

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: P533171

Luminaire Tested: **GALN-SA8C-750-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533171  
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-SA8C-750-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

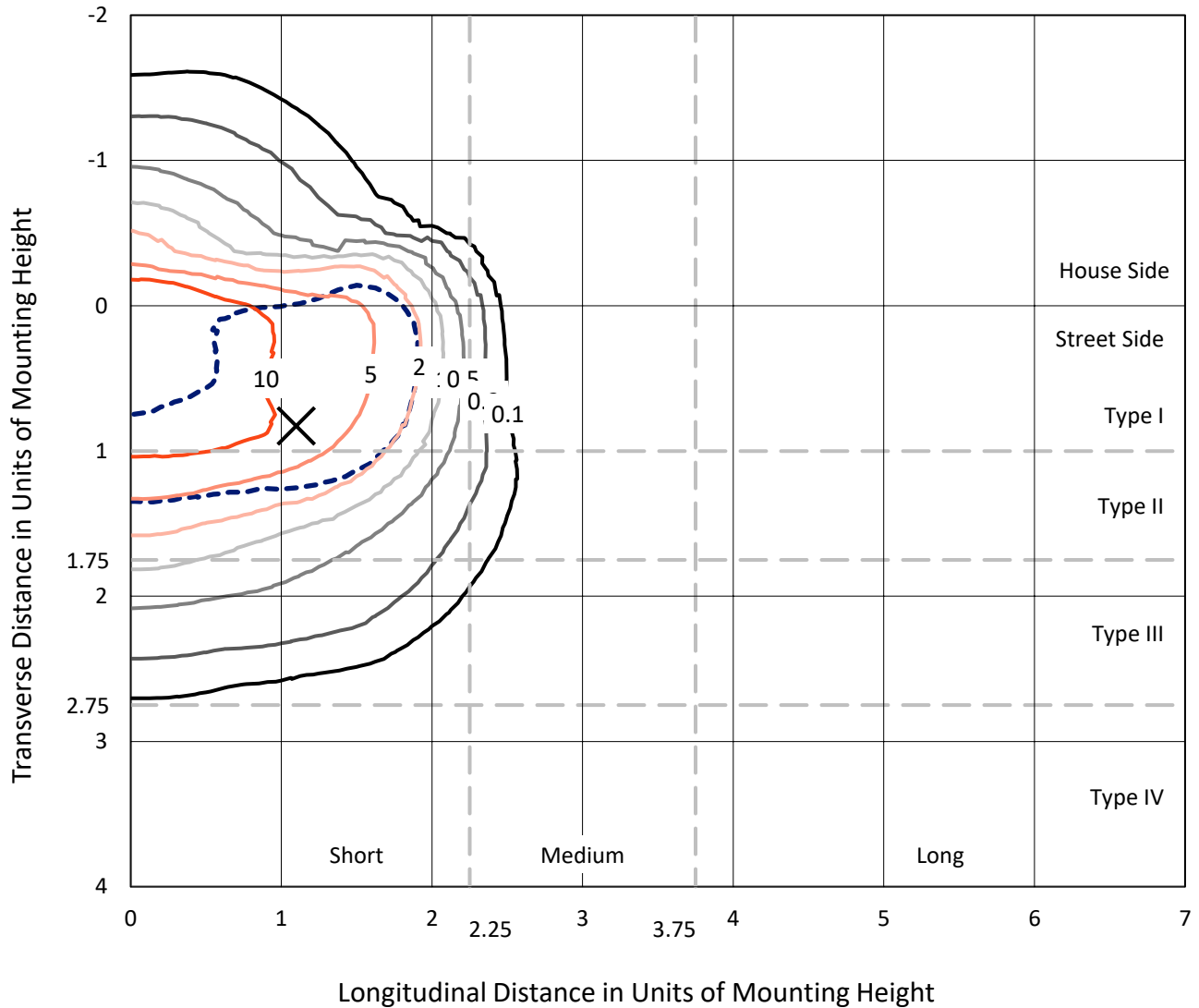
Lumens per Lamp: N/A  
Luminaire Lumens: 33137 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

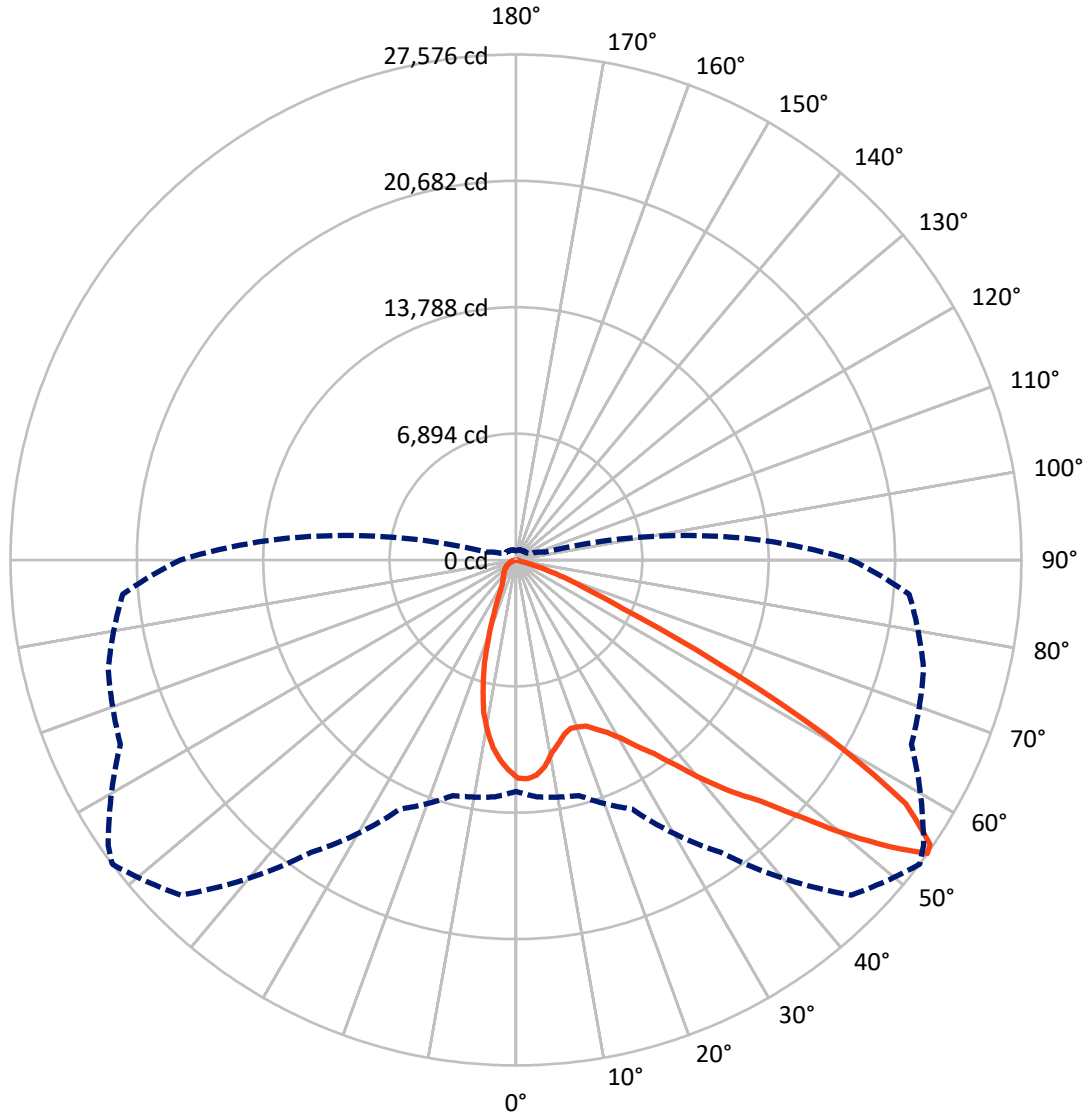
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5482.6	0.0	5482.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	27654.4	0.0	27654.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	33137.0	0.0	33137.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1021.2	3.1
10°-20°	2341.3	7.1
20°-30°	3327.4	10.0
30°-40°	5135.1	15.5
40°-50°	8051.3	24.3
50°-60°	9352.8	28.2
60°-70°	3534.0	10.7
70°-80°	336.1	1.0
80°-90°	37.8	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°	33137.0	100.0
0°-180°	33137.0	100.0

**Coefficient of Utilization**

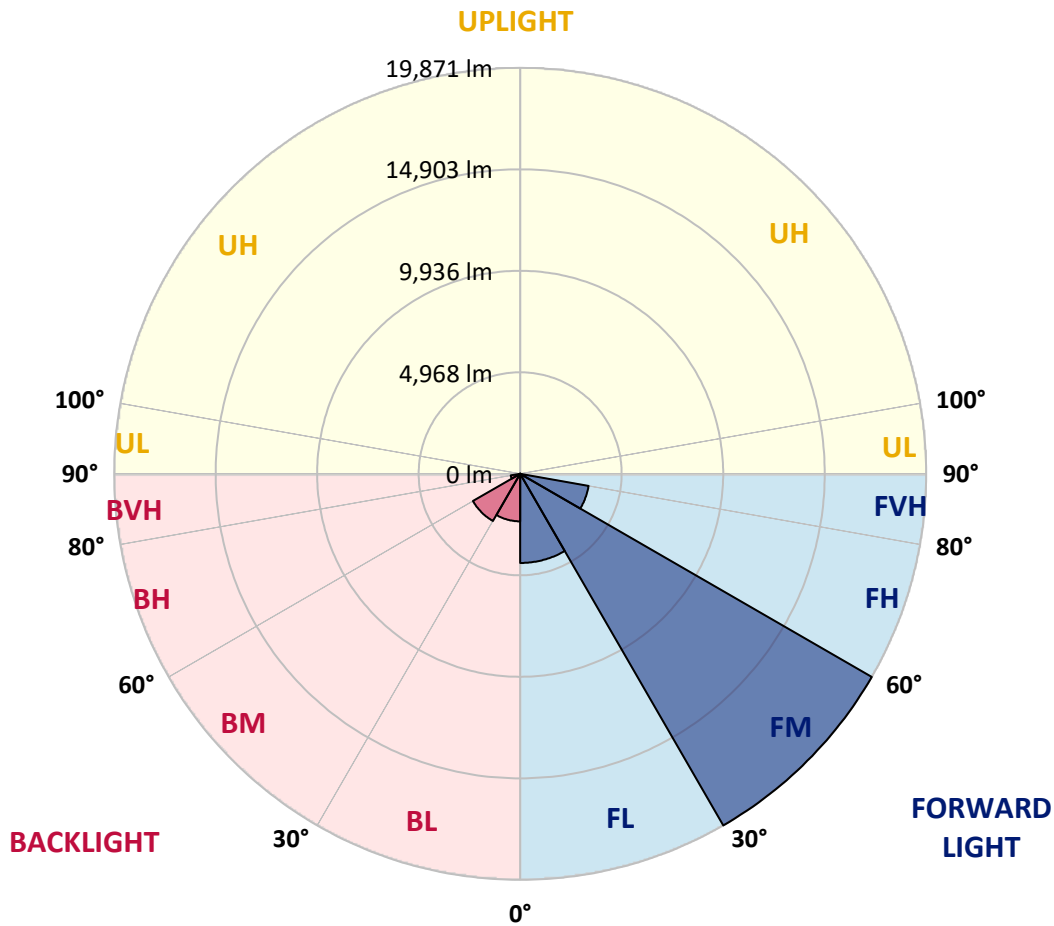


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4363.3	13.2			
FM (30°-60°)	19871.2	60.0			
FH (60°-80°)	3400.4	10.3			G2/5000
FVH (80°-90°)	19.5	0.1			G1/100
BL (0°-30°)	2326.6	7.0	B3/2500		
BM (30°-60°)	2668.0	8.1	B3/5000		
BH (60°-80°)	469.7	1.4	B1/500		G1/500
BVH (80°-90°)	18.3	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°	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3
2.5°	11840.5	11735.6	11840.5	11852.9	11926.9	11994.9	11951.6	12050.4	11994.9	11933.1	11914.6
5°	10883.6	11025.6	11031.8	11254.0	11204.7	11612.1	11791.1	11741.7	12044.2	12025.7	11982.5
7.5°	10025.5	9970.0	10044.1	10303.3	10630.5	11099.7	11359.0	11352.8	11785.0	12093.6	12062.8
10°	9229.2	9223.0	9377.3	9581.1	9858.9	10352.7	10710.8	10889.8	11562.7	12031.9	12099.8
12.5°	8692.1	8667.4	8834.1	9000.8	9439.1	9821.8	10278.7	10365.1	11136.8	11815.8	11926.9
15°	8340.2	8395.8	8408.1	8729.1	9006.9	9513.2	9871.2	10050.2	10939.2	11643.0	12068.9
17.5°	8278.5	8352.6	8358.7	8624.2	8920.5	9346.5	9661.3	9902.1	10772.5	11729.4	12075.1
20°	8402.0	8358.7	8395.8	8562.5	8852.6	9260.1	9716.9	9797.1	10717.0	11772.6	12143.0
22.5°	8753.8	8741.5	8648.9	8784.7	8988.4	9414.4	9846.5	9970.0	10877.5	11994.9	12198.6
25°	9142.8	9210.7	9124.2	9105.7	9247.7	9667.5	10241.6	10402.1	11414.6	12396.1	12371.4
27.5°	9871.2	9803.3	9803.3	9716.9	9679.8	9883.6	10667.6	10933.0	12013.4	12914.7	12569.0
30°	10568.8	10642.9	10587.3	10618.2	10371.3	10352.7	11272.6	11599.8	13075.2	13704.9	12988.8
32.5°	11673.8	11575.1	11667.7	11587.4	11260.2	10926.9	12093.6	12433.2	14359.3	14612.4	13618.4
35°	12593.7	12550.5	12945.6	12933.2	12402.3	12075.1	12964.1	13470.3	15254.4	15698.9	14359.3
37.5°	13902.4	13822.2	14272.8	14488.9	14013.5	13525.8	14211.1	14797.6	16087.8	16569.3	15118.6
40°	15248.2	15451.9	16056.9	16415.0	15908.8	15260.6	15735.9	15914.9	16643.4	17137.3	15637.1
42.5°	16952.1	17248.4	17865.7	18174.4	18131.2	17427.4	17285.4	17279.3	17044.7	16976.8	16019.9
45°	18588.0	18476.9	19427.6	20100.5	20643.7	20440.0	18779.4	18594.2	17680.5	17217.5	16118.7
47.5°	19304.1	19267.1	19915.3	21112.9	22964.9	23218.0	20952.4	20236.3	18754.7	18230.0	16655.7
50°	18378.1	18569.5	19211.5	20538.8	23378.5	25310.8	23619.3	22656.3	20007.9	19464.6	17927.5
52.5°	15353.2	15482.8	16094.0	17779.3	21971.0	26545.5	26175.1	25619.5	22310.5	21409.2	20143.7
54°	12624.5	12970.2	13303.6	14995.1	19464.6	25860.2	27576.4	27150.5	23810.7	23026.7	21538.9
55°	10994.8	11198.5	11439.2	13124.6	17729.9	24699.6	27415.9	27453.0	24816.9	23532.9	22477.2
57.5°	8031.6	8173.5	7926.6	8673.6	12173.9	20057.3	25076.2	26076.3	26175.1	24292.2	23051.4
60°	6136.3	6198.1	5920.3	6037.6	7568.5	13766.6	19396.7	20600.5	23613.1	21230.2	19526.4
62.5°	4759.7	4772.0	4765.8	4969.6	5216.5	8099.5	12130.7	13198.7	16279.2	15075.4	13260.4
65°	3506.5	3450.9	3549.7	4167.0	4451.0	5093.0	6389.4	7167.3	8846.4	7469.8	5340.0
67.5°	2271.8	2290.3	2389.1	3099.0	3815.1	3907.7	3932.4	3870.7	3876.9	2136.0	1339.6
70°	1364.3	1395.2	1364.3	1753.2	2728.6	2802.7	2561.9	2500.2	1950.8	506.2	500.0
72.5°	808.7	765.5	685.2	753.2	1135.9	1358.1	1222.3	1216.2	765.5	296.3	296.3
75°	339.5	308.7	253.1	228.4	302.5	290.1	290.1	259.3	203.7	197.5	185.2
77.5°	67.9	67.9	49.4	55.6	74.1	86.4	104.9	104.9	123.5	123.5	117.3
80°	0.0	6.2	18.5	37.0	55.6	80.3	92.6	92.6	104.9	104.9	86.4
82.5°	0.0	6.2	18.5	37.0	49.4	74.1	92.6	92.6	104.9	111.1	92.6
85°	0.0	6.2	18.5	30.9	49.4	61.7	61.7	55.6	43.2	37.0	24.7
87.5°	0.0	0.0	6.2	12.3	6.2	12.3	12.3	12.3	12.3	12.3	12.3
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°	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3	11902.3
2.5°	11957.8	11951.6	11803.5	11562.7	11507.2	11303.4	11278.7	11155.3	11223.2	10994.8	10970.1
5°	11859.0	11785.0	11605.9	11451.6	11000.9	10679.9	10426.8	10118.1	9939.1	9970.0	9852.7
7.5°	12001.0	11809.7	11494.8	10957.7	10408.3	9846.5	9544.0	8914.3	8685.9	8346.4	8297.0
10°	11852.9	11710.9	11223.2	10334.2	9574.9	8766.2	8056.2	7358.7	6827.7	6599.3	6549.9
12.5°	11840.5	11593.6	10778.7	9791.0	8692.1	7531.5	6500.6	5630.1	5105.4	4809.1	4741.1
15°	11649.1	11352.8	10278.7	8951.4	7432.7	5988.2	4864.6	4025.0	3623.8	3450.9	3500.3
17.5°	11667.7	11223.2	9778.6	8062.4	6191.9	4395.4	3321.3	2889.1	2784.2	2827.4	2827.4
20°	11649.1	10933.0	9173.6	7037.6	4741.1	3049.6	2438.5	2284.1	2352.1	2487.9	2457.0
22.5°	11550.4	10797.2	8618.0	5957.3	3488.0	2259.5	1957.0	1963.1	2068.1	2234.8	2271.8
25°	11624.5	10494.7	7914.3	4864.6	2543.4	1802.6	1697.7	1740.9	1852.0	1975.5	2000.2
27.5°	11568.9	10278.7	7179.6	3778.1	1858.2	1549.5	1543.3	1592.7	1642.1	1734.7	1734.7
30°	11630.6	10081.1	6457.3	2808.9	1531.0	1419.9	1395.2	1432.2	1481.6	1500.1	1494.0
32.5°	11859.0	9932.9	5623.9	2098.9	1352.0	1296.4	1296.4	1296.4	1290.2	1314.9	1321.1
35°	12359.1	9957.6	4889.3	1623.6	1234.7	1191.5	1172.9	1148.2	1135.9	1148.2	1154.4
37.5°	12902.3	9945.3	4130.0	1382.8	1148.2	1111.2	1068.0	1031.0	1024.8	1037.1	1018.6
40°	13143.1	10062.6	3426.2	1240.8	1068.0	1024.8	956.9	926.0	932.2	944.5	932.2
42.5°	13470.3	10099.6	2969.4	1129.7	993.9	926.0	882.8	845.8	839.6	858.1	851.9
45°	13464.1	9889.7	2487.9	1068.0	926.0	851.9	796.4	765.5	765.5	777.8	784.0
47.5°	13859.2	9858.9	2136.0	1012.4	876.6	802.5	734.6	709.9	703.8	703.8	691.4
50°	14779.0	10291.0	1864.4	950.7	814.9	747.0	691.4	660.6	635.9	623.5	617.3
52.5°	16575.5	11636.8	1654.5	876.6	747.0	691.4	642.0	617.3	586.5	555.6	549.4
54°	18316.4	13025.8	1642.1	814.9	691.4	654.4	611.2	598.8	561.8	518.6	506.2
55°	19100.4	13834.5	1685.3	765.5	654.4	629.7	592.6	580.3	543.3	493.9	487.7
57.5°	19748.6	14149.4	1660.6	635.9	592.6	586.5	555.6	537.1	493.9	426.0	413.6
60°	15896.4	10698.4	1191.5	561.8	543.3	530.9	506.2	493.9	438.3	364.2	358.1
62.5°	10044.1	6154.8	759.3	493.9	475.3	456.8	426.0	413.6	364.2	290.1	271.6
65°	4278.1	2549.6	512.4	438.3	407.4	376.6	351.9	333.4	290.1	216.1	209.9
67.5°	1111.2	907.5	426.0	382.7	339.5	296.3	277.8	246.9	197.5	148.2	142.0
70°	500.0	456.8	358.1	321.0	271.6	228.4	203.7	172.9	129.6	98.8	92.6
72.5°	296.3	290.1	271.6	240.8	203.7	172.9	148.2	117.3	86.4	55.6	55.6
75°	185.2	179.0	185.2	166.7	142.0	129.6	111.1	80.3	49.4	24.7	24.7
77.5°	111.1	111.1	111.1	104.9	98.8	98.8	80.3	49.4	24.7	6.2	6.2
80°	86.4	86.4	92.6	86.4	86.4	86.4	67.9	37.0	12.3	0.0	0.0
82.5°	86.4	92.6	104.9	98.8	86.4	74.1	61.7	37.0	12.3	0.0	0.0
85°	24.7	18.5	30.9	43.2	61.7	55.6	43.2	30.9	12.3	0.0	0.0
87.5°	12.3	12.3	12.3	12.3	6.2	6.2	6.2	6.2	6.2	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)