

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: P533160

Luminaire Tested: **GALN-SA8C-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-740-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49558 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

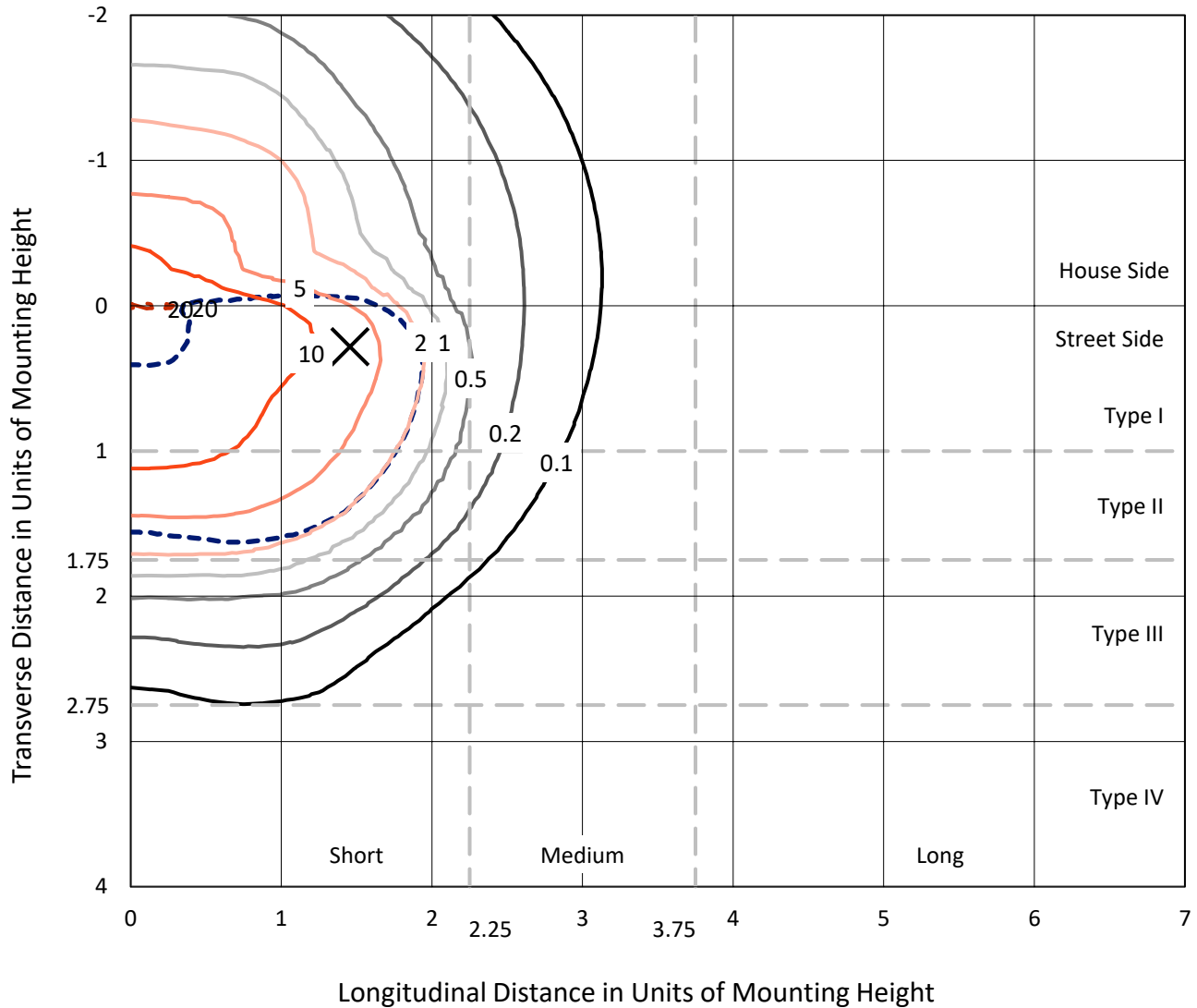
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

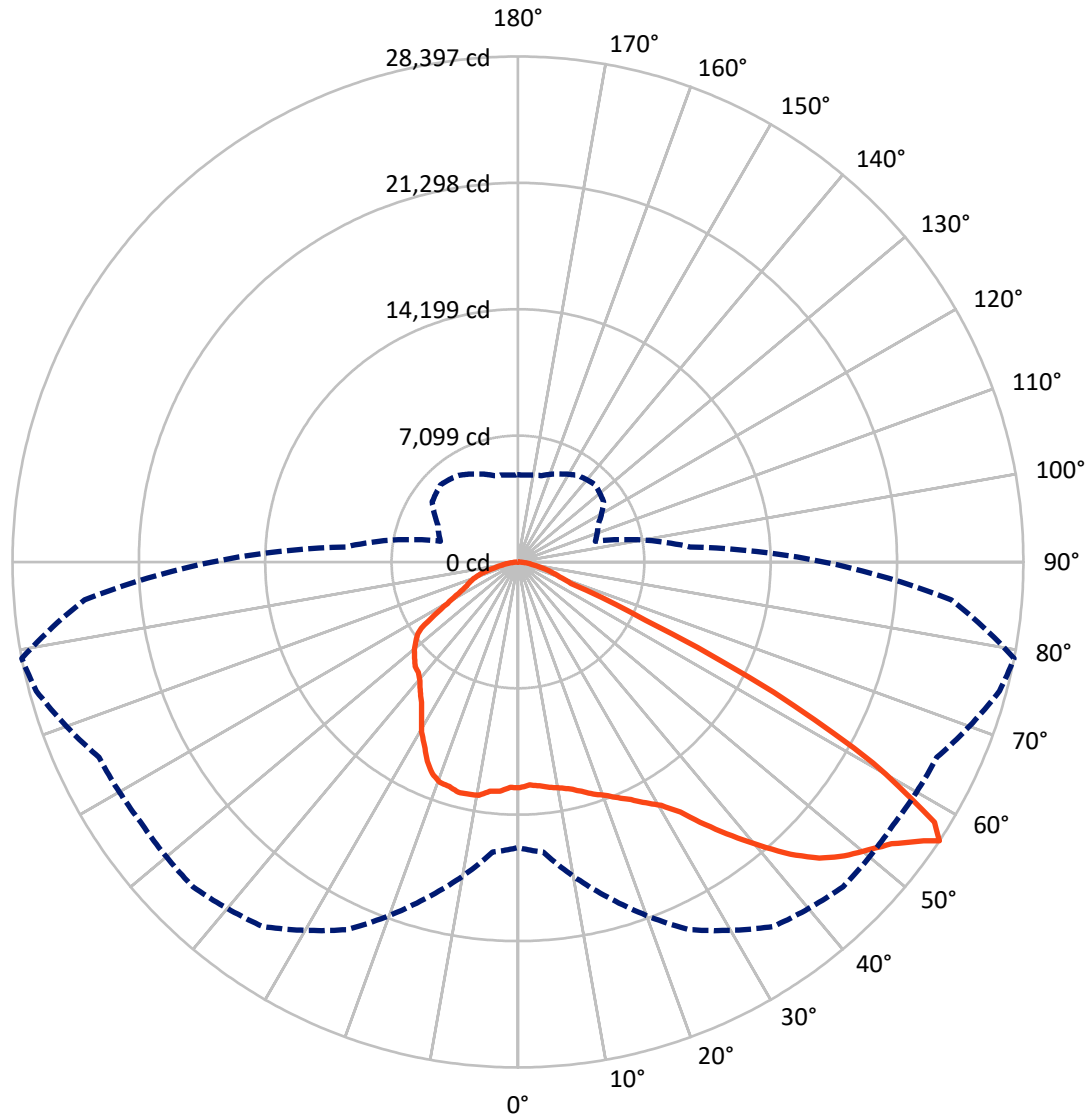
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14635.6	0.0	14635.6
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	34922.4	0.0	34922.4
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	49558.0	0.0	49558.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1152.8	2.3
10°-20°	3155.0	6.4
20°-30°	5397.6	10.9
30°-40°	8272.5	16.7
40°-50°	11180.3	22.6
50°-60°	12841.0	25.9
60°-70°	5853.3	11.8
70°-80°	1443.1	2.9
80°-90°	262.3	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°	49558.0	100.0
0°-180°	49558.0	100.0

**Coefficient of Utilization**



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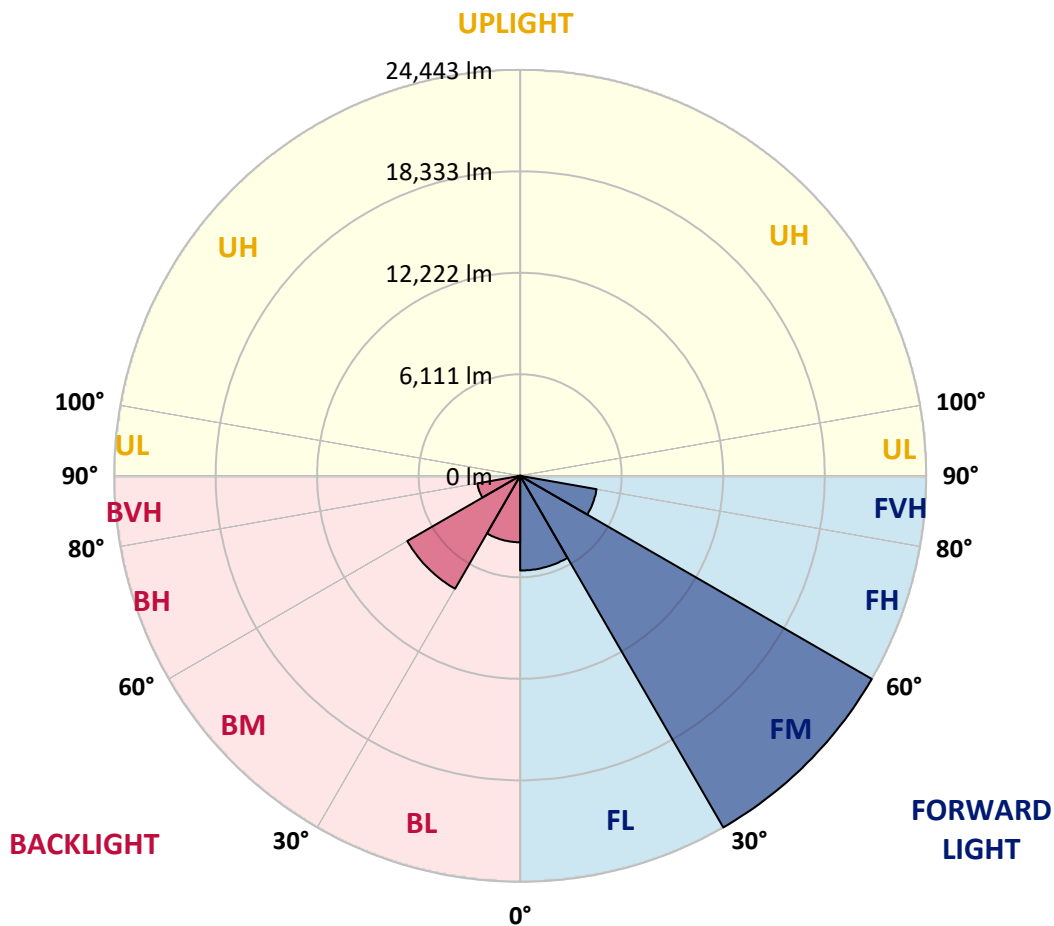
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5702.1	11.5			
FM (30°-60°)	24443.5	49.3			
FH (60°-80°)	4672.2	9.4			G2/5000
FVH (80°-90°)	104.7	0.2			G2/225
BL (0°-30°)	4003.5	8.1	B4/5000		
BM (30°-60°)	7850.3	15.8	B4/8500		
BH (60°-80°)	2624.2	5.3	B4/5000		G4/5000
BVH (80°-90°)	157.6	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9
2.5°	12062.6	12031.7	12105.8	12161.4	12229.3	12315.7	12358.9	12383.6	12599.7	12544.1	12710.8
5°	11803.3	11723.1	11778.6	11821.8	11939.1	12044.1	12161.4	12346.6	12544.1	12630.5	12834.3
7.5°	11574.9	11531.7	11519.4	11550.2	11710.7	11846.5	12050.3	12321.9	12642.9	12784.9	12902.2
10°	11198.3	11136.6	11229.2	11432.9	11476.1	11760.1	11994.7	12383.6	12661.4	12908.3	13254.0
12.5°	11031.7	10969.9	10988.4	11105.7	11408.2	11679.9	11957.7	12396.0	12982.4	13081.2	13544.2
15°	11297.1	11235.4	11253.9	11223.0	11513.2	11655.2	12093.5	12642.9	13204.7	13371.3	13865.2
17.5°	11902.1	11908.3	11828.0	11760.1	11692.2	11994.7	12297.2	12791.0	13291.1	13710.9	14081.3
20°	13056.5	12852.8	12692.3	12309.5	12204.6	12334.2	12717.0	13192.3	13643.0	13988.7	14408.4
22.5°	13945.5	13964.0	13735.6	13105.9	12877.5	12933.0	13260.2	13649.1	14143.0	14389.9	14871.4
25°	15235.7	15106.0	14859.1	14359.1	13846.7	13889.9	14130.7	14482.5	14618.3	14791.2	15315.9
27.5°	16414.8	16451.8	15964.1	15494.9	14859.1	14735.6	15167.8	15229.5	15001.1	15328.3	15507.3
30°	17612.4	17581.5	17260.5	16711.1	16087.6	16112.3	16303.6	16001.2	15686.3	15865.3	15988.8
32.5°	18853.2	18501.3	18489.0	17995.1	17519.8	17291.4	17056.8	17204.9	16717.3	16754.3	16637.0
35°	19847.1	19896.5	19612.5	19260.7	19026.1	18624.8	17982.8	18248.2	18155.6	18112.4	17606.2
37.5°	20569.4	20378.0	20520.0	20402.7	20180.5	19680.4	19013.7	19266.8	19310.0	19519.9	18933.5
40°	21162.0	21081.8	21458.3	21520.1	21365.7	20285.4	19087.8	19840.9	20489.1	20946.0	20248.4
42.5°	21446.0	21618.8	22013.9	22489.3	22143.6	20989.2	19470.5	20279.2	21723.8	22446.1	21495.4
45°	21828.7	21606.5	22193.0	23063.4	23069.6	21581.8	19840.9	20871.9	22686.8	23736.3	22347.3
47.5°	21439.8	21550.9	22155.9	23260.9	23544.9	22205.3	20841.0	21711.4	23748.6	24680.8	23137.5
50°	20569.4	20791.6	21896.6	23044.9	23903.0	22865.9	21989.2	22618.9	24730.2	25440.1	23267.1
52.5°	19661.9	19785.4	21513.9	23211.6	24063.5	23717.8	23526.4	23872.1	25927.8	26298.2	23427.6
55°	17192.6	17779.1	20248.4	23137.5	24847.5	25254.9	25106.8	25613.0	27285.9	27656.3	24304.2
56°	16050.5	16359.2	19489.1	22791.8	25001.8	25816.7	25742.6	25971.0	28008.2	28397.1	24440.0
57.5°	13939.3	13964.0	16618.5	21260.8	24421.5	25983.4	25909.3	26088.3	27866.2	27600.8	23248.6
60°	8722.9	9105.6	11309.5	16353.0	20766.9	24106.7	24526.5	23088.1	23495.5	22933.8	18087.7
62.5°	4518.8	4463.3	5926.4	9562.4	13784.9	17260.5	17649.4	17581.5	16951.8	16130.8	11815.7
65°	2253.2	2265.6	3099.0	4734.9	7062.2	9037.7	10124.2	10241.5	8568.5	7883.3	5605.3
67.5°	1635.9	1697.7	2228.6	2895.3	3327.4	3722.5	4562.1	4475.6	3389.1	3222.5	2987.9
70°	1271.7	1327.3	1808.8	2210.0	2006.3	2006.3	2185.3	2259.4	2413.8	2481.7	2561.9
72.5°	926.0	969.2	1382.8	1524.8	1314.9	1413.7	1635.9	1808.8	1969.3	1994.0	2086.6
75°	635.8	672.9	907.5	839.6	790.2	975.4	1197.6	1358.1	1475.4	1537.1	1592.7
77.5°	413.6	426.0	518.6	438.3	506.2	629.7	777.8	913.6	1030.9	1080.3	1092.7
80°	185.2	203.7	222.2	277.8	351.9	450.6	555.6	666.7	740.8	759.3	796.4
82.5°	104.9	104.9	135.8	197.5	259.3	327.2	401.3	481.5	567.9	586.5	580.3
85°	55.6	55.6	80.3	117.3	160.5	191.4	185.2	191.4	203.7	234.6	228.4
87.5°	18.5	18.5	24.7	24.7	30.9	37.0	30.9	43.2	55.6	55.6	55.6
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°	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9	12679.9
2.5°	12661.4	12717.0	12642.9	12803.4	12803.4	12772.5	12618.2	12667.6	12704.6	12704.6	12735.5
5°	12902.2	12883.6	12933.0	12741.7	12624.4	12581.2	12328.1	12204.6	12099.6	12093.5	12000.9
7.5°	13038.0	12988.6	12970.1	12828.1	12309.5	11994.7	11451.4	11136.6	11068.7	10827.9	10920.5
10°	13254.0	13346.6	13254.0	12482.4	11760.1	11037.8	10506.9	10019.2	9827.9	9673.5	9580.9
12.5°	13698.5	13655.3	13118.2	12074.9	11062.5	10204.4	9414.3	8901.9	8710.5	8574.7	8562.3
15°	14075.1	13859.0	13038.0	11432.9	9976.0	9062.4	8414.2	8050.0	7963.5	7975.9	8031.4
17.5°	14204.7	14056.6	12618.2	10766.2	9167.3	8093.2	7790.7	7735.1	7815.4	7908.0	7932.7
20°	14408.4	14173.9	12445.3	9858.7	8167.3	7488.2	7469.7	7667.2	7815.4	7951.2	7969.7
22.5°	14834.4	14241.8	11883.6	9000.7	7482.0	7309.2	7488.2	7654.9	7883.3	7994.4	7895.6
25°	14957.9	14093.6	11093.4	7969.7	7049.9	7198.1	7389.4	7617.8	7778.3	7840.1	7883.3
27.5°	15062.8	13865.2	10025.4	7284.5	6914.1	7191.9	7389.4	7580.8	7667.2	7722.8	7772.2
30°	15359.1	13797.3	9099.4	6827.7	6827.7	7068.4	7321.5	7370.9	7488.2	7556.1	7642.5
32.5°	15507.3	13328.1	8148.7	6537.5	6741.2	7130.1	7148.7	7241.3	7247.4	7303.0	7210.4
35°	15896.2	12994.8	7266.0	6327.6	6778.3	7068.4	7161.0	7105.5	6803.0	6654.8	6685.7
37.5°	16180.2	12828.1	6630.1	6302.9	6784.4	7136.3	7185.7	6765.9	6451.1	6204.2	6265.9
40°	16945.7	12414.5	6148.6	6259.7	6840.0	7210.4	7074.6	6617.8	6049.8	5796.7	5753.5
42.5°	17532.1	12118.2	5846.1	6210.3	6883.2	7315.3	7019.0	6321.4	5741.2	5506.6	5568.3
45°	18211.2	12050.3	5685.6	6222.7	6957.3	7370.9	6951.1	6093.0	5475.7	5383.1	5364.6
47.5°	18452.0	11562.6	5512.7	6117.7	6938.8	7352.4	6722.7	5920.2	5376.9	5389.3	5438.7
50°	18050.7	11062.5	5383.1	5901.7	6815.3	7185.7	6364.7	5691.8	5321.4	5475.7	5562.1
52.5°	17538.3	10550.1	5117.7	5611.5	6562.2	6926.4	6198.0	5679.4	5265.8	5216.4	5234.9
55°	17692.6	10130.4	4747.3	5216.4	6154.8	6444.9	6012.8	5562.1	5130.0	4944.8	5006.5
56°	17192.6	9698.2	4506.5	4969.5	5877.0	6136.2	5920.2	5457.2	5018.9	4895.4	4895.4
57.5°	15778.9	8247.5	4191.7	4574.4	5290.5	5599.2	5741.2	5395.5	4895.4	4679.4	4685.5
60°	11636.6	5864.6	3759.5	4031.2	4383.0	4630.0	5290.5	5222.6	4586.8	4438.6	4383.0
62.5°	7173.4	4284.3	3450.9	3555.8	3734.8	3938.6	4617.6	4728.7	4259.6	4099.1	4062.0
65°	4018.8	3278.0	3216.3	3259.5	3345.9	3450.9	3833.6	4080.5	3759.5	3512.6	3500.3
67.5°	2938.5	2932.3	2981.7	3018.7	3055.8	3055.8	3148.4	3247.1	3203.9	3006.4	2987.9
70°	2611.3	2629.8	2666.9	2673.0	2685.4	2642.2	2568.1	2537.2	2586.6	2463.1	2438.4
72.5°	2154.5	2216.2	2259.4	2265.6	2197.7	2142.1	2043.4	1938.4	1901.4	1876.7	1870.5
75°	1654.4	1697.7	1716.2	1710.0	1685.3	1605.1	1487.8	1382.8	1314.9	1240.8	1277.9
77.5°	1117.4	1179.1	1210.0	1210.0	1172.9	1049.5	993.9	913.6	845.7	765.5	777.8
80°	784.0	827.2	876.6	870.4	808.7	747.0	666.7	592.6	537.1	475.3	469.2
82.5°	586.5	611.2	635.8	623.5	580.3	518.6	463.0	395.1	333.4	290.1	290.1
85°	209.9	228.4	277.8	290.1	314.8	314.8	265.5	222.2	179.0	148.2	148.2
87.5°	61.7	61.7	67.9	67.9	61.7	67.9	55.6	61.7	67.9	43.2	43.2
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)