

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: P531613

Luminaire Tested: **GALN-SA6D-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21318 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 368
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



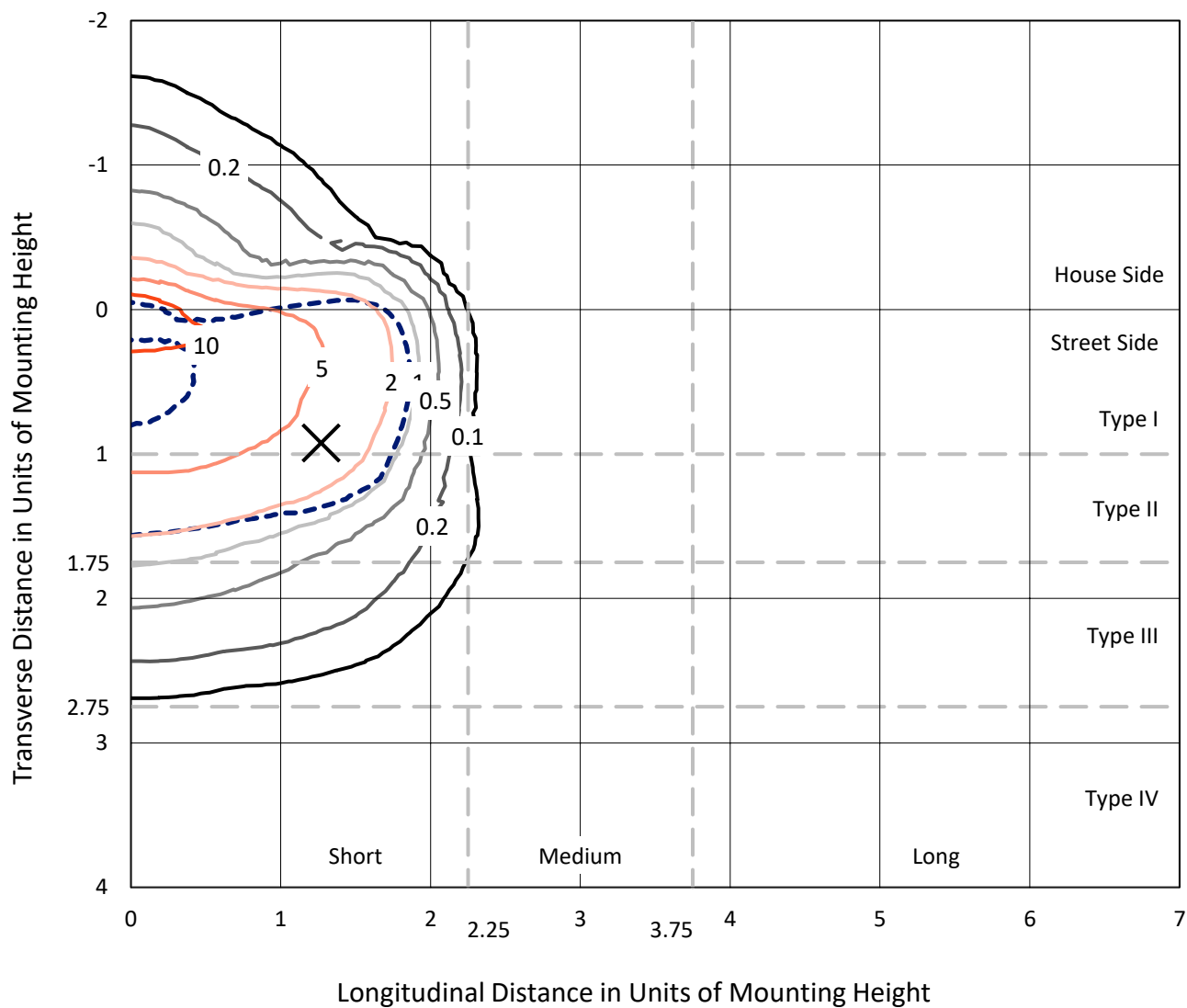
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

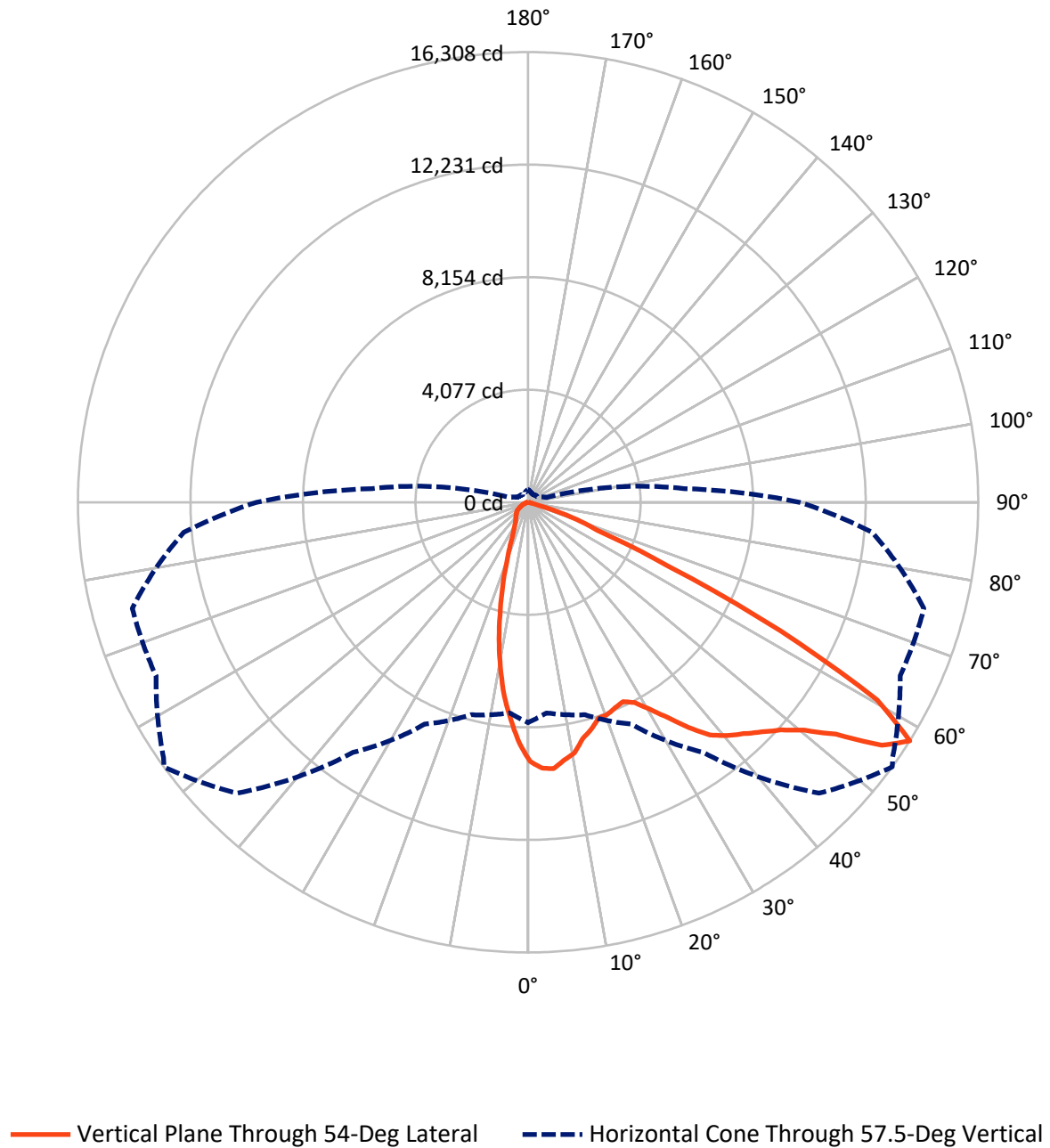


Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3012.6	0.0	3012.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	18305.4	0.0	18305.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	21318.0	0.0	21318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.9	3.7
10°-20°	1677.8	7.9
20°-30°	2223.4	10.4
30°-40°	3231.2	15.2
40°-50°	4791.4	22.5
50°-60°	5991.5	28.1
60°-70°	2363.4	11.1
70°-80°	235.3	1.1
80°-90°	18.3	0.1
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°	21318.0	100.0
0°-180°	21318.0	100.0

Coefficient of Utilization



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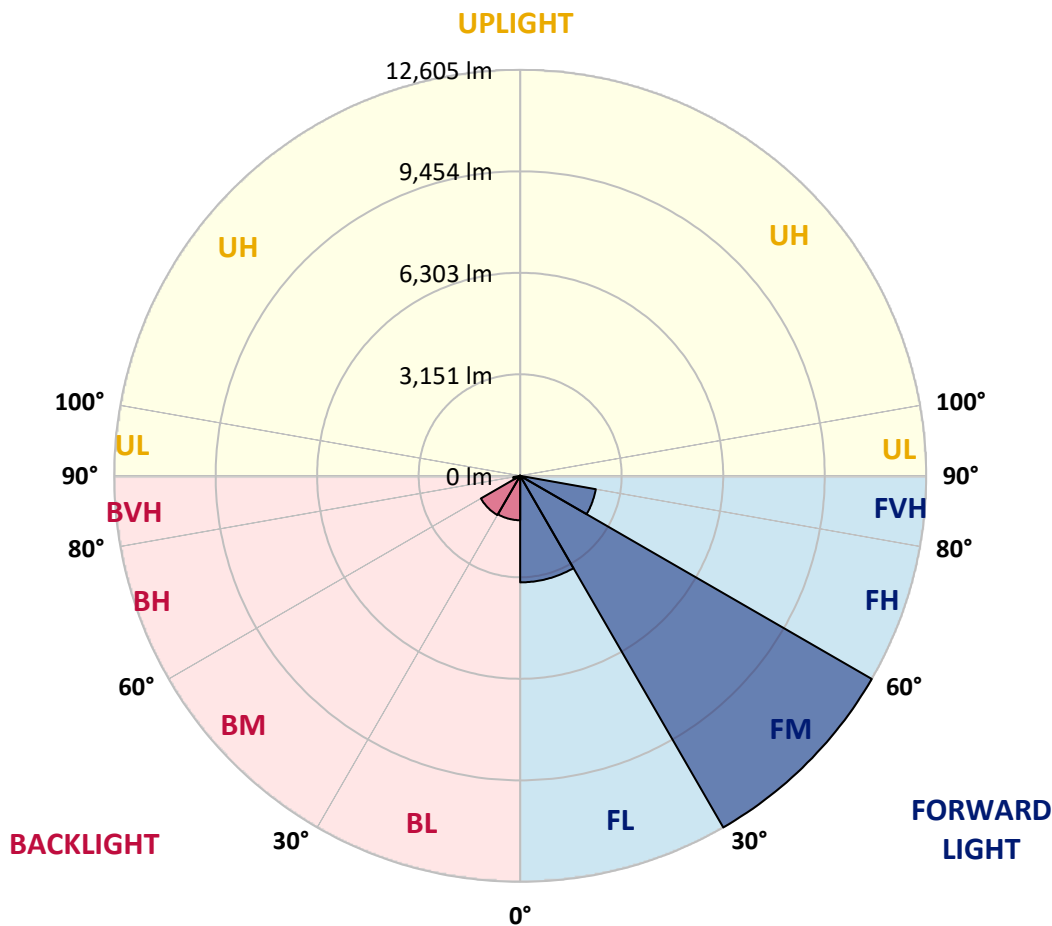
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3309.2	15.5			
FM	(30°-60°)	12605.3	59.1			
FH	(60°-80°)	2382.6	11.2			G2/5000
FVH	(80°-90°)	8.3	0.0			G0/10
BL	(0°-30°)	1377.8	6.5	B3/2500		
BM	(30°-60°)	1408.8	6.6	B2/2500		
BH	(60°-80°)	216.0	1.0	B1/500		G1/500
BVH	(80°-90°)	10.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9
2.5°	9937.9	9834.8	9842.8	9807.1	9759.5	9795.2	9640.6	9676.3	9672.3	9462.2	9323.5
5°	9688.2	9799.2	9684.2	9779.3	9688.2	9787.3	9692.1	9620.8	9505.8	9351.2	9093.6
7.5°	9264.0	9157.0	9188.7	9307.6	9327.4	9549.4	9430.5	9521.7	9474.1	9168.9	8816.1
10°	8411.7	8388.0	8546.5	8705.1	8899.3	9137.2	9228.3	9176.8	9141.1	9026.2	8554.4
12.5°	7757.7	7825.1	7821.1	8082.7	8411.7	8546.5	8784.4	8776.4	8974.6	8760.6	8308.7
15°	7135.3	7171.0	7337.5	7500.0	7864.7	8249.2	8542.6	8582.2	8820.0	8669.4	8118.4
17.5°	6754.8	6703.2	6834.0	7028.3	7400.9	7904.3	8229.4	8324.5	8649.6	8617.9	7900.4
20°	6378.2	6378.2	6485.2	6715.1	7056.0	7622.9	8201.6	8173.9	8649.6	8558.4	7666.5
22.5°	6251.3	6314.8	6342.5	6516.9	6921.3	7408.8	8082.7	8134.3	8717.0	8530.7	7563.4
25°	6425.7	6342.5	6350.4	6489.2	6869.7	7305.8	7995.5	8110.5	8839.9	8669.4	7480.2
27.5°	6453.5	6536.7	6560.5	6655.7	6909.4	7337.5	8213.5	8447.4	9145.1	8994.5	7504.0
30°	6695.3	6778.5	6774.6	6937.1	7111.5	7595.1	8701.1	8748.7	9775.4	9402.8	7650.6
32.5°	6988.6	7075.9	7103.6	7293.9	7432.6	8066.9	9295.7	9418.6	10381.9	10044.9	8035.2
35°	7353.3	7321.6	7448.5	7638.7	7936.1	8756.6	10021.2	10227.3	11036.0	10877.4	8431.6
37.5°	7809.2	7769.6	7892.5	8201.6	8606.0	9573.2	10691.1	10825.9	11511.6	11650.4	9164.9
40°	8130.3	8146.2	8518.8	8935.0	9363.1	10350.2	11115.2	11246.0	11844.6	12371.8	9719.9
42.5°	8665.4	8764.5	9212.5	9719.9	10167.8	10932.9	11460.1	11587.0	11999.2	12950.6	10469.1
45°	9442.4	9398.8	9894.3	10461.2	10956.7	11539.4	11868.4	11824.8	12090.4	13525.4	10940.8
47.5°	10441.3	10449.3	10778.3	11261.9	11777.2	12066.6	12324.3	12169.7	12280.7	14131.9	11571.1
50°	11123.2	11182.6	11448.2	11943.7	12201.4	12645.4	12974.4	12879.2	12843.6	14496.6	11967.5
52.5°	11297.6	11476.0	11618.7	12237.1	12839.6	13541.2	13961.4	14163.6	13529.3	14619.5	12470.9
55°	9981.5	10140.1	10643.5	11491.8	13081.4	14960.4	15539.1	15543.1	14425.2	15166.5	12823.7
57.5°	7979.7	7658.6	7967.8	8867.6	11059.7	14900.9	16308.2	16121.8	14873.2	14845.4	12518.5
60°	5518.0	5438.7	5458.5	5815.3	7654.6	11852.5	14532.3	14774.1	13695.8	12867.3	9910.2
62.5°	4372.4	4305.0	4217.8	4178.1	4752.9	7385.0	10251.1	10592.0	9577.2	8344.4	5874.7
65°	3425.0	3385.3	3397.2	3555.8	3551.8	4190.0	5605.2	5466.4	4376.3	3234.7	1847.3
67.5°	2311.0	2370.5	2418.1	2897.7	3143.5	2917.6	2707.5	2628.2	1423.1	598.6	408.3
70°	1300.2	1308.1	1359.7	1811.6	2386.4	2263.5	1867.1	1867.1	709.6	218.0	233.9
72.5°	709.6	685.8	638.2	780.9	1062.4	1078.2	832.5	725.4	210.1	142.7	130.8
75°	344.9	340.9	293.3	241.8	229.9	190.3	146.7	134.8	95.1	91.2	79.3
77.5°	71.4	67.4	35.7	35.7	39.6	43.6	55.5	55.5	67.4	67.4	55.5
80°	0.0	0.0	4.0	15.9	27.7	39.6	47.6	47.6	55.5	55.5	43.6
82.5°	0.0	0.0	4.0	11.9	23.8	35.7	43.6	47.6	55.5	59.5	47.6
85°	0.0	0.0	0.0	7.9	19.8	27.7	23.8	23.8	19.8	15.9	7.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9	9390.9
2.5°	9252.1	9244.2	9061.8	8958.8	8772.5	8609.9	8479.1	8384.0	8384.0	8324.5	8269.0
5°	8990.5	8923.1	8534.6	8284.9	7932.1	7670.5	7492.1	7353.3	7135.3	7194.8	6960.9
7.5°	8665.4	8495.0	7979.7	7599.1	7111.5	6738.9	6358.4	6021.4	5696.4	5549.7	5629.0
10°	8316.6	8019.3	7325.6	6723.1	6116.5	5434.7	4990.8	4451.6	4118.7	4098.8	4011.6
12.5°	7947.9	7611.0	6766.7	5934.2	5137.4	4316.9	3639.0	3135.6	2909.6	2659.9	2707.5
15°	7670.5	7171.0	6144.3	5141.4	4083.0	3254.5	2572.7	2184.2	1970.1	1910.7	1890.9
17.5°	7369.2	6834.0	5510.0	4297.0	3203.0	2342.8	1851.2	1664.9	1581.7	1581.7	1569.8
20°	7056.0	6453.5	4879.8	3512.2	2402.2	1748.2	1482.6	1423.1	1419.1	1415.2	1415.2
22.5°	6849.9	6017.4	4308.9	2790.7	1811.6	1399.3	1288.3	1264.5	1280.4	1328.0	1328.0
25°	6631.9	5597.3	3678.7	2152.5	1403.3	1201.1	1137.7	1153.5	1193.2	1236.8	1220.9
27.5°	6409.9	5323.7	3084.0	1688.7	1149.6	1050.5	1026.7	1062.4	1106.0	1145.6	1133.7
30°	6358.4	5030.4	2521.1	1280.4	987.1	915.7	931.6	963.3	1006.9	1022.7	1038.6
32.5°	6437.6	4800.5	2065.3	1050.5	860.2	840.4	840.4	856.2	884.0	919.7	907.8
35°	6663.6	4669.7	1633.2	911.7	788.8	769.0	765.1	780.9	796.8	808.7	796.8
37.5°	7008.5	4566.6	1335.9	808.7	741.3	709.6	701.6	697.7	713.5	717.5	725.4
40°	7448.5	4622.1	1133.7	745.2	693.7	658.0	634.3	634.3	634.3	646.1	650.1
42.5°	7924.2	4697.4	979.1	709.6	650.1	606.5	582.7	574.8	582.7	598.6	594.6
45°	8423.6	4844.1	880.0	654.1	610.5	555.0	523.3	515.3	535.1	566.9	562.9
47.5°	8891.4	5054.2	804.7	618.4	570.8	519.3	479.7	471.7	507.4	551.0	555.0
50°	9359.2	5418.9	777.0	590.6	543.1	483.6	447.9	440.0	479.7	535.1	547.0
52.5°	9898.3	5811.3	757.1	555.0	511.4	455.9	416.2	408.3	451.9	523.3	527.2
55°	10251.1	6144.3	741.3	491.5	451.9	412.3	380.6	376.6	424.2	487.6	503.4
57.5°	9838.8	5680.5	685.8	428.1	384.5	364.7	336.9	336.9	376.6	436.0	447.9
60°	7460.4	3738.1	487.6	344.9	325.1	313.2	301.3	301.3	333.0	376.6	380.6
62.5°	4368.4	2013.7	313.2	277.5	277.5	265.6	245.8	245.8	277.5	301.3	305.2
65°	1296.2	646.1	253.7	237.8	233.9	214.1	194.2	190.3	214.1	226.0	222.0
67.5°	372.6	297.3	210.1	198.2	194.2	162.5	150.6	146.7	150.6	142.7	138.7
70°	222.0	202.2	162.5	166.5	146.7	118.9	107.0	103.1	95.1	83.2	75.3
72.5°	122.9	122.9	118.9	126.9	103.1	79.3	67.4	55.5	43.6	35.7	31.7
75°	75.3	79.3	83.2	87.2	67.4	51.5	43.6	27.7	15.9	7.9	7.9
77.5°	51.5	55.5	59.5	63.4	55.5	47.6	35.7	19.8	4.0	0.0	0.0
80°	39.6	43.6	51.5	55.5	59.5	63.4	47.6	19.8	4.0	0.0	0.0
82.5°	43.6	47.6	59.5	55.5	55.5	55.5	43.6	19.8	4.0	0.0	0.0
85°	7.9	11.9	19.8	19.8	27.7	35.7	27.7	7.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)