

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: P533496

Luminaire Tested: **GALN-SA8D-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42322 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 493
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

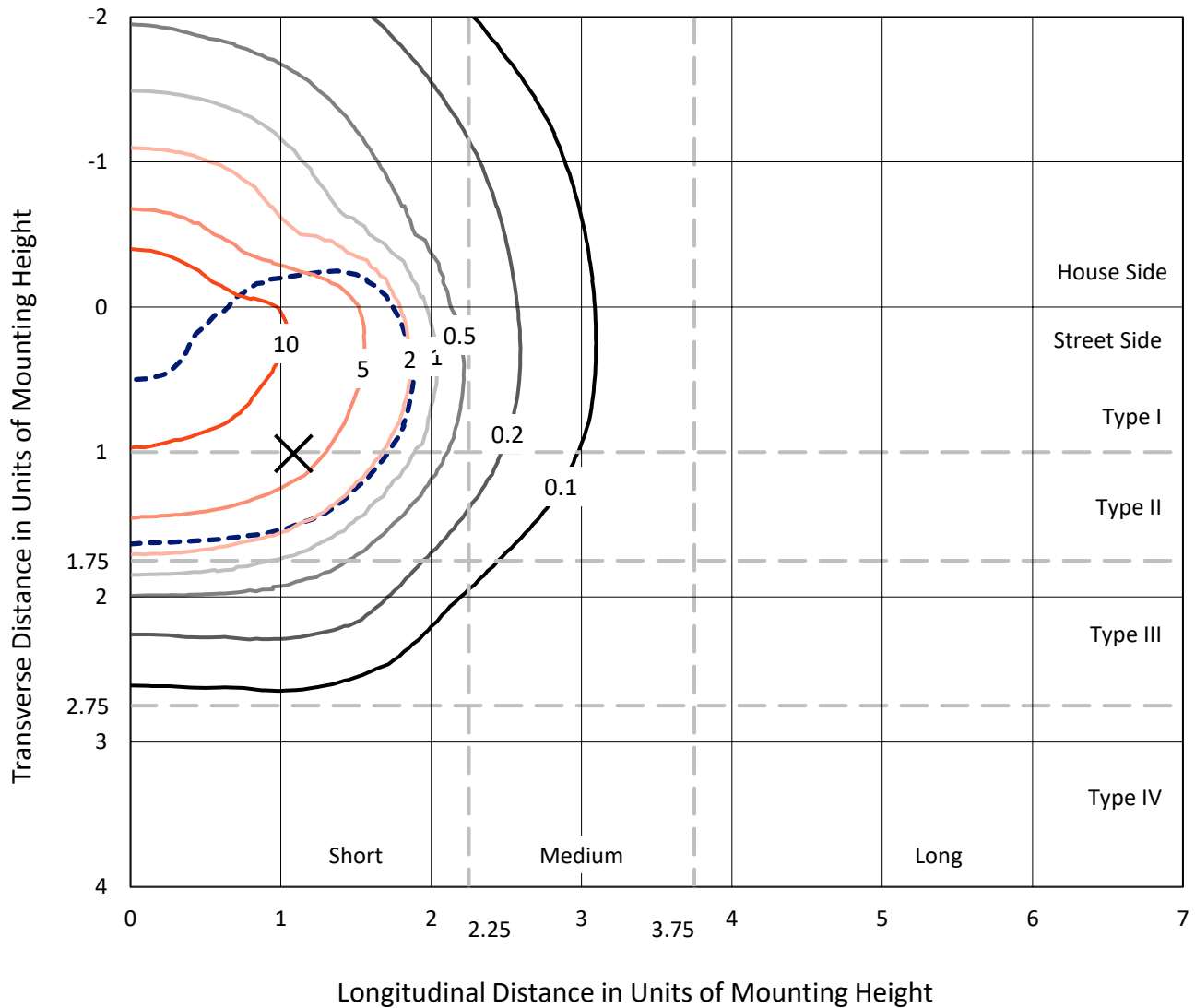


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

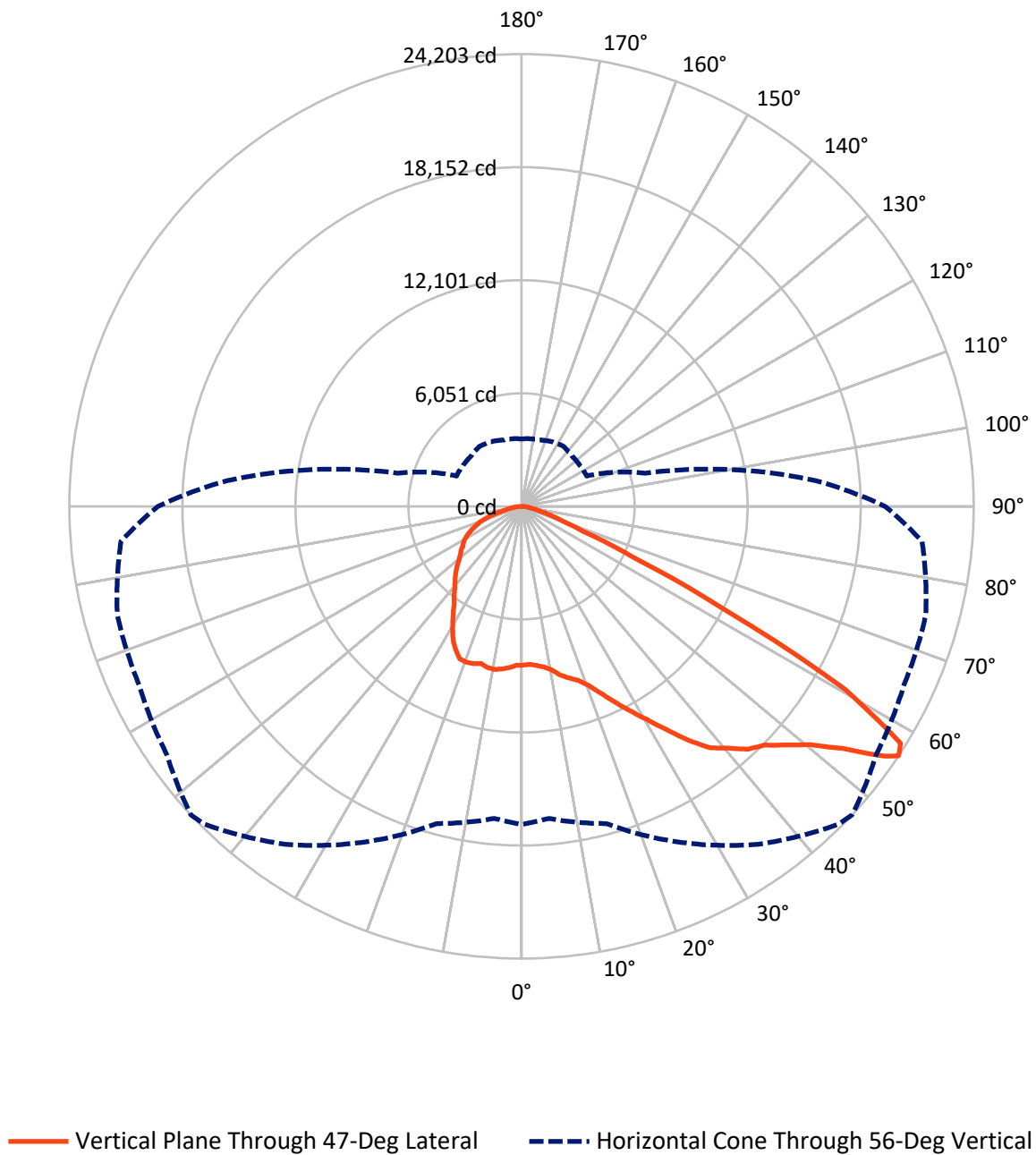


Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13411.3	0.0	13411.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	28910.7	0.0	28910.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	42322.0	0.0	42322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.3	2.0
10°-20°	2613.0	6.2
20°-30°	4619.1	10.9
30°-40°	6937.7	16.4
40°-50°	9521.3	22.5
50°-60°	11343.4	26.8
60°-70°	4854.3	11.5
70°-80°	1373.8	3.2
80°-90°	231.2	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°	42322.0	100.0
0°-180°	42322.0	100.0

Coefficient of Utilization



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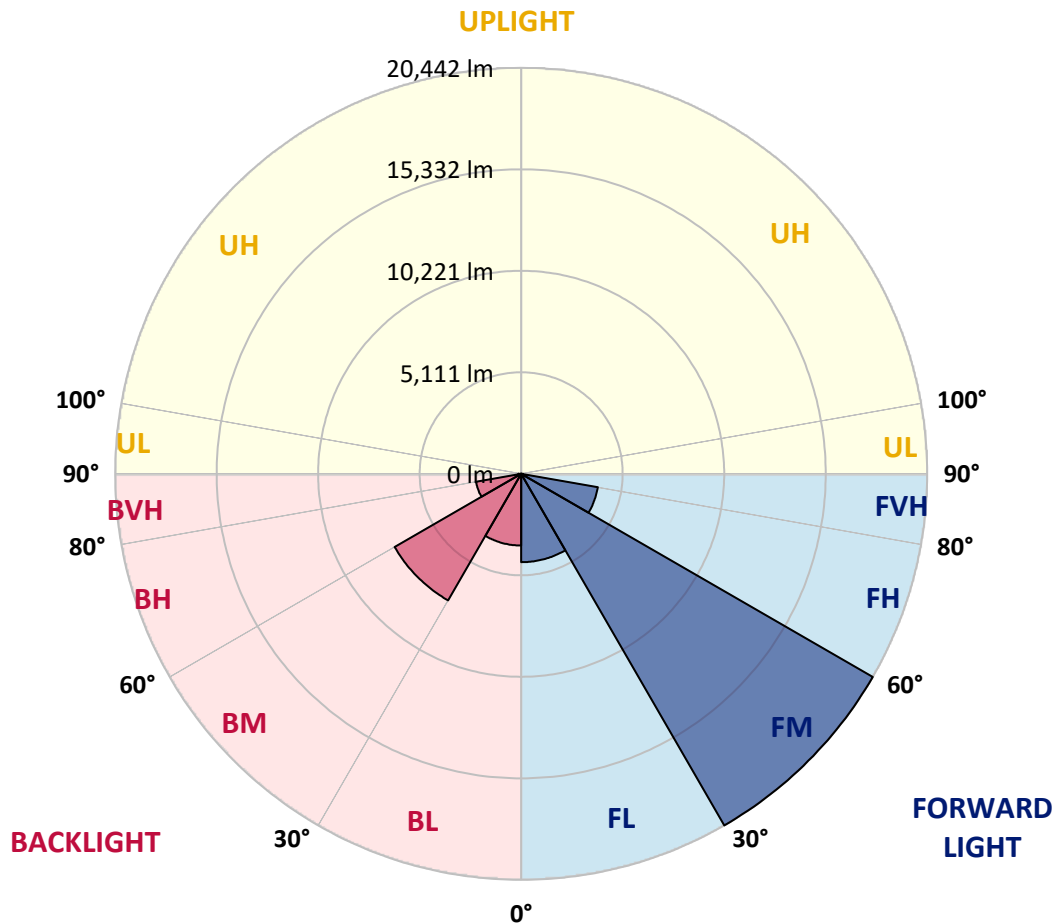
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4449.5	10.5			
FM	(30°-60°)	20442.5	48.3			
FH	(60°-80°)	3920.6	9.3			G2/5000
FVH	(80°-90°)	98.1	0.2			G1/100
BL	(0°-30°)	3610.9	8.5	B4/5000		
BM	(30°-60°)	7359.9	17.4	B4/8500		
BH	(60°-80°)	2307.5	5.5	B3/2500		G3/2500
BVH	(80°-90°)	133.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2
2.5°	8468.8	8452.6	8441.8	8528.2	8495.8	8501.2	8468.8	8501.2	8522.8	8474.2	8544.4
5°	8452.6	8501.2	8458.0	8485.0	8555.2	8533.6	8555.2	8620.0	8603.8	8587.6	8566.0
7.5°	8603.8	8609.2	8641.5	8652.3	8673.9	8652.3	8684.7	8744.1	8727.9	8636.1	8646.9
10°	8819.7	8830.5	8835.9	8895.2	8933.0	8938.4	8900.6	8846.6	8841.3	8965.4	8879.0
12.5°	9068.0	9041.0	9105.7	9127.3	9170.5	9219.1	9267.7	9154.3	9224.5	9229.9	9127.3
15°	9429.6	9456.6	9381.0	9381.0	9397.2	9402.6	9537.5	9483.6	9472.8	9413.4	9456.6
17.5°	9969.3	9785.8	9780.4	9704.9	9694.1	9737.3	9785.8	9829.0	9974.7	9856.0	9623.9
20°	10363.4	10406.6	10250.0	10158.3	10174.5	10271.6	10223.0	10417.3	10519.9	10325.6	10098.9
22.5°	11059.7	10913.9	10951.7	10746.6	10762.8	10865.3	10860.0	11059.7	11119.0	10811.4	10482.1
25°	11529.3	11491.5	11523.9	11361.9	11383.5	11464.5	11594.0	11923.3	11826.1	11486.1	10725.0
27.5°	12214.7	12139.2	12112.2	12052.8	12031.2	12247.1	12398.3	12749.1	12678.9	12182.4	11156.8
30°	12916.4	12867.9	12894.8	12652.0	12738.3	13197.1	13240.3	13720.7	13688.3	12813.9	11637.2
32.5°	13402.2	13429.2	13477.8	13342.8	13726.1	14093.1	14238.8	14784.0	14811.0	13898.8	12565.6
35°	14184.9	14093.1	14120.1	14276.6	14454.7	15124.0	15361.5	15723.2	15949.9	15037.7	13456.2
37.5°	14676.0	14773.2	14659.9	14908.1	15372.3	16176.6	16392.5	16764.9	17002.4	16160.4	14670.6
40°	15442.5	15286.0	15366.9	15545.1	16020.0	17067.2	17007.8	17391.0	17466.6	17115.8	15804.1
42.5°	16268.3	16192.8	16079.4	16484.2	16883.7	17644.7	17763.5	17585.3	17968.6	18049.5	17423.4
45°	17256.1	17347.9	17364.0	17374.8	17725.7	18389.6	18227.7	18071.1	18513.7	19102.1	18427.4
47.5°	18173.7	17882.2	18092.7	18384.2	18880.8	18886.2	19075.1	18702.6	19172.2	19695.8	19334.2
50°	18481.3	18341.0	18621.7	19172.2	19938.7	20019.7	20041.3	19512.3	19755.2	20170.8	19647.2
52.5°	18362.6	18314.0	19031.9	19884.7	21007.4	21417.6	21525.6	20872.5	21007.4	20818.5	20338.1
55°	17795.9	17941.6	18664.9	20402.9	22124.7	23393.2	23598.3	22772.4	21914.2	22059.9	21531.0
56°	17018.6	16764.9	17574.6	19814.6	22076.1	24035.5	24202.8	23171.9	22588.9	22400.0	21520.2
57.5°	14438.6	14109.3	15172.6	17828.2	20850.9	23792.6	23916.7	23339.2	22475.6	22092.3	19949.5
60°	8452.6	8614.6	9964.0	12295.7	16084.8	19506.9	19922.5	20343.5	19766.0	18049.5	14848.8
62.5°	4080.6	3978.0	4944.2	7049.3	9802.0	12452.2	12328.1	13510.2	14157.9	12824.7	9375.6
65°	2137.4	2126.7	2698.8	3848.5	5386.8	6541.9	6655.2	7292.1	8182.7	6606.6	4760.7
67.5°	1570.7	1613.9	1900.0	2704.2	3465.3	3535.4	3519.2	3837.7	3924.0	3319.5	2925.5
70°	1230.7	1252.2	1462.7	2056.5	2580.0	2310.2	2261.6	2299.4	2553.1	2661.0	2531.5
72.5°	890.6	912.2	1090.3	1387.2	1613.9	1576.1	1608.5	1819.0	2132.0	2245.4	2110.5
75°	593.7	609.9	707.1	847.4	955.4	1030.9	1090.3	1333.2	1624.7	1689.4	1624.7
77.5°	410.2	426.4	491.2	599.1	609.9	658.5	680.1	793.4	971.6	1052.5	1009.3
80°	232.1	232.1	264.5	307.7	377.8	442.6	453.4	545.2	626.1	680.1	690.9
82.5°	108.0	113.3	140.3	188.9	248.3	307.7	318.5	377.8	437.2	491.2	507.4
85°	54.0	59.4	81.0	113.3	151.1	183.5	178.1	183.5	194.3	183.5	188.9
87.5°	16.2	16.2	21.6	27.0	21.6	27.0	27.0	32.4	37.8	43.2	48.6
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°	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2	8501.2
2.5°	8549.8	8566.0	8458.0	8560.6	8522.8	8517.4	8593.0	8582.2	8609.2	8598.4	8533.6
5°	8555.2	8517.4	8630.7	8528.2	8576.8	8679.3	8609.2	8771.1	8690.1	8744.1	8625.3
7.5°	8722.5	8733.3	8711.7	8754.9	8733.3	8781.9	8744.1	8781.9	8717.1	8722.5	8830.5
10°	8868.2	8835.9	8873.6	8819.7	8857.4	8841.3	8754.9	8727.9	8749.5	8722.5	8792.7
12.5°	9138.1	9078.7	9051.8	8987.0	8943.8	8781.9	8646.9	8571.4	8673.9	8690.1	8657.7
15°	9413.4	9418.8	9294.6	9148.9	8879.0	8636.1	8668.5	8695.5	8695.5	8738.7	8657.7
17.5°	9586.1	9586.1	9472.8	9181.3	8906.0	8765.7	8733.3	8646.9	8571.4	8560.6	8555.2
20°	9888.4	9796.6	9537.5	9175.9	8895.2	8830.5	8587.6	8382.5	8225.9	8172.0	8166.6
22.5°	10233.8	10001.7	9640.1	9186.7	8879.0	8787.3	8333.9	8026.2	7745.5	7626.8	7643.0
25°	10552.3	10179.9	9699.5	9138.1	8819.7	8377.1	7869.7	7443.3	7151.8	7054.6	7006.1
27.5°	10773.6	10368.8	9699.5	9181.3	8598.4	7918.3	7400.1	6854.9	6601.3	6536.5	6547.3
30°	11070.5	10606.3	9866.8	9089.5	8155.8	7324.5	6703.8	6347.6	6196.4	6142.5	6180.2
32.5°	11766.7	11227.0	10098.9	8868.2	7632.2	6730.8	6228.8	6029.1	5807.8	5699.9	5662.1
35°	12522.4	11815.3	10325.6	8495.8	7043.9	6191.0	5878.0	5694.5	5430.0	5311.2	5332.8
37.5°	13591.1	12571.0	10341.8	7880.5	6406.9	5888.8	5602.7	5316.6	5100.7	4917.2	4863.2
40°	15032.3	13601.9	10304.0	7232.8	5894.2	5532.5	5322.0	4965.8	4722.9	4593.3	4620.3
42.5°	16300.7	14811.0	10147.5	6498.7	5430.0	5289.6	5052.1	4701.3	4463.8	4328.9	4318.1
45°	17369.4	15701.6	9850.6	5872.6	5041.3	5019.8	4744.5	4474.6	4285.7	4161.5	4215.5
47.5°	18357.2	16419.5	9402.6	5246.5	4685.1	4728.3	4463.8	4296.5	4177.7	4064.4	4059.0
50°	18713.4	16408.7	9008.6	4728.3	4399.0	4377.4	4366.7	4188.5	4064.4	3967.2	4010.4
52.5°	19307.2	16592.2	8582.2	4372.0	4140.0	4145.3	4183.1	4053.6	3913.3	3853.9	3907.9
55°	20160.0	16619.2	7643.0	3956.4	3924.0	3961.8	3961.8	3875.5	3756.7	3708.1	3681.2
56°	19463.7	15814.9	6854.9	3848.5	3816.1	3816.1	3918.7	3821.5	3675.8	3638.0	3605.6
57.5°	17952.4	13855.6	5737.6	3718.9	3670.4	3745.9	3799.9	3697.3	3562.4	3508.4	3540.8
60°	12382.1	9375.6	4312.7	3438.3	3438.3	3562.4	3605.6	3454.5	3395.1	3389.7	3346.5
62.5°	7227.4	5462.4	3373.5	3184.6	3195.4	3297.9	3330.3	3244.0	3168.4	3260.1	3303.3
65°	3832.3	3260.1	2893.1	2914.7	2920.1	3001.1	3141.4	3136.0	3130.6	3157.6	3163.0
67.5°	2774.4	2709.6	2628.6	2607.0	2617.8	2677.2	2817.5	2925.5	2920.1	2855.3	2806.7
70°	2472.1	2380.3	2331.8	2337.2	2294.0	2364.1	2477.5	2547.7	2423.5	2348.0	2315.6
72.5°	2056.5	2029.5	1997.1	2002.5	1916.1	1900.0	1770.4	1770.4	1738.0	1716.4	1754.2
75°	1570.7	1559.9	1576.1	1549.1	1457.3	1360.2	1284.6	1214.5	1106.5	1063.3	1041.7
77.5°	993.2	1025.5	1063.3	1004.0	966.2	896.0	820.4	750.3	663.9	615.3	615.3
80°	674.7	701.7	728.7	717.9	674.7	609.9	550.6	475.0	415.6	377.8	372.4
82.5°	512.8	534.4	572.1	529.0	485.8	431.8	383.2	329.3	275.3	232.1	232.1
85°	183.5	210.5	232.1	253.7	269.9	275.3	237.5	194.3	156.5	124.1	118.7
87.5°	48.6	54.0	59.4	54.0	54.0	54.0	59.4	54.0	48.6	37.8	37.8
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)