

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: P533951

Luminaire Tested: **GALN-SA9B-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23926 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 364
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

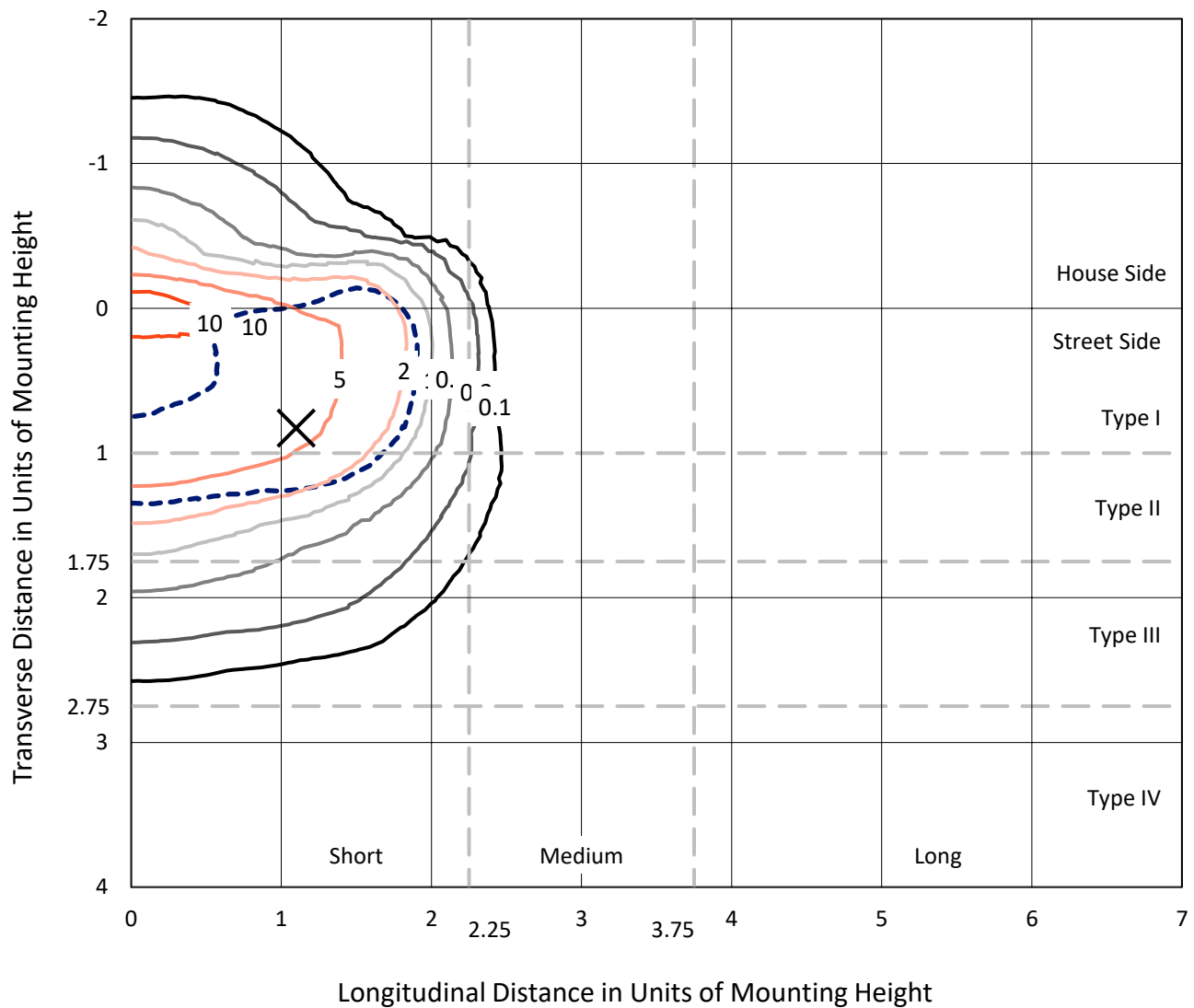


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

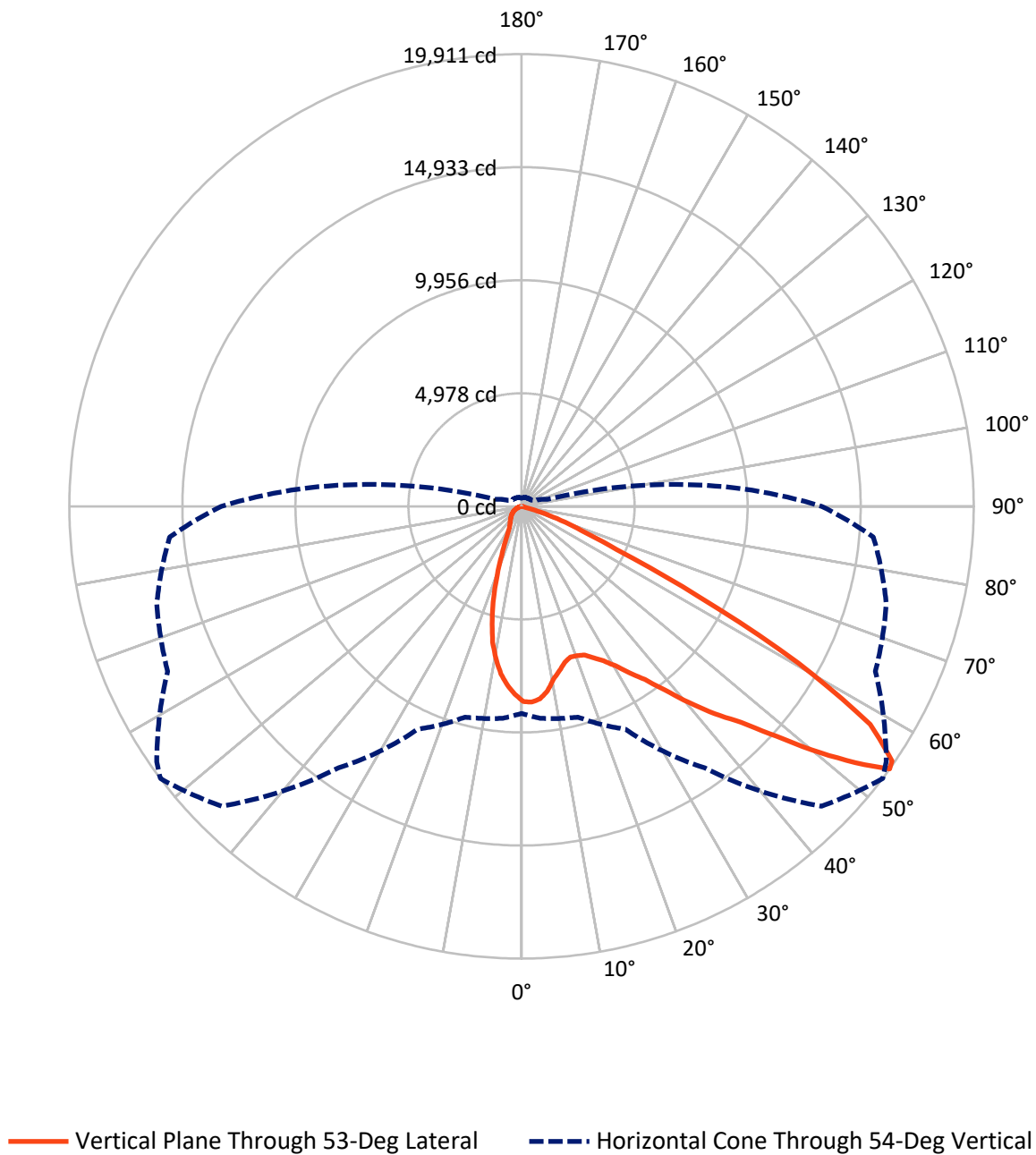


Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3958.6	0.0	3958.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	19967.4	0.0	19967.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	23926.0	0.0	23926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.3	3.1
10°-20°	1690.5	7.1
20°-30°	2402.5	10.0
30°-40°	3707.7	15.5
40°-50°	5813.3	24.3
50°-60°	6753.0	28.2
60°-70°	2551.7	10.7
70°-80°	242.6	1.0
80°-90°	27.3	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°	23926.0	100.0
0°-180°	23926.0	100.0

Coefficient of Utilization



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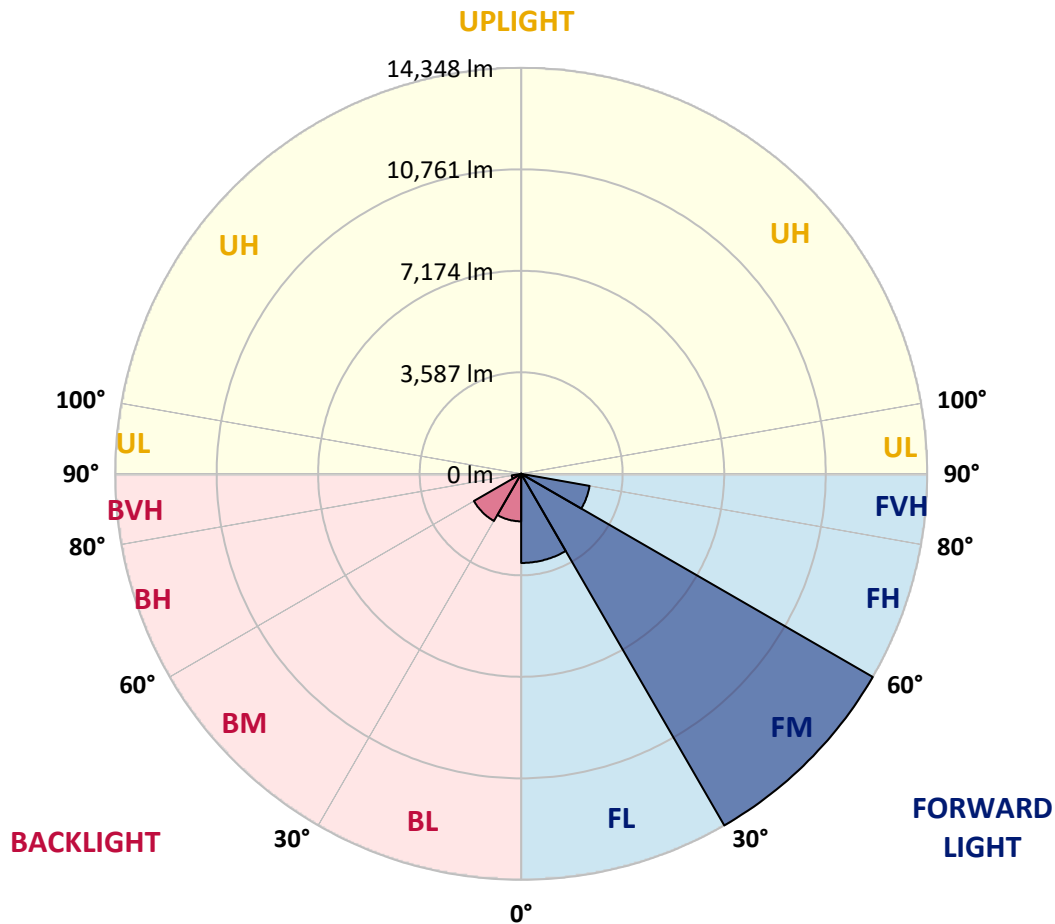
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3150.4	13.2			
FM	(30°-60°)	14347.7	60.0			
FH	(60°-80°)	2455.2	10.3			G2/5000
FVH	(80°-90°)	14.1	0.1			G1/100
BL	(0°-30°)	1679.9	7.0	B3/2500		
BM	(30°-60°)	1926.4	8.1	B2/2500		
BH	(60°-80°)	339.2	1.4	B1/500		G1/500
BVH	(80°-90°)	13.2	0.1			G1/100
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°	53°	55°	65°	75°	85°
0°	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8
2.5°	8549.2	8473.5	8549.2	8558.2	8611.6	8660.7	8629.5	8700.8	8660.7	8616.1	8602.7
5°	7858.3	7960.9	7965.3	8125.8	8090.1	8384.3	8513.6	8477.9	8696.3	8683.0	8651.8
7.5°	7238.8	7198.7	7252.1	7439.4	7675.6	8014.4	8201.6	8197.1	8509.1	8732.0	8709.7
10°	6663.8	6659.3	6770.8	6917.8	7118.4	7475.0	7733.5	7862.8	8348.7	8687.4	8736.5
12.5°	6276.0	6258.2	6378.5	6498.9	6815.3	7091.7	7421.5	7483.9	8041.1	8531.4	8611.6
15°	6021.9	6062.0	6070.9	6302.7	6503.3	6868.8	7127.3	7256.6	7898.5	8406.6	8714.2
17.5°	5977.3	6030.8	6035.3	6227.0	6440.9	6748.5	6975.8	7149.6	7778.1	8469.0	8718.6
20°	6066.5	6035.3	6062.0	6182.4	6391.9	6686.1	7015.9	7073.9	7738.0	8500.2	8767.7
22.5°	6320.6	6311.6	6244.8	6342.8	6489.9	6797.5	7109.5	7198.7	7853.9	8660.7	8807.8
25°	6601.4	6650.4	6588.0	6574.6	6677.1	6980.2	7394.8	7510.7	8241.7	8950.4	8932.6
27.5°	7127.3	7078.3	7078.3	7015.9	6989.2	7136.3	7702.3	7894.0	8674.0	9324.8	9075.2
30°	7631.0	7684.5	7644.4	7666.7	7488.4	7475.0	8139.2	8375.4	9440.7	9895.4	9378.3
32.5°	8428.9	8357.6	8424.4	8366.5	8130.2	7889.6	8732.0	8977.1	10367.9	10550.6	9833.0
35°	9093.0	9061.8	9347.1	9338.2	8954.9	8718.6	9360.5	9726.0	11014.2	11335.1	10367.9
37.5°	10038.0	9980.1	10305.4	10461.5	10118.2	9766.1	10260.9	10684.3	11615.9	11963.6	10916.1
40°	11009.7	11156.8	11593.6	11852.2	11486.7	11018.6	11361.8	11491.1	12017.1	12373.7	11290.5
42.5°	12239.9	12453.9	12899.6	13122.5	13091.3	12583.2	12480.6	12476.2	12306.8	12257.8	11566.9
45°	13421.2	13340.9	14027.4	14513.2	14905.5	14758.4	13559.3	13425.6	12765.9	12431.6	11638.2
47.5°	13938.2	13911.5	14379.5	15244.2	16581.4	16764.2	15128.3	14611.3	13541.5	13162.6	12026.0
50°	13269.6	13407.8	13871.3	14829.7	16880.1	18275.2	17053.9	16358.6	14446.3	14054.1	12944.2
52.5°	11085.5	11179.1	11620.4	12837.2	15863.8	19166.7	18899.3	18498.1	16108.9	15458.2	14544.4
54°	9115.3	9364.9	9605.6	10827.0	14054.1	18671.9	19911.1	19603.5	17192.1	16626.0	15551.8
55°	7938.6	8085.7	8259.5	9476.4	12801.6	17834.0	19795.2	19821.9	17918.6	16991.5	16229.3
57.5°	5799.0	5901.6	5723.3	6262.6	8789.9	14482.0	18105.9	18827.9	18899.3	17539.8	16643.8
60°	4430.6	4475.2	4274.6	4359.3	5464.7	9939.9	14005.1	14874.3	17049.5	15328.9	14098.7
62.5°	3436.6	3445.5	3441.1	3588.2	3766.5	5848.1	8758.7	9529.9	11754.1	10884.9	9574.4
65°	2531.8	2491.7	2563.0	3008.7	3213.8	3677.3	4613.4	5175.0	6387.4	5393.4	3855.6
67.5°	1640.3	1653.7	1725.0	2237.6	2754.7	2821.5	2839.3	2794.8	2799.2	1542.3	967.3
70°	985.1	1007.4	985.1	1265.9	1970.2	2023.6	1849.8	1805.2	1408.5	365.5	361.0
72.5°	583.9	552.7	494.8	543.8	820.2	980.6	882.6	878.1	552.7	214.0	214.0
75°	245.2	222.9	182.8	164.9	218.4	209.5	209.5	187.2	147.1	142.6	133.7
77.5°	49.0	49.0	35.7	40.1	53.5	62.4	75.8	75.8	89.1	89.1	84.7
80°	0.0	4.5	13.4	26.7	40.1	57.9	66.9	66.9	75.8	75.8	62.4
82.5°	0.0	4.5	13.4	26.7	35.7	53.5	66.9	66.9	75.8	80.2	66.9
85°	0.0	4.5	13.4	22.3	35.7	44.6	44.6	40.1	31.2	26.7	17.8
87.5°	0.0	0.0	4.5	8.9	4.5	8.9	8.9	8.9	8.9	8.9	8.9
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°	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8	8593.8
2.5°	8633.9	8629.5	8522.5	8348.7	8308.5	8161.5	8143.6	8054.5	8103.5	7938.6	7920.8
5°	8562.6	8509.1	8379.9	8268.4	7943.0	7711.3	7528.5	7305.6	7176.4	7198.7	7114.0
7.5°	8665.1	8527.0	8299.6	7911.8	7515.1	7109.5	6891.1	6436.4	6271.5	6026.4	5990.7
10°	8558.2	8455.6	8103.5	7461.6	6913.4	6329.5	5816.9	5313.2	4929.9	4764.9	4729.3
12.5°	8549.2	8370.9	7782.6	7069.4	6276.0	5438.0	4693.6	4065.1	3686.2	3472.3	3423.3
15°	8411.1	8197.1	7421.5	6463.2	5366.7	4323.7	3512.4	2906.2	2616.5	2491.7	2527.3
17.5°	8424.4	8103.5	7060.5	5821.3	4470.7	3173.6	2398.1	2086.1	2010.3	2041.5	2041.5
20°	8411.1	7894.0	6623.7	5081.4	3423.3	2201.9	1760.7	1649.2	1698.3	1796.3	1774.0
22.5°	8339.7	7795.9	6222.5	4301.4	2518.4	1631.4	1413.0	1417.4	1493.2	1613.6	1640.3
25°	8393.2	7577.5	5714.4	3512.4	1836.4	1301.6	1225.8	1257.0	1337.2	1426.4	1444.2
27.5°	8353.1	7421.5	5183.9	2727.9	1341.7	1118.8	1114.3	1150.0	1185.7	1252.5	1252.5
30°	8397.7	7278.9	4662.4	2028.1	1105.4	1025.2	1007.4	1034.1	1069.8	1083.1	1078.7
32.5°	8562.6	7171.9	4060.7	1515.5	976.2	936.0	936.0	936.0	931.6	949.4	953.9
35°	8923.7	7189.7	3530.2	1172.3	891.5	860.3	846.9	829.1	820.2	829.1	833.5
37.5°	9315.9	7180.8	2982.0	998.5	829.1	802.3	771.1	744.4	739.9	748.8	735.5
40°	9489.7	7265.5	2473.8	895.9	771.1	739.9	690.9	668.6	673.1	682.0	673.1
42.5°	9726.0	7292.3	2144.0	815.7	717.6	668.6	637.4	610.7	606.2	619.6	615.1
45°	9721.5	7140.7	1796.3	771.1	668.6	615.1	575.0	552.7	552.7	561.6	566.1
47.5°	10006.8	7118.4	1542.3	731.0	632.9	579.5	530.4	512.6	508.1	508.1	499.2
50°	10671.0	7430.4	1346.1	686.4	588.4	539.3	499.2	476.9	459.1	450.2	445.7
52.5°	11968.0	8402.1	1194.6	632.9	539.3	499.2	463.6	445.7	423.5	401.2	396.7
54°	13225.0	9405.1	1185.7	588.4	499.2	472.5	441.3	432.4	405.6	374.4	365.5
55°	13791.1	9989.0	1216.9	552.7	472.5	454.7	427.9	419.0	392.2	356.6	352.1
57.5°	14259.1	10216.3	1199.0	459.1	427.9	423.5	401.2	387.8	356.6	307.6	298.6
60°	11477.7	7724.6	860.3	405.6	392.2	383.3	365.5	356.6	316.5	263.0	258.5
62.5°	7252.1	4444.0	548.3	356.6	343.2	329.8	307.6	298.6	263.0	209.5	196.1
65°	3089.0	1840.9	370.0	316.5	294.2	271.9	254.1	240.7	209.5	156.0	151.6
67.5°	802.3	655.2	307.6	276.4	245.2	214.0	200.6	178.3	142.6	107.0	102.5
70°	361.0	329.8	258.5	231.8	196.1	164.9	147.1	124.8	93.6	71.3	66.9
72.5°	214.0	209.5	196.1	173.8	147.1	124.8	107.0	84.7	62.4	40.1	40.1
75°	133.7	129.3	133.7	120.3	102.5	93.6	80.2	57.9	35.7	17.8	17.8
77.5°	80.2	80.2	80.2	75.8	71.3	71.3	57.9	35.7	17.8	4.5	4.5
80°	62.4	62.4	66.9	62.4	62.4	62.4	49.0	26.7	8.9	0.0	0.0
82.5°	62.4	66.9	75.8	71.3	62.4	53.5	44.6	26.7	8.9	0.0	0.0
85°	17.8	13.4	22.3	31.2	44.6	40.1	31.2	22.3	8.9	0.0	0.0
87.5°	8.9	8.9	8.9	8.9	4.5	4.5	4.5	4.5	4.5	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)