

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: P942804

Luminaire Tested: **GALN-SB7A-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21607 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 199.1
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

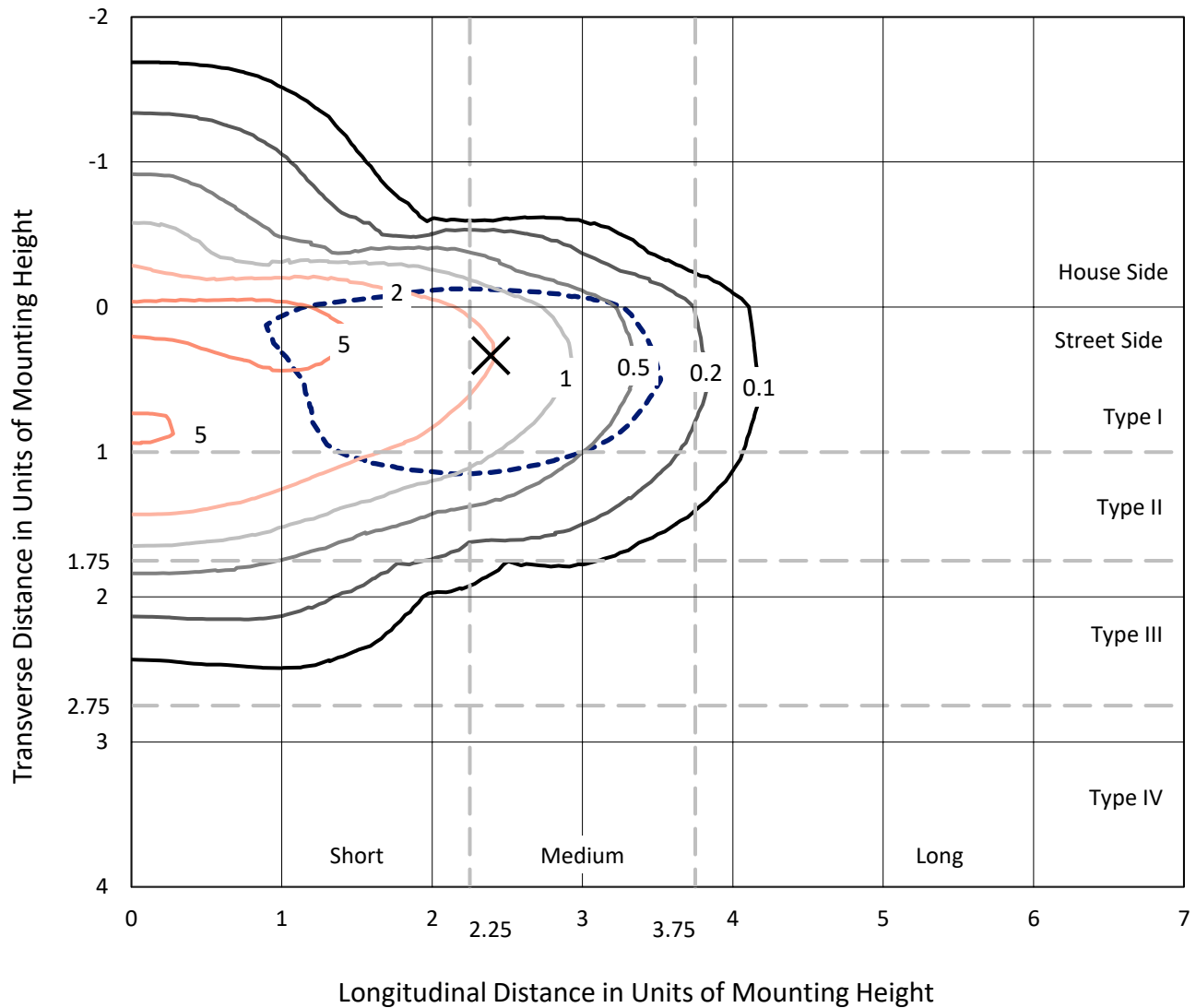


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

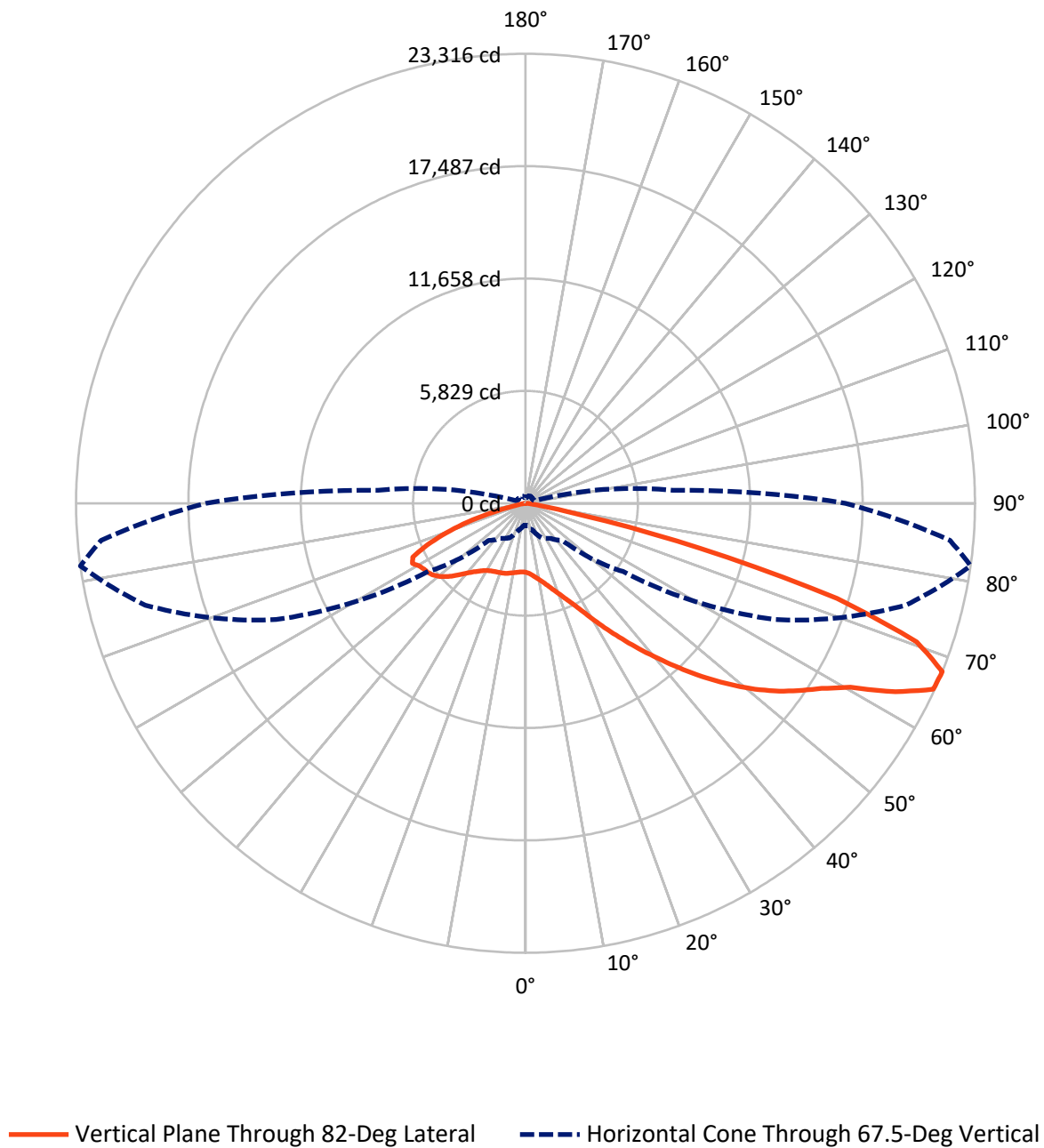


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3913.9	0.0	3913.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17693.1	0.0	17693.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	21607.0	0.0	21607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.9	1.5
10°-20°	828.7	3.8
20°-30°	1327.3	6.1
30°-40°	2347.2	10.9
40°-50°	4112.4	19.0
50°-60°	5484.9	25.4
60°-70°	5106.1	23.6
70°-80°	1959.7	9.1
80°-90°	121.7	0.6
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°	21607.0	100.0
0°-180°	21607.0	100.0

Coefficient of Utilization



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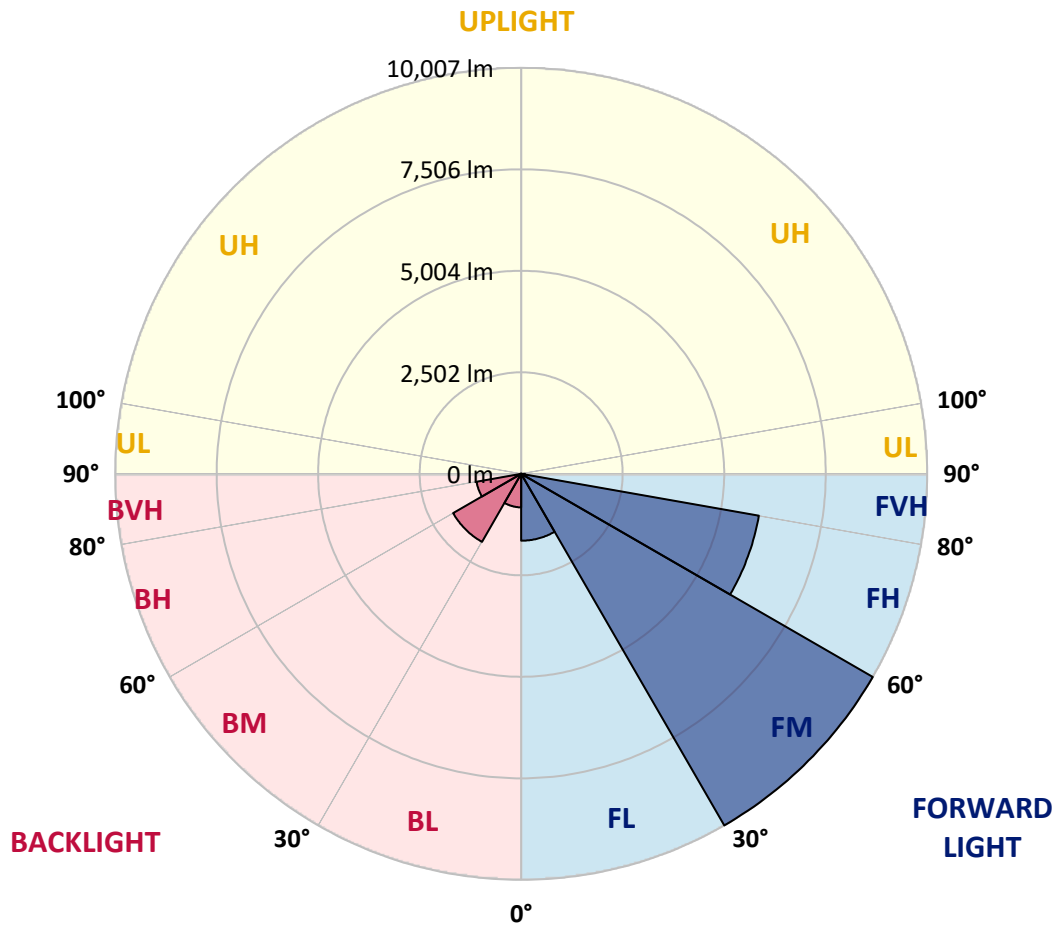
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1648.4	7.6			
FM	(30°-60°)	10007.5	46.3			
FH	(60°-80°)	5948.7	27.5			G3/7500
FVH	(80°-90°)	88.5	0.4			G1/100
BL	(0°-30°)	826.6	3.8	B2/1000		
BM	(30°-60°)	1937.0	9.0	B2/2500		
BH	(60°-80°)	1117.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	33.2	0.2			G1/100
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°	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5
2.5°	3783.3	3805.1	3792.7	3786.5	3775.6	3760.0	3747.6	3708.7	3668.2	3641.8	3632.4
5°	3859.6	3881.3	3879.8	3886.0	3893.8	3898.5	3895.3	3851.8	3794.2	3749.1	3722.7
7.5°	3794.2	3819.1	3839.3	3870.5	3924.9	3982.5	4010.5	4001.1	3942.0	3879.8	3847.1
10°	3609.1	3635.6	3683.8	3756.9	3872.0	3996.5	4100.7	4148.9	4111.6	4043.1	3998.0
12.5°	3270.0	3296.4	3391.3	3550.0	3742.9	3959.1	4158.3	4287.4	4296.7	4228.3	4175.4
15°	2888.8	2915.3	3016.4	3215.5	3509.5	3856.5	4189.4	4433.6	4516.0	4456.9	4393.2
17.5°	2652.4	2675.7	2751.9	2912.2	3218.6	3651.1	4178.5	4589.2	4777.4	4730.7	4654.5
20°	2580.8	2601.0	2636.8	2748.8	3004.0	3438.0	4106.9	4735.4	5059.0	5032.5	4947.0
22.5°	2657.0	2675.7	2686.6	2736.4	2896.6	3298.0	4016.7	4884.7	5385.7	5388.8	5284.5
25°	2832.8	2851.5	2839.1	2870.2	2940.2	3254.4	3982.5	5060.5	5796.3	5830.6	5712.3
27.5°	3122.2	3123.7	3094.2	3092.6	3103.5	3319.8	4018.2	5248.8	6314.4	6378.2	6231.9
30°	3702.4	3679.1	3565.5	3442.7	3386.6	3515.8	4117.8	5471.2	6925.8	7039.3	6855.7
32.5°	4596.9	4562.7	4354.3	4060.2	3764.7	3831.6	4296.7	5724.8	7591.6	7796.9	7572.9
35°	5567.7	5558.3	5340.5	4903.4	4386.9	4281.1	4587.6	6057.7	8318.1	8644.7	8378.7
37.5°	6469.9	6465.3	6340.8	5825.9	5197.4	4908.1	5054.3	6493.3	9095.9	9568.8	9254.6
40°	7294.4	7308.4	7184.0	6723.5	6090.4	5712.3	5689.0	7031.5	9960.8	10575.3	10201.9
42.5°	8006.9	8022.5	7896.5	7555.8	6972.4	6602.2	6468.4	7691.1	10805.5	11656.5	11214.7
45°	8490.7	8587.2	8568.5	8296.3	7877.8	7493.6	7404.9	8518.7	11768.5	12803.0	12285.0
47.5°	8627.6	8716.3	8856.3	8893.6	8638.5	8260.5	8366.3	9515.9	12742.3	13951.1	13361.5
50°	8290.1	8372.5	8663.4	9050.8	9228.1	9111.4	9301.2	10584.6	13739.5	15096.0	14417.8
52.5°	7624.2	7708.2	8075.4	8688.3	9411.7	9778.8	10239.3	11637.8	14705.6	16180.3	15418.0
55°	6661.3	6750.0	7221.3	7915.1	9061.7	10054.2	11021.8	12689.4	15590.7	17155.7	16320.3
57.5°	5351.4	5416.8	5906.8	6877.5	8181.2	9780.4	11598.9	13837.5	16424.5	18114.0	17214.8
60°	3487.8	3545.3	4114.7	5197.4	6722.0	8865.6	11714.0	15117.8	17532.2	19360.1	18420.4
62.5°	2319.5	2358.4	2695.9	3490.9	4733.8	7109.3	11040.4	16139.9	19156.3	21528.6	20487.9
65°	1591.4	1630.3	1967.9	2521.7	3058.4	4702.7	9103.7	16004.5	20627.9	23250.7	22020.2
67.5°	1135.6	1168.3	1454.5	1977.2	2213.7	2731.7	6171.3	14274.6	20416.3	23316.1	22102.7
70°	813.6	832.3	1068.7	1540.1	1759.4	1641.2	3431.8	10917.5	17876.0	21530.2	20419.5
72.5°	569.4	575.6	742.0	1173.0	1417.2	1197.8	1633.4	7278.9	13520.1	16899.0	15830.3
75°	385.8	393.6	499.4	860.3	1137.2	914.7	864.9	3903.1	7936.9	9354.1	8384.9
77.5°	236.5	239.6	322.0	588.0	850.9	696.9	556.9	1653.7	3070.9	3014.8	2569.9
80°	133.8	133.8	205.3	365.6	580.3	449.6	390.5	703.2	972.3	854.1	752.9
82.5°	74.7	76.2	149.3	227.1	384.2	266.0	214.7	325.1	420.0	371.8	323.6
85°	31.1	34.2	91.8	107.3	183.6	132.2	87.1	136.9	155.6	138.5	101.1
87.5°	3.1	4.7	28.0	20.2	21.8	26.4	12.4	26.4	21.8	21.8	15.6
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°	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5	3579.5
2.5°	3602.9	3579.5	3520.4	3452.0	3361.8	3318.2	3259.1	3218.6	3184.4	3187.5	3156.4
5°	3672.9	3613.8	3481.5	3316.6	3111.3	2965.1	2809.5	2702.2	2615.0	2596.4	2554.4
7.5°	3769.3	3676.0	3444.2	3147.1	2800.2	2537.3	2302.4	2151.5	2044.1	2009.9	1975.7
10°	3893.8	3758.4	3396.0	2934.0	2434.6	2100.1	1848.1	1729.9	1656.8	1631.9	1613.2
12.5°	4038.5	3853.3	3332.2	2674.2	2058.1	1736.1	1575.9	1516.8	1493.4	1485.6	1481.0
15°	4220.5	3971.6	3235.8	2366.1	1739.2	1513.6	1445.2	1437.4	1440.5	1437.4	1435.9
17.5°	4436.7	4100.7	3078.6	2048.8	1524.5	1400.1	1375.2	1381.4	1389.2	1387.6	1384.5
20°	4673.2	4228.3	2878.0	1767.2	1378.3	1319.2	1305.2	1311.4	1317.6	1314.5	1313.0
22.5°	4942.3	4365.2	2655.5	1547.9	1280.3	1244.5	1229.0	1230.5	1230.5	1224.3	1221.2
25°	5264.3	4516.0	2422.1	1392.3	1205.6	1177.6	1159.0	1152.7	1143.4	1124.7	1121.6
27.5°	5648.6	4676.3	2198.1	1283.4	1146.5	1120.1	1098.3	1082.7	1059.4	1028.3	1025.2
30°	6081.0	4870.7	2008.3	1215.0	1099.8	1073.4	1048.5	1025.2	990.9	952.1	948.9
32.5°	6589.7	5079.2	1869.9	1169.8	1057.8	1029.8	1000.3	972.3	934.9	896.1	897.6
35°	7196.4	5331.2	1789.0	1138.7	1025.2	987.8	955.2	924.1	896.1	861.8	858.7
37.5°	7854.5	5598.8	1764.1	1123.2	1003.4	945.8	908.5	886.7	883.6	863.4	861.8
40°	8574.7	5916.1	1782.8	1113.8	980.1	905.4	864.9	860.3	868.1	832.3	833.8
42.5°	9337.0	6292.6	1813.9	1103.0	947.4	864.9	826.0	826.0	819.8	770.0	770.0
45°	10161.5	6726.6	1845.0	1076.5	908.5	824.5	794.9	784.0	757.6	709.4	707.8
47.5°	10992.2	7168.4	1868.3	1028.3	861.8	790.3	763.8	738.9	700.0	656.5	654.9
50°	11780.9	7565.1	1843.4	956.7	808.9	757.6	729.6	695.4	653.4	623.8	619.1
52.5°	12485.6	7908.9	1737.7	872.7	752.9	723.4	698.5	662.7	628.5	597.4	594.3
55°	13098.6	8187.4	1551.0	793.4	703.2	693.8	668.9	623.8	577.1	550.7	547.6
57.5°	13686.6	8398.9	1317.6	728.0	658.0	661.2	623.8	583.4	539.8	511.8	508.7
60°	14469.1	8682.1	1081.2	667.4	609.8	619.1	578.7	549.1	494.7	458.9	454.2
62.5°	15719.8	9122.3	858.7	592.7	553.8	556.9	539.8	504.0	438.7	396.7	393.6
65°	16712.3	8960.5	676.7	511.8	490.0	494.7	494.7	455.8	385.8	337.6	332.9
67.5°	16600.3	7672.5	539.8	432.5	429.4	432.5	443.4	410.7	342.2	303.4	297.1
70°	15292.0	6102.8	432.5	359.4	373.4	365.6	396.7	374.9	308.0	269.1	264.5
72.5°	12477.9	4396.3	329.8	297.1	286.2	298.7	357.8	337.6	256.7	213.1	208.5
75°	7291.3	2345.9	245.8	234.9	206.9	248.9	317.4	287.8	196.0	157.1	152.5
77.5°	2373.9	818.3	180.5	172.7	154.0	200.7	270.7	242.7	160.2	124.5	119.8
80°	636.3	247.3	122.9	113.6	99.6	149.3	214.7	192.9	115.1	80.9	79.3
82.5°	255.1	104.2	71.6	63.8	54.4	102.7	169.6	155.6	85.6	51.3	51.3
85°	82.4	34.2	26.4	20.2	24.9	63.8	101.1	105.8	60.7	26.4	20.2
87.5°	10.9	4.7	4.7	6.2	4.7	10.9	31.1	29.6	17.1	3.1	0.0
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)