

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: P652443

Luminaire Tested: **GALN-SA6B-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652443
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-SA6B-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA 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: 16595.5 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

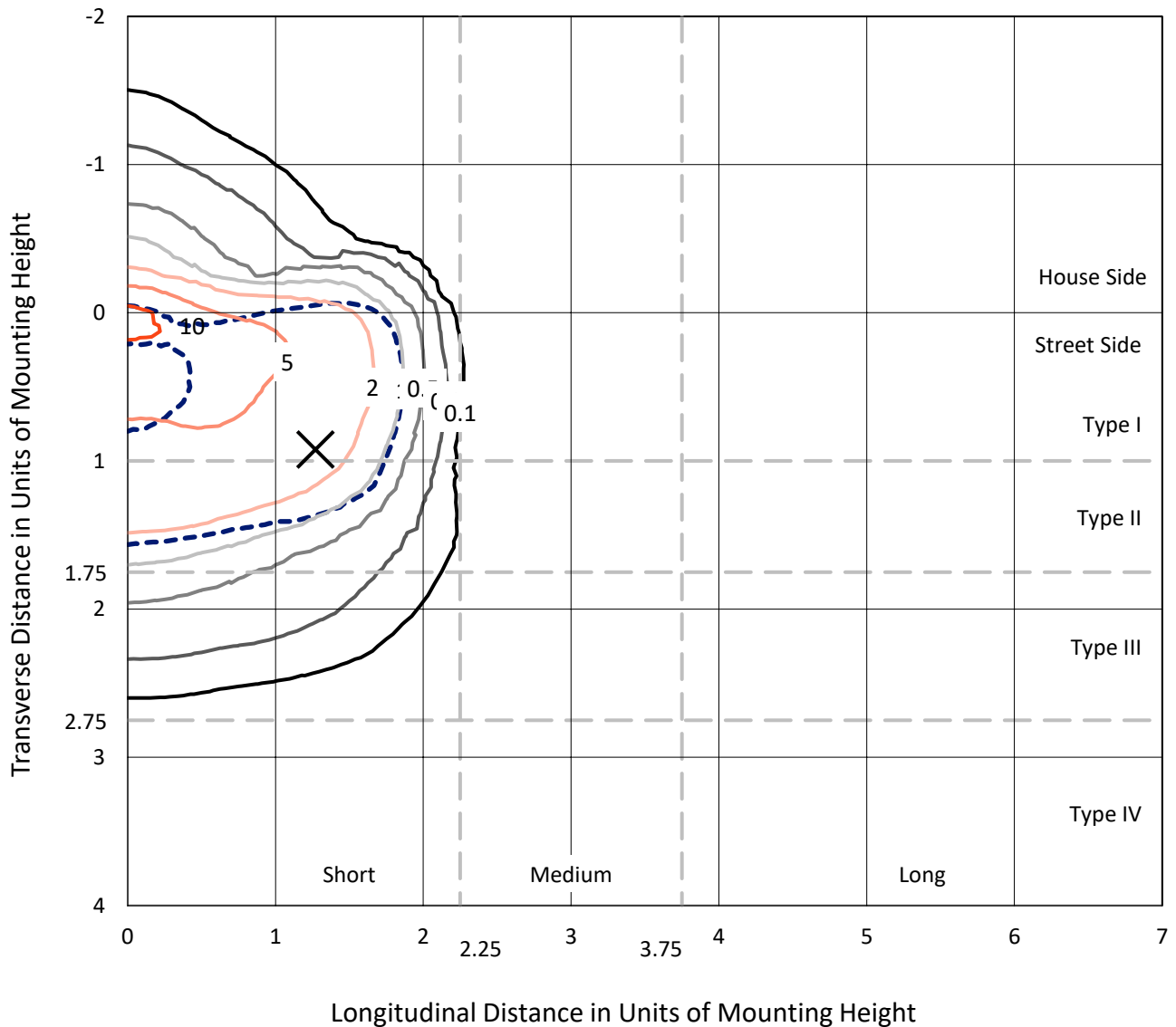
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

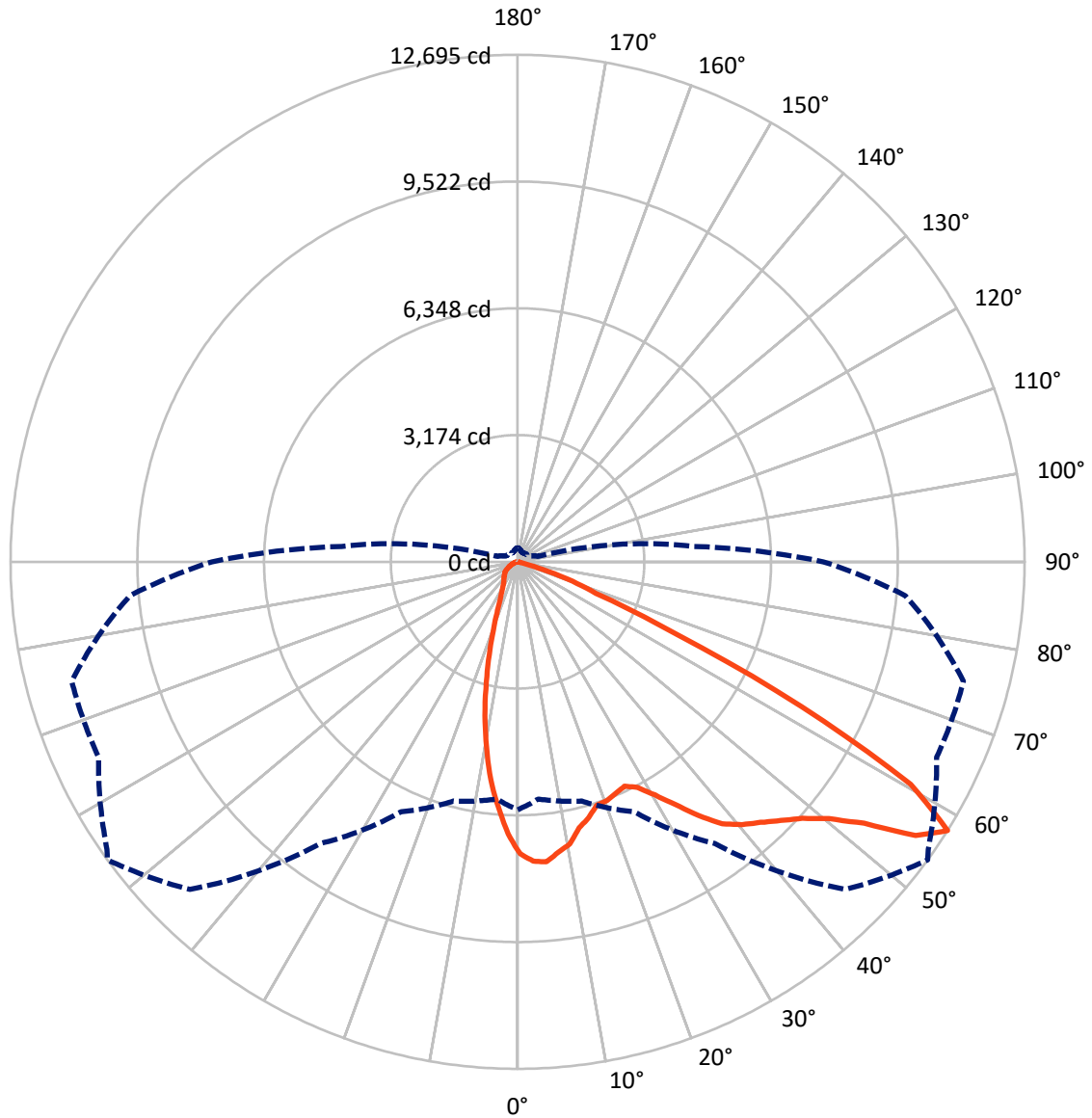
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2345.2	0.0	2345.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14250.2	0.0	14250.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	16595.5	0.0	16595.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.8	3.7
10°-20°	1306.1	7.9
20°-30°	1730.8	10.4
30°-40°	2515.4	15.2
40°-50°	3730.0	22.5
50°-60°	4664.2	28.1
60°-70°	1839.8	11.1
70°-80°	183.2	1.1
80°-90°	14.2	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°	16595.5	100.0
0°-180°	16595.5	100.0



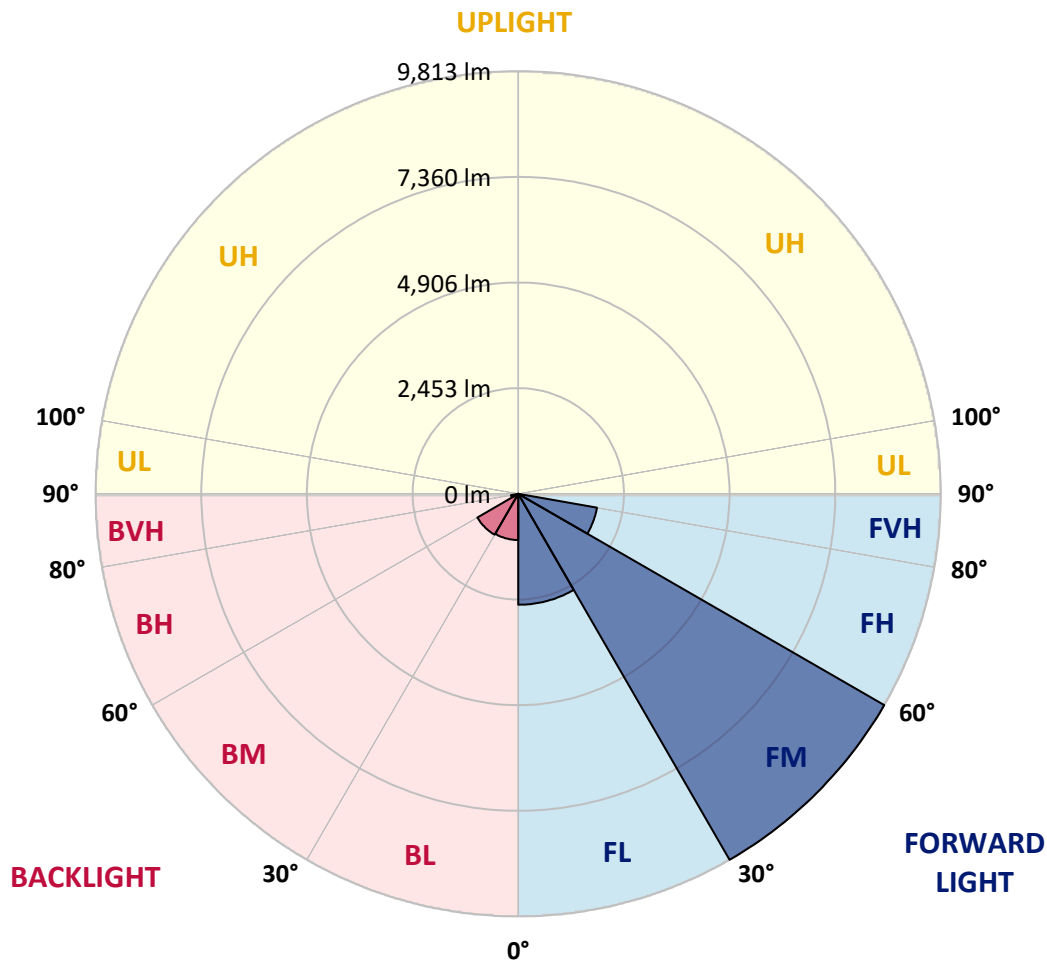
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2576.1	15.5			
FM (30°-60°)	9812.9	59.1			
FH (60°-80°)	1854.8	11.2			G2/5000
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	1072.6	6.5	B3/2500		
BM (30°-60°)	1096.7	6.6	B2/2500		
BH (60°-80°)	168.2	1.0	B1/500		G1/500
BVH (80°-90°)	7.8	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°	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6
2.5°	7736.4	7656.1	7662.4	7634.5	7597.5	7625.3	7504.9	7532.7	7529.6	7366.1	7258.1
5°	7542.0	7628.4	7538.9	7612.9	7542.0	7619.1	7545.0	7489.5	7400.0	7279.7	7079.1
7.5°	7211.7	7128.5	7153.1	7245.7	7261.1	7433.9	7341.3	7412.3	7375.3	7137.7	6863.1
10°	6548.3	6529.8	6653.2	6776.7	6927.9	7113.0	7184.0	7143.9	7116.1	7026.6	6659.4
12.5°	6039.1	6091.6	6088.5	6292.2	6548.3	6653.2	6838.3	6832.2	6986.5	6819.8	6468.0
15°	5554.6	5582.4	5712.0	5838.6	6122.5	6421.8	6650.1	6681.0	6866.2	6748.9	6319.9
17.5°	5258.4	5218.2	5320.1	5471.3	5761.4	6153.3	6406.3	6480.4	6733.5	6708.7	6150.2
20°	4965.3	4965.3	5048.5	5227.6	5492.9	5934.2	6384.8	6363.2	6733.5	6662.5	5968.2
22.5°	4866.4	4915.8	4937.4	5073.2	5388.0	5767.6	6292.2	6332.3	6785.9	6640.9	5887.9
25°	5002.3	4937.4	4943.7	5051.6	5347.9	5687.3	6224.2	6313.8	6881.6	6748.9	5823.1
27.5°	5023.9	5088.6	5107.1	5181.2	5378.7	5712.0	6394.0	6576.1	7119.2	7001.9	5841.6
30°	5212.1	5276.9	5273.8	5400.3	5536.1	5912.6	6773.6	6810.6	7609.9	7319.8	5955.8
32.5°	5440.4	5508.4	5529.9	5678.1	5786.1	6279.8	7236.5	7332.1	8082.0	7819.7	6255.1
35°	5724.4	5699.7	5798.4	5946.5	6178.0	6816.8	7801.2	7961.7	8591.2	8467.8	6563.8
37.5°	6079.3	6048.4	6144.0	6384.8	6699.5	7452.4	8322.7	8427.7	8961.4	9069.5	7134.6
40°	6329.2	6341.6	6631.6	6955.7	7288.9	8057.3	8652.9	8754.7	9220.7	9631.1	7566.6
42.5°	6745.8	6822.9	7171.6	7566.6	7915.3	8510.9	8921.3	9020.1	9341.1	10081.7	8149.9
45°	7350.7	7316.7	7702.5	8143.7	8529.4	8983.1	9239.2	9205.2	9412.1	10529.2	8517.1
47.5°	8128.3	8134.5	8390.6	8767.1	9168.2	9393.5	9594.1	9473.8	9560.2	11001.3	9007.8
50°	8659.1	8705.4	8912.1	9297.8	9498.4	9844.1	10100.2	10026.1	9998.3	11285.2	9316.3
52.5°	8794.8	8933.7	9044.8	9526.2	9995.3	10541.4	10868.6	11025.9	10532.2	11380.8	9708.3
55°	7770.3	7893.8	8285.7	8946.1	10183.5	11646.3	12096.8	12099.9	11229.6	11806.7	9982.9
57.5°	6212.0	5962.0	6202.7	6903.2	8609.7	11599.9	12695.4	12550.4	11578.3	11556.8	9745.3
60°	4295.6	4233.8	4249.3	4527.0	5958.9	9226.9	11313.0	11501.2	10661.8	10016.9	7714.7
62.5°	3403.8	3351.3	3283.4	3252.6	3700.0	5749.1	7980.2	8245.6	7455.5	6495.8	4573.4
65°	2666.2	2635.4	2644.6	2768.1	2765.0	3261.8	4363.4	4255.5	3406.8	2518.1	1438.0
67.5°	1799.1	1845.4	1882.4	2255.8	2447.1	2271.2	2107.7	2046.0	1107.8	466.0	317.8
70°	1012.1	1018.4	1058.5	1410.3	1857.7	1762.1	1453.5	1453.5	552.4	169.7	182.1
72.5°	552.4	533.9	496.9	608.0	827.0	839.4	648.1	564.7	163.6	111.1	101.8
75°	268.4	265.4	228.3	188.2	179.0	148.1	114.2	105.0	74.1	71.0	61.7
77.5°	55.5	52.5	27.8	27.8	30.9	34.0	43.2	43.2	52.5	52.5	43.2
80°	0.0	0.0	3.1	12.4	21.6	30.9	37.0	37.0	43.2	43.2	34.0
82.5°	0.0	0.0	3.1	9.3	18.5	27.8	34.0	37.0	43.2	46.3	37.0
85°	0.0	0.0	0.0	6.1	15.4	21.6	18.5	18.5	15.4	12.4	6.1
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°	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6	7310.6
2.5°	7202.5	7196.4	7054.4	6974.2	6829.1	6702.6	6600.8	6526.7	6526.7	6480.4	6437.2
5°	6998.8	6946.4	6644.0	6449.5	6174.9	5971.3	5832.3	5724.4	5554.6	5600.9	5418.9
7.5°	6745.8	6613.1	6212.0	5915.7	5536.1	5246.1	4949.8	4687.5	4434.4	4320.3	4382.0
10°	6474.3	6242.8	5702.7	5233.7	4761.6	4230.8	3885.2	3465.5	3206.2	3190.8	3123.0
12.5°	6187.2	5924.9	5267.7	4619.6	3999.4	3360.6	2832.8	2440.9	2265.1	2070.6	2107.7
15°	5971.3	5582.4	4783.2	4002.4	3178.5	2533.5	2002.8	1700.3	1533.7	1487.4	1472.0
17.5°	5736.7	5320.1	4289.4	3345.2	2493.4	1823.8	1441.1	1296.1	1231.3	1231.3	1222.1
20°	5492.9	5023.9	3798.8	2734.1	1870.0	1360.9	1154.1	1107.8	1104.7	1101.7	1101.7
22.5°	5332.4	4684.4	3354.4	2172.5	1410.3	1089.3	1002.9	984.4	996.8	1033.8	1033.8
25°	5162.7	4357.3	2863.7	1675.6	1092.4	935.0	885.7	898.0	928.9	962.8	950.5
27.5°	4989.9	4144.4	2400.8	1314.6	894.9	817.8	799.3	827.0	860.9	891.8	882.5
30°	4949.8	3916.0	1962.6	996.8	768.4	712.8	725.2	749.8	783.8	796.2	808.5
32.5°	5011.5	3737.1	1607.7	817.8	669.6	654.2	654.2	666.6	688.2	715.9	706.7
35°	5187.5	3635.2	1271.4	709.7	614.1	598.7	595.6	608.0	620.2	629.5	620.2
37.5°	5455.9	3555.0	1040.0	629.5	577.1	552.4	546.2	543.1	555.5	558.5	564.7
40°	5798.4	3598.1	882.5	580.1	540.0	512.3	493.8	493.8	493.8	503.0	506.1
42.5°	6168.7	3656.8	762.2	552.4	506.1	472.1	453.6	447.5	453.6	466.0	462.9
45°	6557.5	3771.0	685.1	509.1	475.2	432.0	407.4	401.2	416.6	441.3	438.2
47.5°	6921.7	3934.5	626.5	481.4	444.4	404.3	373.4	367.3	395.0	428.9	432.0
50°	7285.8	4218.5	604.8	459.8	422.8	376.5	348.7	342.5	373.4	416.6	425.9
52.5°	7705.5	4523.9	589.4	432.0	398.0	354.9	324.0	317.8	351.8	407.4	410.4
55°	7980.2	4783.2	577.1	382.7	351.8	320.9	296.3	293.2	330.2	379.5	391.9
57.5°	7659.2	4422.1	533.9	333.3	299.3	283.9	262.3	262.3	293.2	339.4	348.7
60°	5807.7	2910.0	379.5	268.4	253.1	243.8	234.6	234.6	259.2	293.2	296.3
62.5°	3400.7	1567.6	243.8	216.1	216.1	206.7	191.3	191.3	216.1	234.6	237.6
65°	1009.1	503.0	197.5	185.2	182.1	166.6	151.2	148.1	166.6	175.9	172.8
67.5°	290.1	231.4	163.6	154.3	151.2	126.5	117.2	114.2	117.2	111.1	108.0
70°	172.8	157.4	126.5	129.6	114.2	92.6	83.3	80.2	74.1	64.8	58.6
72.5°	95.6	95.6	92.6	98.7	80.2	61.7	52.5	43.2	34.0	27.8	24.7
75°	58.6	61.7	64.8	67.9	52.5	40.1	34.0	21.6	12.4	6.1	6.1
77.5°	40.1	43.2	46.3	49.4	43.2	37.0	27.8	15.4	3.1	0.0	0.0
80°	30.9	34.0	40.1	43.2	46.3	49.4	37.0	15.4	3.1	0.0	0.0
82.5°	34.0	37.0	46.3	43.2	43.2	43.2	34.0	15.4	3.1	0.0	0.0
85°	6.1	9.3	15.4	15.4	21.6	27.8	21.6	6.1	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)