

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: P954861

Luminaire Tested: **GALN-SB8A-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954861
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-SB8A-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 34268 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 227.1
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



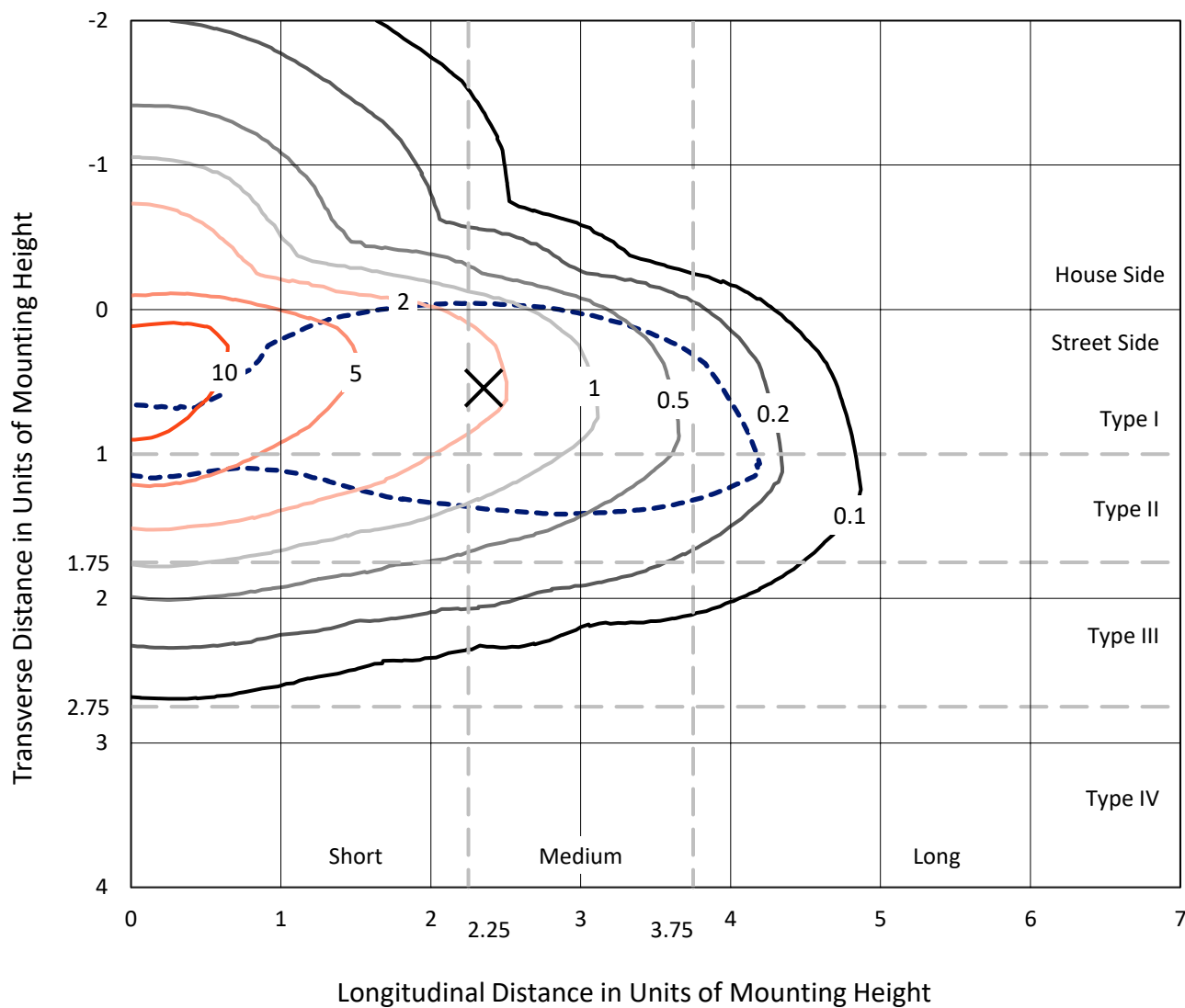
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Iso-Footcandle Lines of Horizontal Illumination

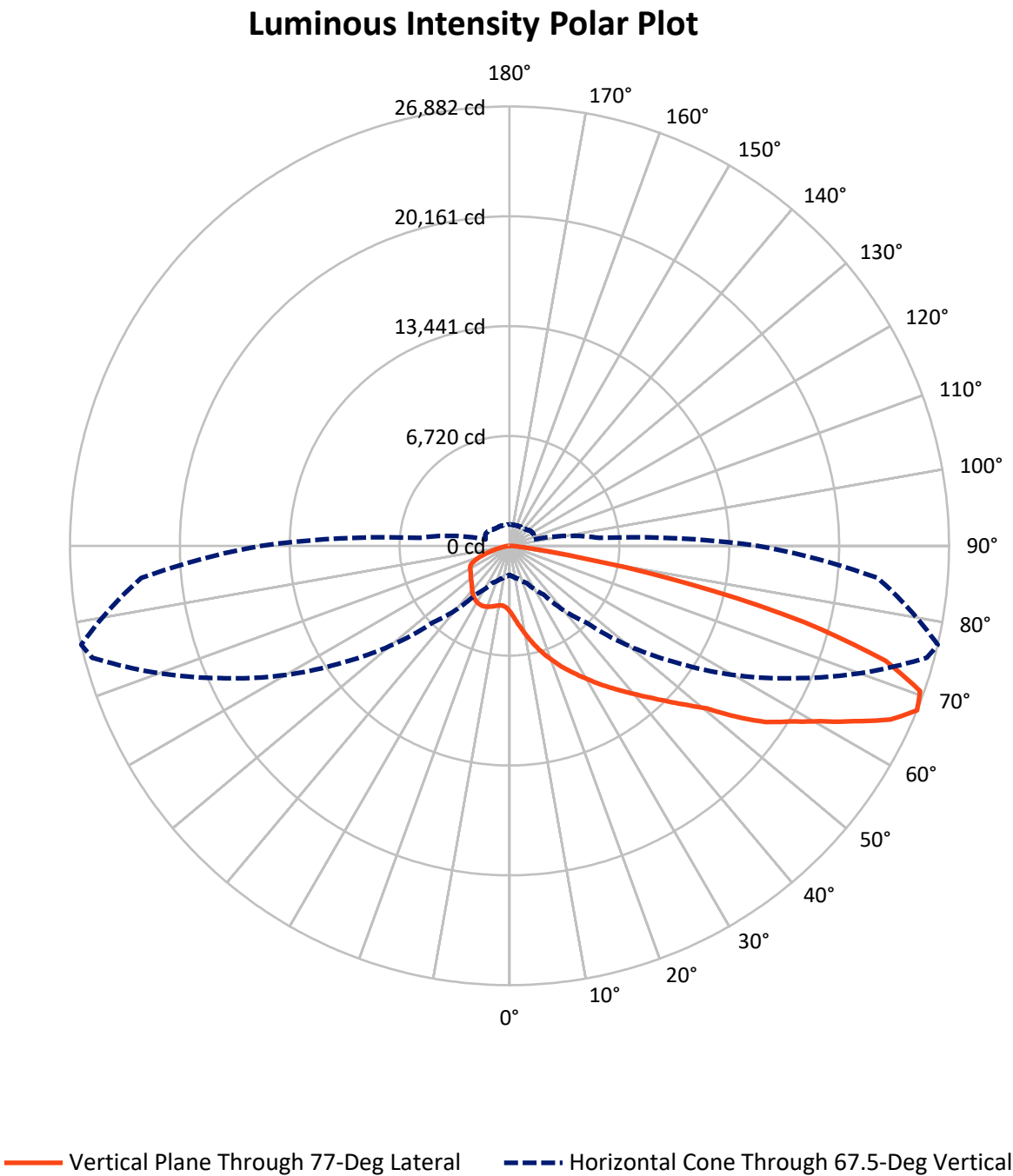
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6482.1	0.0	6482.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	27785.9	0.0	27785.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	34268.0	0.0	34268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.0	1.3
10°-20°	1548.3	4.5
20°-30°	2923.3	8.5
30°-40°	4709.4	13.7
40°-50°	6441.6	18.8
50°-60°	7266.2	21.2
60°-70°	6782.1	19.8
70°-80°	3717.7	10.8
80°-90°	448.4	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°	34268.0	100.0
0°-180°	34268.0	100.0

Coefficient of Utilization



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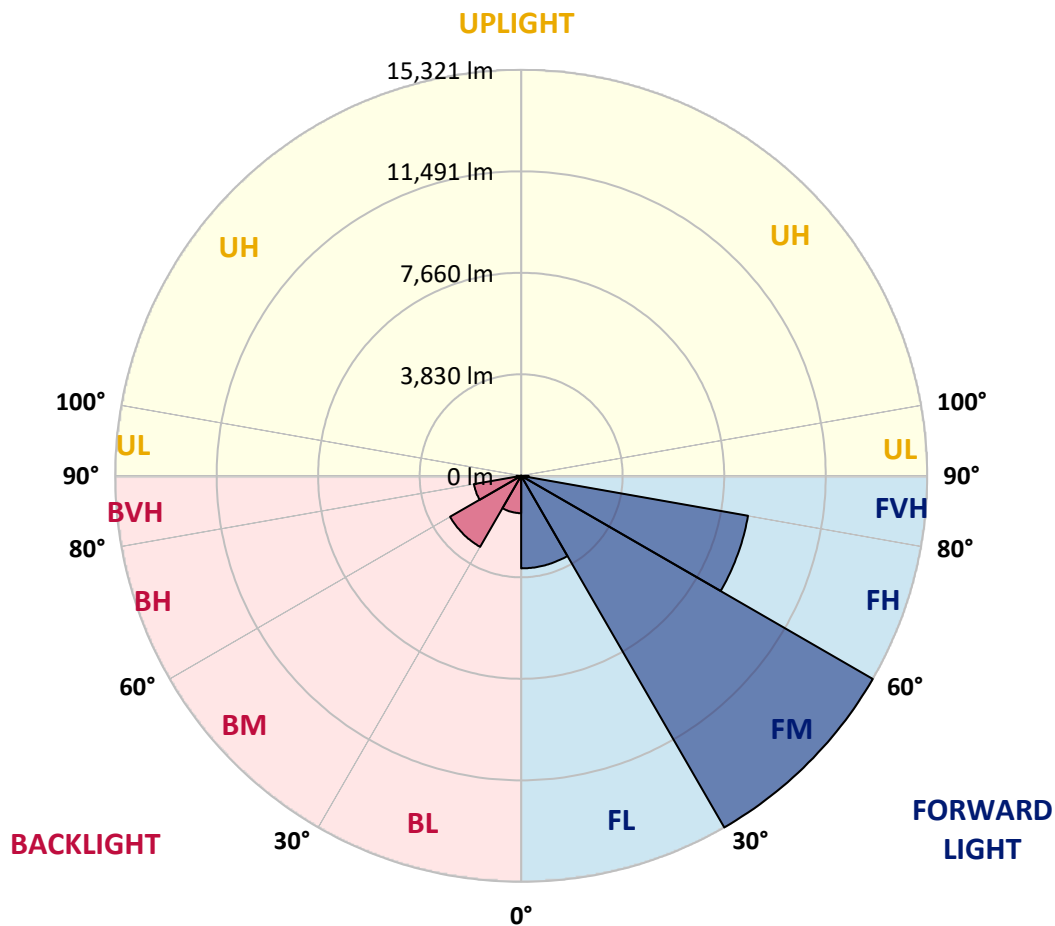
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3493.2	10.2			
FM	(30°-60°)	15320.8	44.7			
FH	(60°-80°)	8691.4	25.4			G4/12000
FVH	(80°-90°)	280.4	0.8			G3/500
BL	(0°-30°)	1409.4	4.1	B3/2500		
BM	(30°-60°)	3096.4	9.0	B3/5000		
BH	(60°-80°)	1808.4	5.3	B3/2500		G3/2500
BVH	(80°-90°)	168.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7
2.5°	5034.3	5069.7	5025.4	5025.4	4876.8	4799.0	4650.4	4537.2	4333.8	4298.4	4164.0
5°	5950.6	5994.8	5932.9	5906.3	5731.2	5570.3	5320.8	5075.0	4712.3	4675.2	4358.6
7.5°	6659.9	6716.5	6661.7	6633.4	6477.7	6297.3	6005.4	5662.2	5151.0	5078.5	4620.4
10°	7238.3	7247.2	7229.5	7240.1	7118.0	6969.5	6670.5	6270.7	5632.2	5533.1	4937.0
12.5°	7565.6	7606.3	7641.6	7705.3	7684.1	7592.1	7323.2	6845.6	6141.6	6014.2	5281.9
15°	7719.5	7790.2	7869.8	8016.6	8135.2	8158.1	7953.0	7463.0	6659.9	6506.0	5630.4
17.5°	7774.3	7841.5	7967.1	8179.4	8434.1	8605.7	8513.7	8062.6	7172.9	6996.0	5996.6
20°	8052.0	8071.5	8147.5	8349.2	8625.1	8909.9	8978.9	8639.3	7680.5	7480.7	6375.1
22.5°	8646.4	8607.4	8628.7	8720.7	8918.8	9194.7	9352.2	9148.7	8202.4	7972.4	6757.2
25°	9628.1	9514.9	9401.7	9295.5	9396.4	9552.0	9730.7	9658.2	8749.0	8457.1	7142.8
27.5°	10868.1	10730.1	10480.7	10132.2	10010.2	10065.0	10144.6	10130.5	9254.9	8959.5	7540.8
30°	12088.6	11927.7	11630.5	11126.4	10804.4	10659.4	10599.2	10558.5	9805.0	9490.1	7942.3
32.5°	13063.3	12935.9	12644.1	12079.8	11612.8	11365.2	11165.3	11020.2	10379.9	10065.0	8366.9
35°	13915.9	13797.4	13463.1	12847.5	12339.8	12076.3	11814.5	11504.9	10977.8	10659.4	8823.3
37.5°	14694.2	14575.7	14117.6	13477.2	12966.0	12783.8	12550.3	12025.0	11577.4	11276.7	9306.2
40°	15186.0	15159.4	14731.4	14006.1	13475.5	13385.2	13307.4	12628.1	12242.5	11963.0	9836.8
42.5°	15311.6	15369.9	15030.3	14434.2	13928.3	13855.8	14038.0	13310.9	12989.0	12721.9	10438.3
45°	15009.1	15177.1	14954.2	14549.2	14250.2	14211.3	14685.4	14057.4	13815.1	13571.0	11163.5
47.5°	14243.2	14527.9	14436.0	14379.4	14336.9	14504.9	15255.0	14849.9	14750.8	14538.6	11991.3
50°	12697.1	13236.7	13397.6	13754.9	14165.3	14733.1	15773.2	15714.9	15844.0	15630.0	12999.6
52.5°	10024.3	10767.3	11701.2	12596.3	13638.2	14657.1	16342.8	16956.6	17501.5	17384.7	14602.2
55°	8274.9	8609.2	9327.4	10968.9	12615.8	14336.9	16599.3	17959.6	19146.5	19042.2	15817.5
57.5°	6930.5	7229.5	7671.7	9042.6	11069.8	13609.9	16758.5	18571.6	20273.3	20262.7	17016.8
60°	5488.9	5805.5	6258.4	7229.5	9263.7	12354.0	16723.1	19268.6	21711.4	21799.9	18479.7
62.5°	3861.5	4210.0	4712.3	5618.0	7418.8	10726.6	16001.4	19772.7	23404.3	23644.8	20239.7
65°	2538.4	2768.3	3146.9	3928.7	5527.8	8634.0	14623.5	19838.2	25215.6	25622.5	21891.9
67.5°	1779.5	1868.0	2090.8	2515.4	3643.9	6621.0	12428.3	19160.7	26423.8	26881.9	22608.3
70°	1388.6	1432.8	1546.0	1715.8	2289.0	4452.3	9523.7	17398.9	26165.5	26643.1	21860.0
72.5°	1199.3	1241.8	1284.2	1305.4	1535.4	2748.9	6451.2	14547.4	23733.3	24057.0	19006.8
75°	1087.9	1098.5	1133.9	1126.8	1171.0	1783.0	3723.5	10599.2	18725.5	18614.1	14030.9
77.5°	914.5	928.7	987.0	978.2	1040.1	1218.8	1933.4	6840.3	12139.9	11382.8	7809.7
80°	774.8	781.9	845.5	834.9	903.9	882.7	987.0	3486.5	5149.3	4362.1	2251.8
82.5°	268.9	332.6	645.6	665.1	689.9	534.2	569.6	1422.2	1572.5	1204.6	472.3
85°	130.9	139.7	329.0	467.0	465.2	268.9	277.7	507.7	495.3	389.2	157.4
87.5°	21.2	26.5	38.9	182.2	145.0	70.8	95.5	99.1	102.6	88.4	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7	4020.7
2.5°	4064.9	3976.5	3790.7	3619.2	3484.7	3355.6	3283.1	3221.2	3185.8	3178.7	3178.7
5°	4174.6	3992.4	3654.5	3369.7	3184.0	3046.0	2973.5	2927.5	2904.5	2890.4	2888.6
7.5°	4332.0	4064.9	3583.8	3260.1	3065.5	2966.4	2929.3	2922.2	2920.4	2922.2	2927.5
10°	4549.6	4183.4	3576.7	3233.5	3070.8	3016.0	3014.2	3016.0	3023.0	3024.8	3026.6
12.5°	4784.9	4305.5	3605.0	3256.5	3138.0	3108.0	3102.6	3100.9	3106.2	3109.7	3111.5
15°	5041.4	4466.5	3652.8	3306.1	3212.3	3180.5	3175.2	3164.6	3162.8	3161.0	3159.2
17.5°	5304.9	4625.7	3705.8	3359.1	3260.1	3215.9	3196.4	3171.6	3152.2	3146.9	3152.2
20°	5572.0	4783.1	3743.0	3385.7	3263.6	3201.7	3162.8	3120.3	3086.7	3067.3	3074.3
22.5°	5856.8	4947.6	3766.0	3378.6	3231.8	3146.9	3076.1	3026.6	2975.3	2941.7	2943.4
25°	6134.5	5090.9	3764.2	3341.4	3169.9	3062.0	2971.7	2908.1	2837.3	2801.9	2801.9
27.5°	6401.6	5220.0	3720.0	3276.0	3081.4	2961.1	2853.2	2777.2	2708.2	2674.6	2672.8
30°	6677.6	5327.9	3651.0	3180.5	2977.1	2844.4	2725.9	2660.4	2598.5	2566.7	2564.9
32.5°	6951.8	5427.0	3553.7	3062.0	2856.8	2729.4	2612.7	2552.5	2515.4	2515.4	2517.1
35°	7241.9	5496.0	3424.6	2924.0	2729.4	2607.4	2515.4	2480.0	2476.5	2455.2	2449.9
37.5°	7547.9	5540.2	3267.2	2782.5	2603.8	2488.8	2460.5	2418.1	2382.7	2336.7	2329.6
40°	7869.8	5584.4	3077.9	2635.7	2471.1	2407.5	2395.1	2338.5	2237.7	2124.4	2108.5
42.5°	8260.7	5614.5	2881.5	2488.8	2331.4	2310.2	2327.9	2230.6	2069.6	1984.7	1986.5
45°	8713.6	5664.0	2701.1	2343.8	2188.1	2188.1	2262.4	2135.1	2002.4	1949.3	1958.2
47.5°	9300.9	5779.0	2533.1	2184.6	2055.5	2090.8	2117.4	2020.1	1945.8	1880.3	1878.6
50°	10149.9	6054.9	2359.7	2023.6	1954.6	2025.4	1988.2	1931.6	1845.0	1791.9	1786.6
52.5°	11204.2	6217.7	2205.8	1878.6	1868.0	1938.7	1885.6	1832.6	1767.1	1696.4	1682.2
55°	11922.4	6247.7	2076.7	1772.4	1809.6	1802.5	1783.0	1735.3	1699.9	1606.2	1607.9
57.5°	12725.4	6307.9	1970.6	1708.8	1772.4	1694.6	1687.5	1646.8	1600.9	1537.2	1515.9
60°	13685.9	6401.6	1878.6	1684.0	1740.6	1623.8	1588.5	1572.5	1526.6	1494.7	1503.6
62.5°	14733.1	6486.5	1784.8	1687.5	1703.4	1554.9	1501.8	1496.5	1468.2	1457.6	1457.6
65°	15447.8	6254.8	1668.1	1684.0	1645.1	1484.1	1416.9	1415.1	1392.1	1388.6	1386.8
67.5°	15198.4	5520.7	1510.6	1634.5	1584.9	1413.3	1339.1	1332.0	1301.9	1303.7	1303.7
70°	13949.5	4473.5	1293.1	1512.4	1510.6	1349.7	1257.7	1234.7	1194.0	1201.1	1208.2
72.5°	11607.5	3314.9	1001.2	1309.0	1392.1	1291.3	1163.9	1126.8	1075.5	1082.6	1080.8
75°	8382.8	2253.6	728.8	995.9	1211.7	1222.3	1072.0	1008.3	946.4	957.0	960.5
77.5°	4289.6	1277.1	536.0	686.3	951.7	1110.9	988.8	903.9	889.8	988.8	974.7
80°	1399.2	640.3	371.5	481.1	624.4	909.2	866.8	769.5	765.9	788.9	677.5
82.5°	417.5	270.6	238.8	316.6	344.9	696.9	748.2	582.0	500.6	527.1	544.8
85°	143.3	130.9	136.2	157.4	164.5	408.6	523.6	385.6	364.4	401.5	396.2
87.5°	33.6	46.0	38.9	35.4	35.4	99.1	203.4	161.0	222.9	148.6	143.3
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)