

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: P534316

Luminaire Tested: **GALN-SA9D-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59442 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

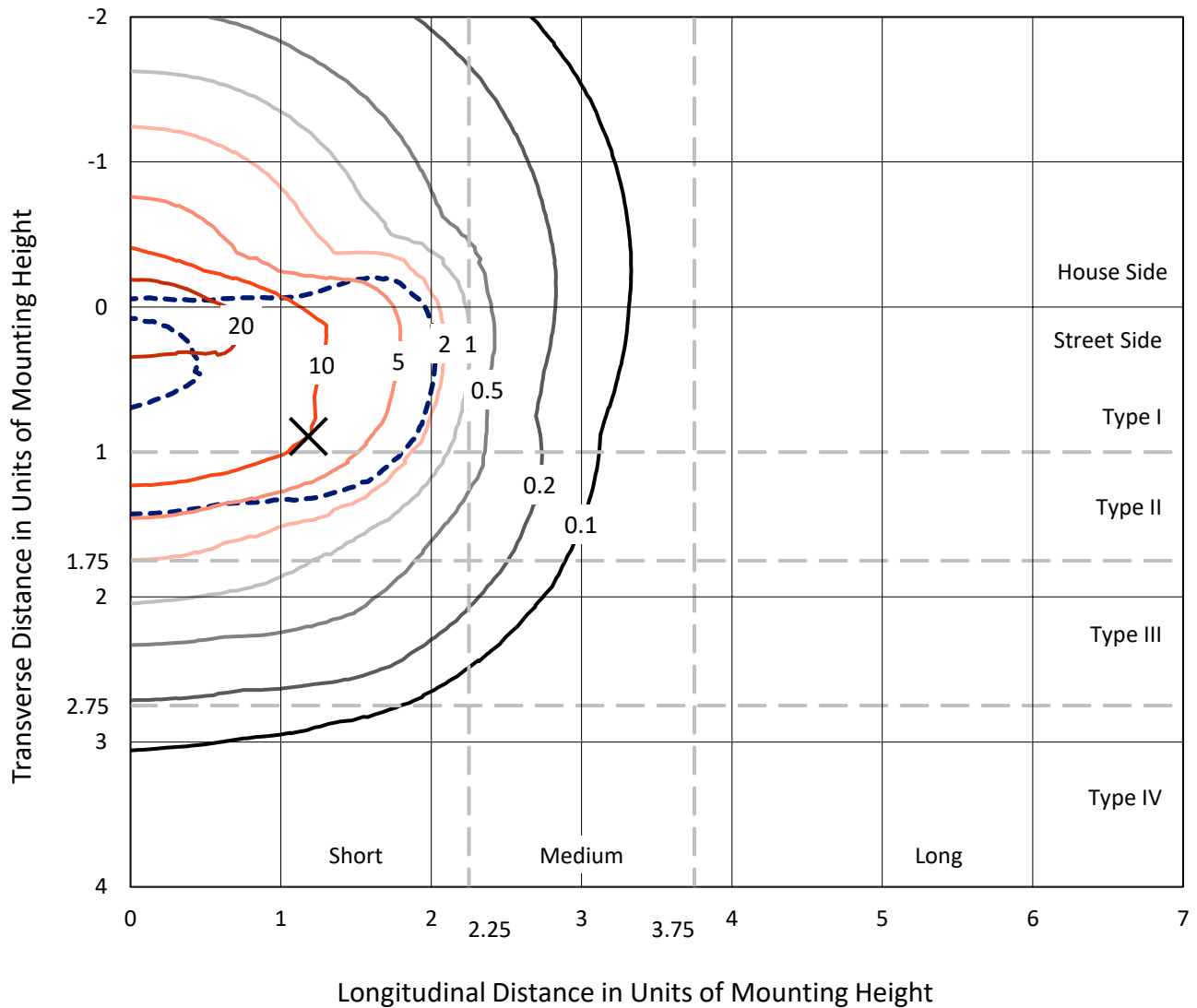
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

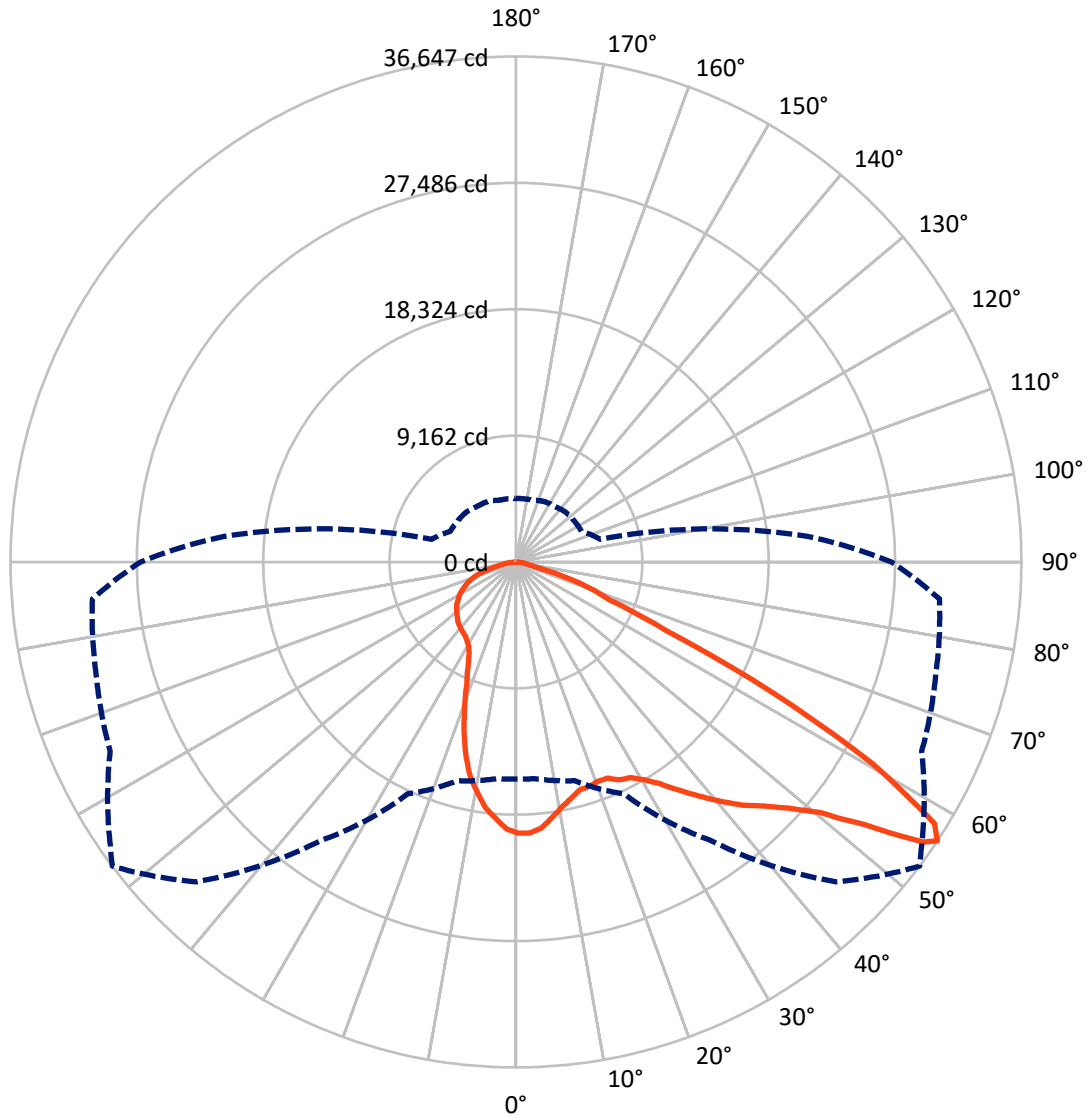
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17346.5	0.0	17346.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	42095.5	0.0	42095.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	59442.0	0.0	59442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1741.0	2.9
10°-20°	4348.2	7.3
20°-30°	6411.8	10.8
30°-40°	9161.3	15.4
40°-50°	12609.2	21.2
50°-60°	14900.7	25.1
60°-70°	7941.1	13.4
70°-80°	2014.6	3.4
80°-90°	314.1	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°	59442.0	100.0
0°-180°	59442.0	100.0

Coefficient of Utilization

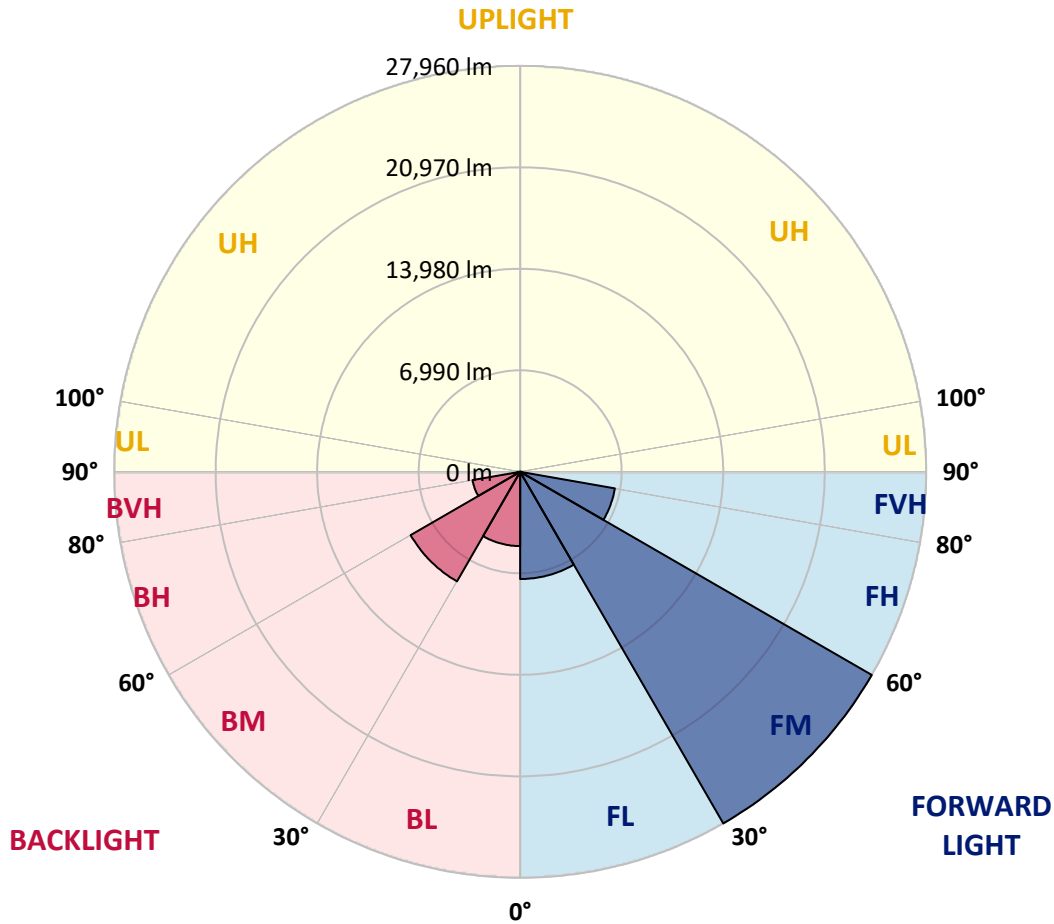


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7384.8	12.4			
FM (30°-60°)	27960.4	47.0			
FH (60°-80°)	6624.1	11.1			G3/7500
FVH (80°-90°)	126.3	0.2			G2/225
BL (0°-30°)	5116.2	8.6	B5		
BM (30°-60°)	8710.8	14.7	B5		
BH (60°-80°)	3331.6	5.6	B4/5000		G4/5000
BVH (80°-90°)	187.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8
2.5°	19421.7	19254.0	19353.1	19315.0	19627.6	19719.1	19673.4	19711.5	19886.9	19803.0	19627.6
5°	18148.3	18384.7	18430.5	18544.8	18727.8	19086.2	19368.4	19444.6	19528.5	19917.4	19879.3
7.5°	16989.3	17149.4	17065.5	17401.0	17797.5	18377.1	18720.2	18781.2	19551.4	19764.9	19925.0
10°	16257.2	16097.1	16478.4	16569.9	17019.8	17683.2	18094.9	18346.6	19048.1	19894.5	19993.6
12.5°	15578.6	15525.2	15754.0	16013.2	16516.5	17202.8	17622.2	17721.3	18804.1	19696.3	20161.4
15°	15075.3	15014.3	15243.1	15433.7	16020.8	16630.9	17164.6	17446.8	18537.2	19581.9	20016.5
17.5°	14678.8	14671.2	14800.8	15143.9	15746.3	16257.2	17118.9	17134.1	18399.9	19757.3	20138.5
20°	14655.9	14648.3	14671.2	15052.4	15601.4	16226.7	16974.0	17111.3	18399.9	19635.3	20146.2
22.5°	14846.5	14724.5	14861.8	15105.8	15502.3	16280.1	17027.4	17332.4	18842.2	20237.7	20489.3
25°	15151.6	15182.1	15258.3	15342.2	15570.9	16402.1	17500.2	17751.8	19360.7	20756.2	20962.1
27.5°	15708.2	15693.0	15723.5	15769.2	15967.5	16516.5	17690.8	18338.9	20443.5	21678.8	21473.0
30°	16524.1	16470.7	16592.7	16752.9	16569.9	16882.5	18323.7	18811.7	21450.1	22609.1	22044.9
32.5°	17263.8	17462.0	17690.8	17759.4	17538.3	17599.3	19162.5	19658.1	22288.9	23752.9	22746.4
35°	18186.4	18346.6	18651.6	18865.1	18827.0	18644.0	20306.3	20962.1	23501.3	24591.7	23486.1
37.5°	19086.2	19276.9	19780.1	20413.0	20062.3	19978.4	21526.3	22067.7	23874.9	25041.6	24027.5
40°	20535.0	20527.4	21396.7	21724.6	22037.2	21892.4	22792.1	22975.2	24073.2	24942.5	24042.7
42.5°	22235.5	22128.7	23013.3	23524.2	23928.3	23943.6	24111.3	24050.3	24164.7	24439.2	23882.6
45°	23852.1	24080.8	24973.0	25888.0	26292.2	26337.9	25224.6	25110.3	24324.8	24294.3	23577.6
47.5°	25827.0	25880.4	26612.4	27817.2	28755.2	28434.9	26665.8	26414.2	25026.4	25262.8	24088.5
50°	25941.4	26337.9	26993.7	28412.0	31294.4	31210.5	28534.0	28061.3	26154.9	26635.3	25514.4
52.5°	23547.1	23455.6	24233.3	26551.4	31103.8	33970.9	31629.9	30501.4	28579.8	28213.8	27824.9
55°	17942.4	18155.9	18842.2	21183.2	27009.0	34009.0	35846.7	34924.1	31172.4	30547.1	30097.2
56°	15738.7	15769.2	16417.4	18552.5	24645.1	32796.6	36647.4	35900.1	32461.1	31507.9	30821.6
57.5°	13047.0	12871.6	13207.1	14373.8	20801.9	30234.5	35770.5	36502.5	33970.9	32545.0	31591.8
60°	10271.3	10233.2	10096.0	10309.5	13146.1	22776.9	29777.0	31424.0	33818.4	31568.9	30257.4
62.5°	8387.9	8197.2	8471.8	8776.8	9135.2	14129.8	20923.9	21892.4	26848.8	25201.8	22731.1
65°	6504.4	6412.9	6756.1	7747.3	7960.9	8975.0	11918.4	12665.7	15853.1	15570.9	13710.4
67.5°	4476.1	4491.3	4788.7	6298.5	7381.3	7289.8	7297.5	7686.3	8273.5	6146.0	5353.0
70°	2836.6	2829.0	2989.1	4056.7	5940.1	6001.1	5696.1	5581.8	5292.0	3202.6	3393.3
72.5°	1822.5	1769.1	1853.0	2241.9	3073.0	3553.4	3660.2	3728.8	3065.4	2516.4	2729.9
75°	1029.4	976.0	945.5	1044.7	1212.4	1403.1	1540.3	1586.1	1776.7	1906.3	2020.7
77.5°	312.6	282.1	343.1	457.5	602.4	808.3	983.7	1014.2	1197.2	1349.7	1464.1
80°	137.3	152.5	213.5	305.0	427.0	571.9	693.9	739.7	861.7	976.0	1006.5
82.5°	83.9	91.5	144.9	205.9	297.4	404.1	495.6	510.9	632.9	724.4	747.3
85°	30.5	38.1	76.3	122.0	190.6	259.3	259.3	282.1	259.3	259.3	282.1
87.5°	0.0	0.0	7.6	15.3	15.3	22.9	30.5	30.5	38.1	45.8	53.4
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°	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8	19665.8
2.5°	19719.1	19681.0	19620.0	19398.9	19376.0	19307.4	18926.1	18865.1	18926.1	18743.1	18758.3
5°	19681.0	19795.4	19337.9	19116.7	18705.0	18407.6	18064.4	17889.1	17576.4	17378.2	17599.3
7.5°	19848.8	19803.0	19231.1	18750.7	18133.1	17378.2	16775.8	16432.6	15883.6	15731.1	15845.5
10°	19787.8	19543.8	18872.7	18239.8	17073.1	16409.7	15433.7	14488.1	13969.6	13702.7	13664.6
12.5°	19703.9	19635.3	18514.3	17423.9	16196.2	14800.8	13428.2	12536.1	11689.6	11323.6	11377.0
15°	19803.0	19223.5	17843.3	16463.1	14831.3	13001.2	11521.9	10370.5	9783.3	9546.9	9546.9
17.5°	19757.3	19025.2	17523.0	15387.9	13321.5	11155.9	9531.7	8837.8	8593.8	8593.8	8662.4
20°	19780.1	19154.9	16874.9	14312.8	11537.1	9394.4	8212.5	7960.9	8067.6	8105.7	8143.9
22.5°	19909.8	18727.8	16242.0	13130.8	9882.4	8037.1	7457.6	7465.2	7655.8	7861.7	7823.6
25°	20069.9	18560.1	15471.8	11956.5	8616.6	7373.7	7190.7	7167.8	7312.7	7419.5	7434.7
27.5°	19932.6	18270.3	14686.4	10492.5	7579.6	6931.4	6893.3	6908.6	6954.3	7167.8	7099.2
30°	20382.5	18354.2	13702.7	9264.8	7007.7	6786.6	6740.8	6717.9	6786.6	6847.6	6794.2
32.5°	20939.2	18056.8	12970.7	8082.9	6725.6	6679.8	6588.3	6557.8	6595.9	6534.9	6565.4
35°	21183.2	18003.4	12017.5	7236.4	6504.4	6466.3	6412.9	6405.3	6412.9	6359.5	6313.8
37.5°	21320.5	18255.1	10927.1	6847.6	6367.2	6405.3	6283.3	6268.0	6130.8	6161.3	6184.2
40°	21556.8	17866.2	10042.6	6473.9	6283.3	6207.0	6100.3	6077.4	5985.9	5932.5	5985.9
42.5°	21213.7	17751.8	9173.3	6313.8	6161.3	6077.4	6001.1	5871.5	5841.0	5795.3	5764.8
45°	20939.2	17096.0	8395.5	6115.5	6016.4	5970.6	5825.8	5688.5	5574.1	5619.9	5551.2
47.5°	21145.1	16867.3	7625.3	5947.8	5818.1	5764.8	5619.9	5513.1	5398.7	5345.4	5330.1
50°	21968.6	17294.3	6977.2	5825.8	5650.4	5619.9	5429.2	5307.2	5200.5	5162.4	5177.6
52.5°	23935.9	18461.0	6534.9	5574.1	5490.2	5353.0	5246.2	5093.7	5025.1	4903.1	4979.3
55°	26429.4	20359.7	6420.5	5337.7	5292.0	5170.0	5025.1	4910.7	4781.1	4682.0	4659.1
56°	27230.1	21267.1	6329.0	5246.2	5170.0	5101.4	4910.7	4842.1	4636.2	4613.3	4598.1
57.5°	27878.2	22067.7	6344.3	5070.9	4994.6	4933.6	4819.2	4651.5	4514.2	4430.3	4468.5
60°	26414.2	20657.1	6054.5	4804.0	4788.7	4674.3	4514.2	4437.9	4270.2	4171.1	4148.2
62.5°	19635.3	14023.0	4910.7	4460.8	4453.2	4331.2	4148.2	4064.3	4033.8	3896.5	3896.5
65°	11308.4	8792.0	4247.3	4178.7	4117.7	3995.7	3812.7	3744.0	3667.8	3622.0	3583.9
67.5°	4826.8	4560.0	3858.4	3850.8	3782.2	3629.7	3446.7	3339.9	3240.8	3149.3	3195.0
70°	3500.0	3553.4	3484.8	3446.7	3362.8	3172.1	3012.0	2882.4	2729.9	2668.9	2714.6
72.5°	2775.6	2890.0	2989.1	2996.8	2897.6	2676.5	2501.1	2325.7	2158.0	2074.1	2112.2
75°	2104.6	2180.8	2280.0	2302.9	2158.0	2005.5	1837.7	1654.7	1525.1	1425.9	1441.2
77.5°	1517.4	1502.2	1593.7	1578.4	1509.8	1403.1	1250.6	1082.8	937.9	846.4	854.0
80°	1037.0	1059.9	1113.3	1105.7	1021.8	953.2	838.8	701.5	594.8	518.5	503.3
82.5°	724.4	762.5	808.3	770.2	701.5	632.9	549.0	449.9	366.0	305.0	289.8
85°	259.3	297.4	343.1	366.0	388.9	373.6	312.6	251.6	183.0	152.5	144.9
87.5°	53.4	61.0	68.6	68.6	68.6	61.0	53.4	53.4	45.8	22.9	22.9
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)