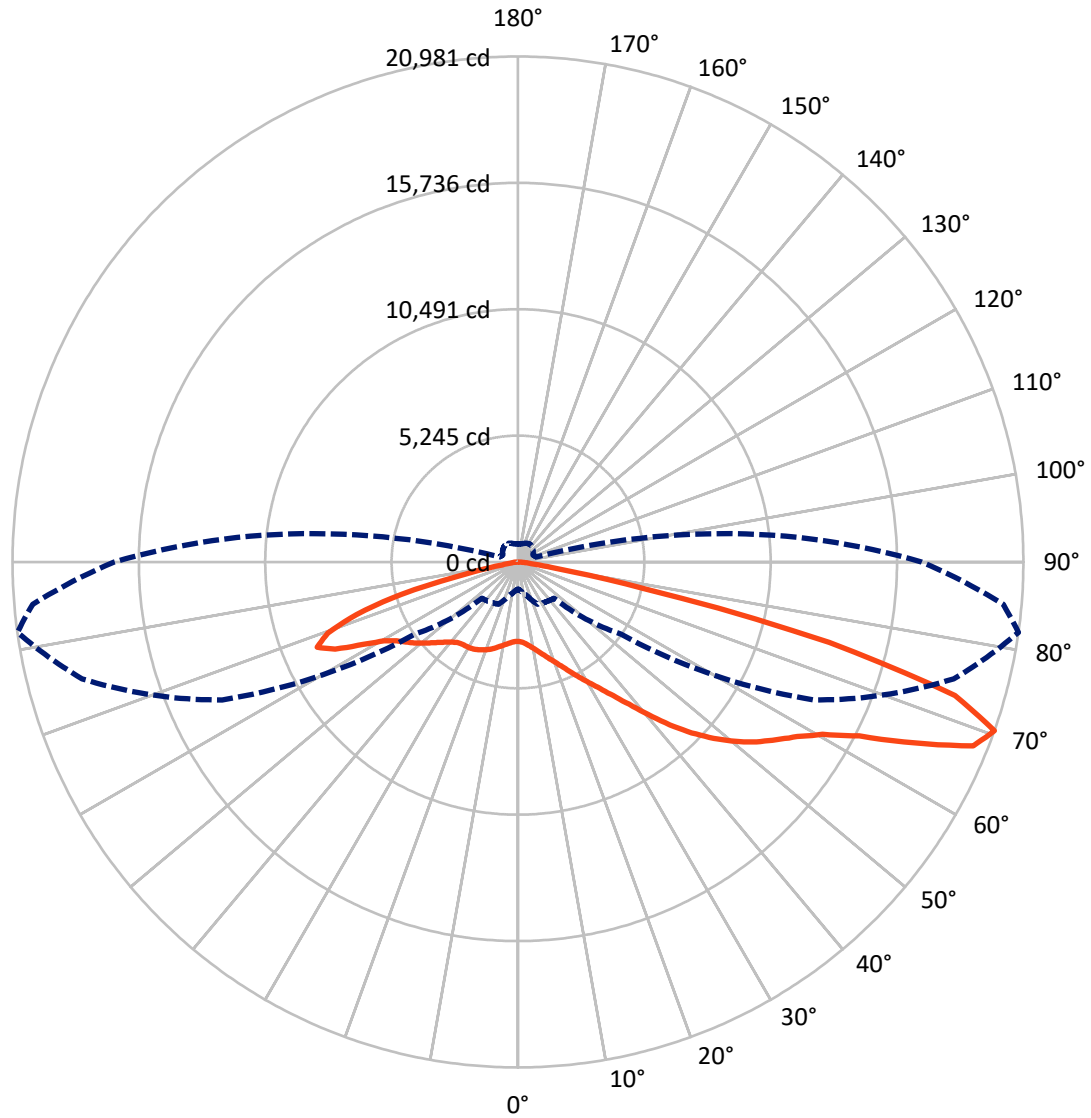
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5535.0	0.0	5535.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	16917.0	0.0	16917.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	22452.0	0.0	22452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	1.4
10°-20°	892.9	4.0
20°-30°	1493.8	6.7
30°-40°	2333.7	10.4
40°-50°	3716.7	16.6
50°-60°	5172.2	23.0
60°-70°	5410.4	24.1
70°-80°	2827.8	12.6
80°-90°	293.6	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°	22452.0	100.0
0°-180°	22452.0	100.0

Coefficient of Utilization



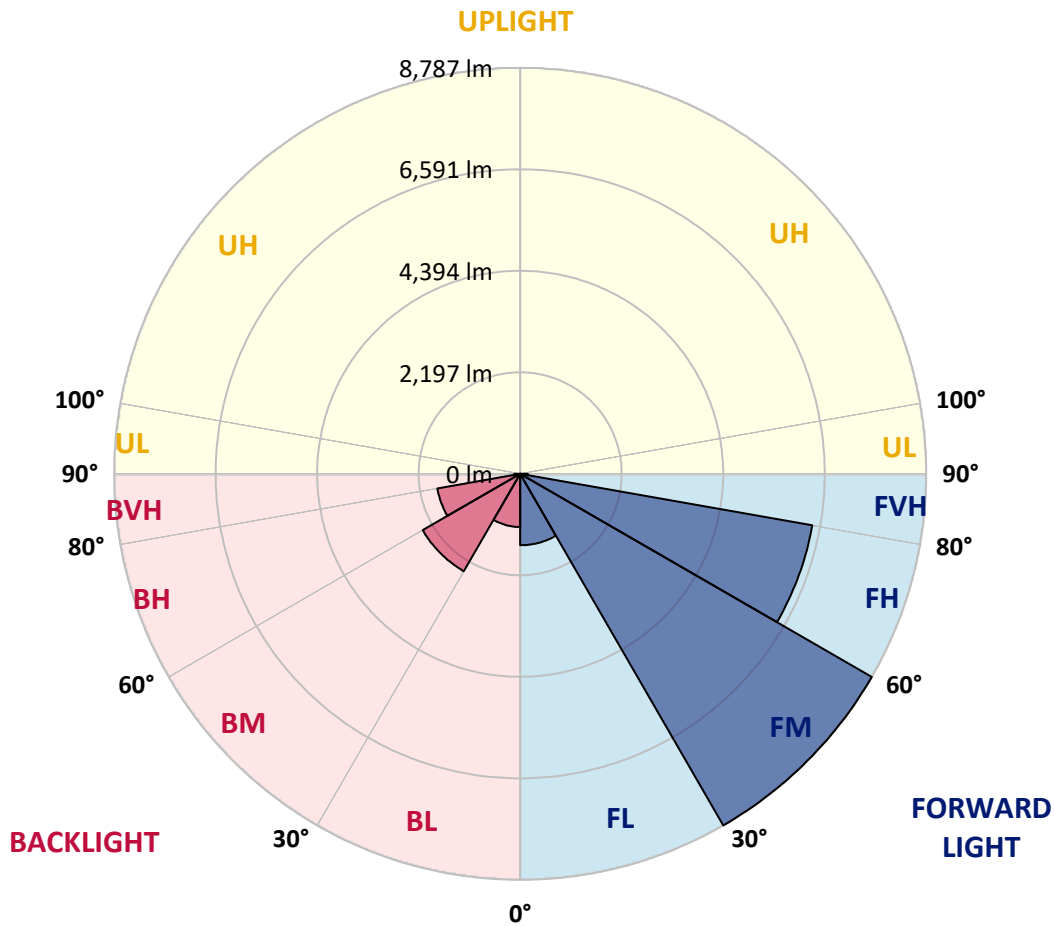
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.1	6.9			
FM (30°-60°)	8787.5	39.1			
FH (60°-80°)	6419.1	28.6			G3/7500
FVH (80°-90°)	164.4	0.7			G2/225
BL (0°-30°)	1151.5	5.1	B3/2500		
BM (30°-60°)	2435.2	10.8	B2/2500		
BH (60°-80°)	1819.1	8.1	B3/2500		G3/2500
BVH (80°-90°)	129.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7
2.5°	3370.4	3389.4	3383.5	3377.5	3377.5	3369.2	3368.0	3356.1	3346.5	3331.1	3327.5
5°	3413.3	3433.5	3431.1	3435.9	3451.4	3455.0	3458.5	3451.4	3432.3	3413.3	3404.9
7.5°	3375.1	3397.8	3404.9	3433.5	3481.2	3524.1	3556.2	3569.3	3551.5	3524.1	3511.0
10°	3246.5	3271.5	3296.5	3364.4	3449.0	3550.3	3636.0	3687.3	3683.7	3657.5	3634.9
12.5°	2985.6	3011.8	3065.4	3197.6	3352.5	3531.2	3690.9	3798.1	3835.0	3815.9	3776.6
15°	2777.1	2799.7	2840.2	2976.0	3177.4	3449.0	3711.1	3919.6	4013.7	4003.0	3955.3
17.5°	2771.1	2780.6	2805.7	2870.0	3024.9	3320.3	3689.7	4038.7	4218.6	4217.4	4157.9
20°	2876.0	2879.5	2893.8	2906.9	2995.1	3222.6	3634.9	4137.6	4448.6	4448.6	4384.2
22.5°	3021.3	3018.9	3033.2	3021.3	3064.2	3214.3	3600.3	4224.6	4704.7	4723.8	4642.8
25°	3239.3	3227.4	3223.8	3196.4	3204.8	3291.7	3638.4	4323.5	5008.5	5047.8	4946.6
27.5°	3530.0	3511.0	3497.9	3434.7	3413.3	3451.4	3755.2	4442.6	5346.9	5414.8	5286.1
30°	3908.9	3874.3	3855.3	3745.7	3668.2	3674.2	3931.5	4601.1	5700.7	5810.3	5647.1
32.5°	4425.9	4372.3	4321.1	4141.2	3999.4	3953.0	4159.1	4820.3	6084.3	6259.4	6049.8
35°	5004.9	4962.0	4907.2	4629.6	4411.6	4304.4	4466.4	5126.4	6533.5	6811.0	6538.2
37.5°	5562.5	5525.6	5551.8	5177.7	4896.5	4740.4	4869.1	5537.5	7087.4	7497.3	7150.6
40°	6139.1	6110.5	6114.1	5756.7	5429.1	5253.9	5357.6	6053.3	7722.4	8313.4	7886.8
42.5°	6765.8	6744.3	6672.8	6355.9	5987.8	5824.6	5919.9	6649.0	8403.9	9242.6	8694.6
45°	7467.5	7454.4	7387.7	7024.3	6602.5	6419.1	6547.7	7306.6	9088.9	10117.1	9505.9
47.5°	8073.9	8084.6	8076.3	7770.1	7332.9	7063.6	7217.3	7992.9	9726.3	10939.1	10283.9
50°	8365.8	8421.8	8504.0	8408.7	8137.0	7863.0	7892.8	8655.3	10333.9	11709.9	11029.7
52.5°	8213.3	8319.3	8543.3	8695.8	8800.6	8743.4	8663.6	9312.9	10905.8	12405.7	11735.0
55°	7645.0	7793.9	8165.6	8533.8	9068.7	9484.5	9589.3	10042.0	11463.3	13018.1	12402.1
57.5°	6609.7	6851.5	7185.1	7929.7	8830.4	9843.1	10668.7	11053.5	12054.2	13672.1	13100.3
60°	4834.6	5158.6	5573.2	6681.2	7996.4	9651.3	11587.2	12607.0	12894.2	14519.2	14009.3
62.5°	3094.0	3294.1	3675.4	4719.0	6230.8	8668.4	11868.4	14549.0	14317.8	15908.3	15372.2
65°	2118.2	2246.9	2596.0	3182.1	4028.0	6452.4	11115.4	16004.8	16579.0	18110.0	17702.5
67.5°	1539.2	1636.9	1934.8	2448.3	2624.6	3818.3	8625.5	15938.1	18777.1	20378.3	19744.5
70°	1122.3	1191.4	1441.6	1934.8	2019.4	2124.2	5225.3	13548.2	18729.5	20981.1	20222.2
72.5°	831.6	879.2	1047.2	1501.1	1634.6	1434.4	2586.5	9846.6	16094.2	18977.3	18368.5
75°	601.6	637.4	761.3	1148.5	1308.1	1092.5	1290.2	5754.3	11226.2	13349.3	13456.5
77.5°	459.9	487.3	568.3	841.1	1047.2	819.7	800.6	2647.2	5323.0	5349.2	5649.5
80°	369.3	387.2	431.3	592.1	803.0	613.6	521.8	1068.7	1682.2	1423.7	1494.0
82.5°	271.6	301.4	364.6	415.8	574.2	422.9	318.1	539.7	639.8	550.4	555.2
85°	154.9	175.1	220.4	297.8	366.9	258.5	182.3	239.5	297.8	244.2	218.0
87.5°	54.8	71.5	77.4	116.8	159.6	107.2	70.3	69.1	97.7	72.7	60.8
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°	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7	3291.7
2.5°	3315.6	3309.6	3285.8	3253.6	3220.3	3188.1	3177.4	3154.7	3139.2	3130.9	3140.4
5°	3382.3	3363.2	3307.2	3235.7	3160.7	3079.7	3022.5	2970.1	2932.0	2896.2	2910.5
7.5°	3477.6	3444.2	3347.7	3222.6	3089.2	2954.6	2854.5	2778.3	2727.0	2693.7	2700.8
10°	3588.4	3537.2	3389.4	3202.4	2996.3	2803.3	2685.3	2619.8	2587.6	2569.8	2574.5
12.5°	3715.9	3643.2	3432.3	3155.9	2854.5	2634.1	2553.1	2534.0	2535.2	2536.4	2538.8
15°	3873.1	3771.9	3466.9	3054.7	2669.9	2504.3	2490.0	2520.9	2553.1	2568.6	2567.4
17.5°	4050.6	3907.7	3472.8	2887.9	2488.8	2420.9	2466.1	2532.8	2581.7	2603.1	2607.9
20°	4241.3	4045.9	3429.9	2652.0	2339.8	2352.9	2434.0	2519.7	2573.4	2600.8	2607.9
22.5°	4459.3	4193.6	3327.5	2404.2	2218.3	2279.1	2374.4	2457.8	2513.8	2541.2	2548.3
25°	4708.3	4359.2	3166.7	2195.7	2113.5	2195.7	2291.0	2360.1	2405.4	2430.4	2437.5
27.5°	4984.7	4532.0	2952.2	2030.1	2021.7	2109.9	2188.5	2242.2	2266.0	2285.0	2292.2
30°	5262.3	4689.2	2692.5	1905.0	1941.9	2025.3	2081.3	2105.1	2112.3	2115.9	2124.2
32.5°	5562.5	4825.0	2419.7	1801.3	1865.7	1943.1	1976.5	1987.2	1953.8	1931.2	1938.4
35°	5925.9	4970.4	2152.8	1719.1	1790.6	1857.3	1868.1	1858.5	1819.2	1772.8	1775.1
37.5°	6375.0	5151.5	1939.5	1660.8	1720.3	1764.4	1751.3	1748.9	1752.5	1697.7	1701.3
40°	6925.4	5387.4	1783.5	1615.5	1663.1	1672.7	1635.7	1656.0	1673.9	1590.5	1592.9
42.5°	7536.6	5672.1	1684.6	1584.5	1615.5	1592.9	1535.7	1558.3	1555.9	1446.3	1445.1
45°	8159.7	5981.8	1650.0	1561.9	1571.4	1526.1	1463.0	1469.0	1418.9	1320.0	1323.6
47.5°	8779.2	6314.2	1671.5	1542.8	1516.6	1465.4	1416.5	1390.3	1316.5	1242.6	1242.6
50°	9386.8	6663.3	1750.1	1504.7	1441.6	1411.8	1376.0	1329.6	1250.9	1187.8	1183.0
52.5°	9950.3	7014.8	1838.3	1441.6	1347.4	1365.3	1342.7	1289.1	1211.6	1147.3	1148.5
55°	10484.0	7366.2	1872.8	1354.6	1259.3	1324.8	1311.7	1212.8	1119.9	1067.5	1062.7
57.5°	11065.4	7789.2	1834.7	1243.8	1187.8	1278.3	1228.3	1118.7	1065.1	1025.8	1022.2
60°	11870.8	8452.7	1752.5	1106.8	1119.9	1209.2	1123.5	1078.2	1019.8	975.7	973.3
62.5°	13208.7	9690.6	1620.3	971.0	1040.1	1106.8	1073.4	1028.1	968.6	925.7	925.7
65°	15186.3	11410.9	1371.3	864.9	950.7	1006.7	1019.8	974.5	912.6	867.3	869.7
67.5°	16854.3	12490.3	1037.7	776.8	859.0	925.7	962.6	918.5	853.0	808.9	810.1
70°	16762.5	11706.4	792.3	689.8	778.0	845.9	893.5	859.0	788.7	747.0	750.6
72.5°	14888.5	9793.0	641.0	601.6	695.8	762.5	819.7	793.4	722.0	681.5	681.5
75°	10937.9	6951.6	512.3	512.3	593.3	675.5	738.6	722.0	656.4	627.8	619.5
77.5°	4610.6	2916.5	401.5	425.3	493.2	580.2	658.8	664.8	607.6	643.3	583.8
80°	1225.9	804.2	306.2	334.8	387.2	478.9	573.0	570.7	508.7	475.4	442.0
82.5°	467.0	316.9	218.0	235.9	280.0	366.9	453.9	468.2	406.3	351.5	351.5
85°	179.9	135.8	134.6	141.8	163.2	243.0	343.1	355.0	306.2	259.7	268.1
87.5°	46.5	40.5	50.0	47.7	75.1	129.9	196.6	203.7	187.0	108.4	154.9
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)