

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: P534246

Luminaire Tested: **GALN-SA9D-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49196 lumens
Efficiency: N/A
Efficacy: 89.1 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

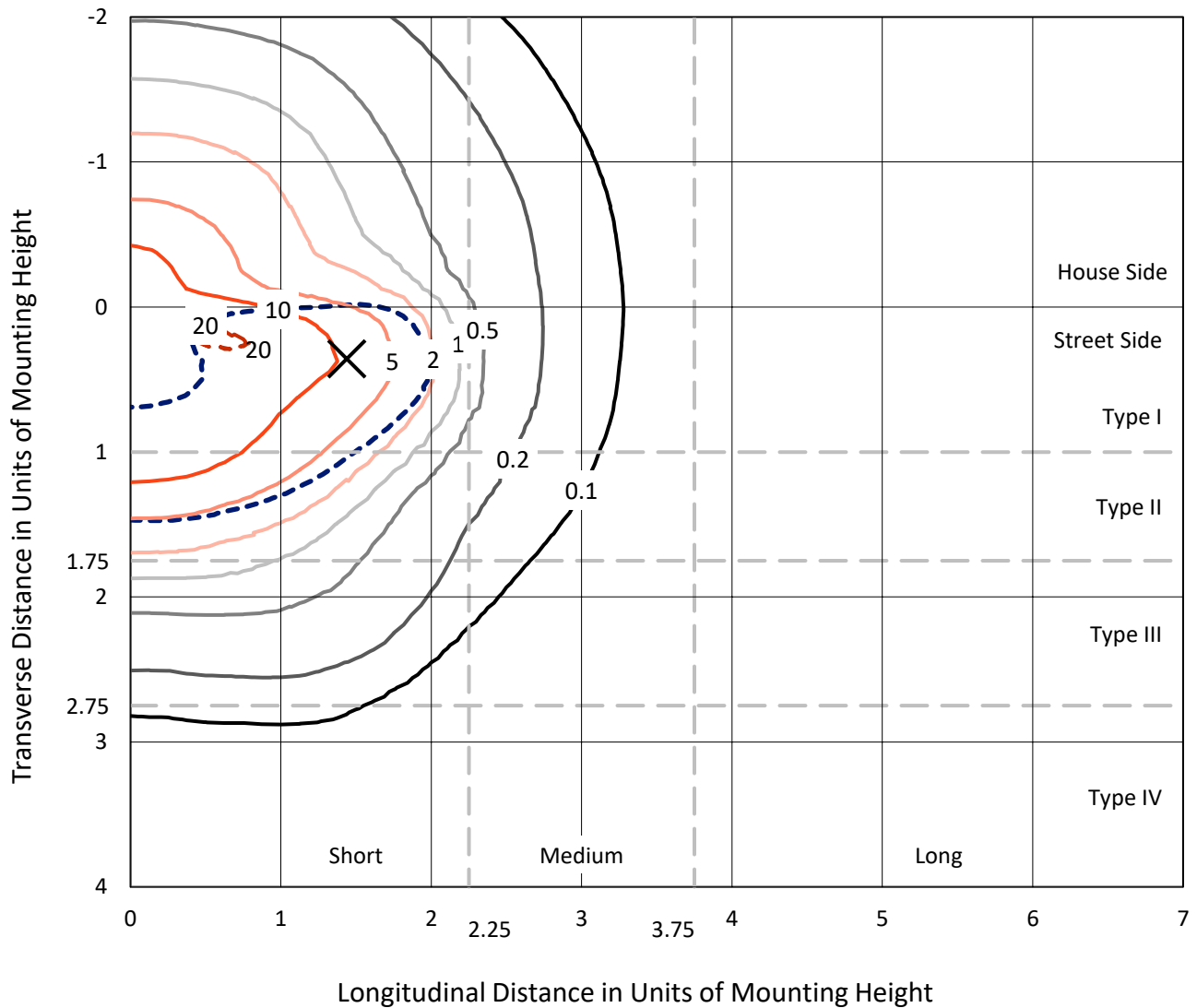
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

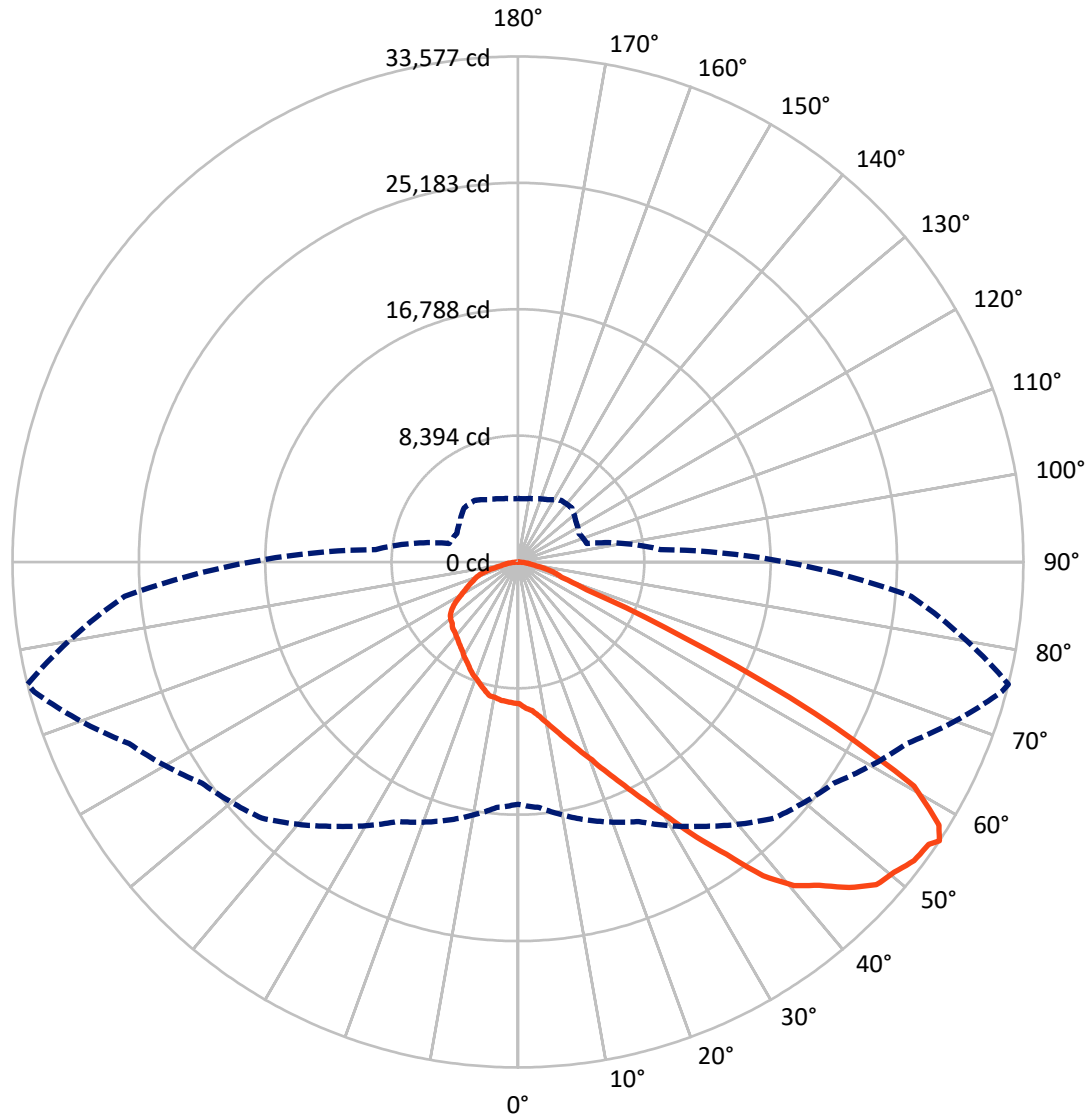
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13227.3	0.0	13227.3
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	35968.7	0.0	35968.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	49196.0	0.0	49196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.5	1.9
10°-20°	2932.4	6.0
20°-30°	5128.4	10.4
30°-40°	8029.5	16.3
40°-50°	11680.7	23.7
50°-60°	12837.8	26.1
60°-70°	5730.2	11.6
70°-80°	1655.1	3.4
80°-90°	268.5	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°	49196.0	100.0
0°-180°	49196.0	100.0

Coefficient of Utilization



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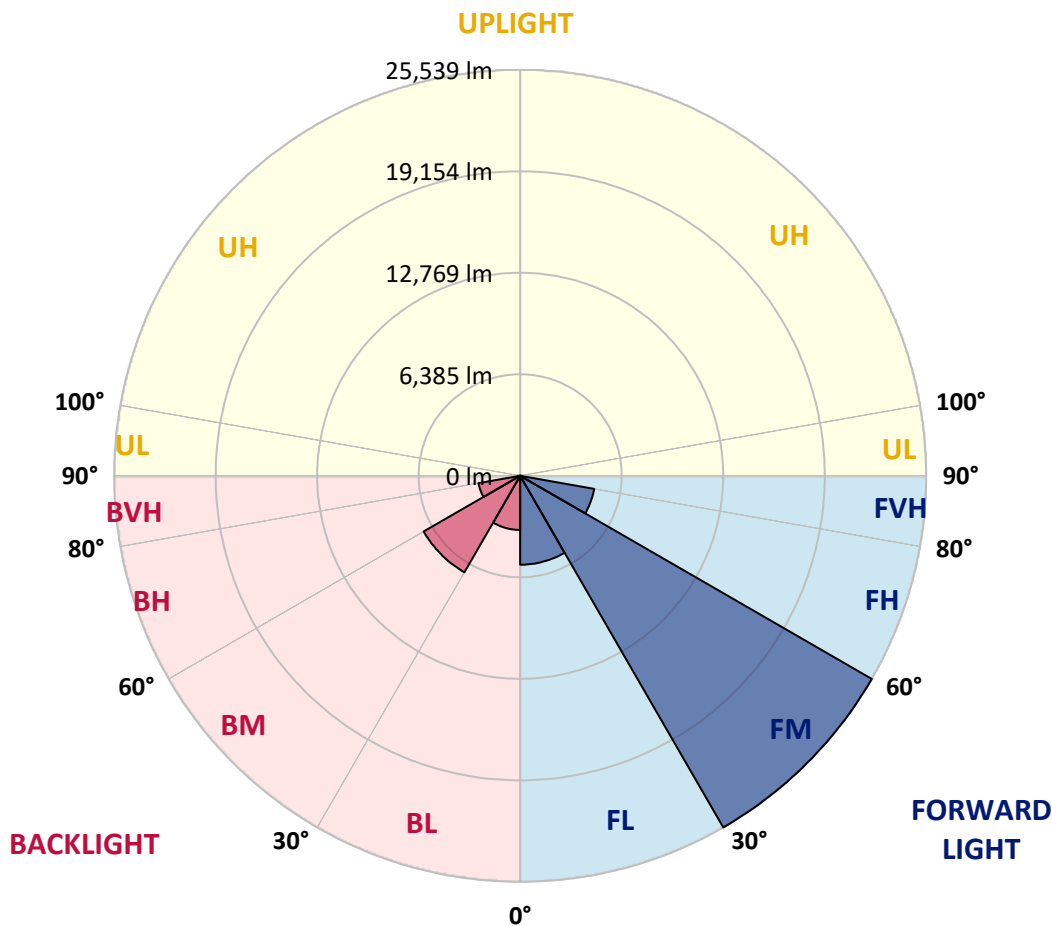
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5590.6	11.4			
FM (30°-60°)	25538.6	51.9			
FH (60°-80°)	4724.0	9.6			G2/5000
FVH (80°-90°)	115.6	0.2			G2/225
BL (0°-30°)	3403.6	6.9	B4/5000		
BM (30°-60°)	7009.4	14.2	B4/8500		
BH (60°-80°)	2661.4	5.4	B4/5000		G4/5000
BVH (80°-90°)	152.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0
2.5°	10369.6	10203.8	10191.1	10146.4	10171.9	10057.1	9936.0	9776.5	9610.7	9712.8	9470.4
5°	11096.7	10873.4	10962.7	10809.7	10828.8	10675.7	10427.0	10242.1	10038.0	9916.8	9744.6
7.5°	11351.7	11370.9	11434.7	11409.1	11281.6	11281.6	11115.8	10790.5	10433.4	10363.3	10076.3
10°	11696.1	11702.5	11632.4	11651.5	11830.1	11747.1	11600.5	11460.2	11001.0	10918.1	10407.9
12.5°	11817.3	11702.5	11817.3	11919.3	12129.8	12244.6	12212.7	12110.7	11619.6	11562.2	10816.0
15°	11836.4	11766.3	11861.9	12091.5	12276.5	12761.2	13003.5	12933.3	12282.8	12289.2	11275.2
17.5°	11747.1	11842.8	11881.1	12078.8	12506.1	12958.8	13660.4	13756.0	13220.3	13137.4	11855.6
20°	11868.3	11798.2	11849.2	12027.8	12595.3	13303.2	14221.6	14852.9	14100.4	14043.0	12455.0
22.5°	12333.9	12238.2	12225.5	12340.2	12748.4	13481.8	14814.7	15949.8	15171.8	15203.7	13201.2
25°	12697.4	12748.4	12703.8	12697.4	12952.5	13749.6	15599.1	17257.2	16625.8	16440.9	14081.3
27.5°	13322.4	13443.5	13354.2	13475.4	13418.0	14151.4	16160.3	18704.9	18194.7	17946.0	14878.4
30°	14189.7	14253.5	14170.6	14170.6	13998.4	14712.6	16670.5	20216.3	20005.9	19667.9	15815.9
32.5°	15331.2	15426.9	15261.1	15165.4	15139.9	15548.1	17588.8	21708.6	22065.8	21778.8	17059.5
35°	16842.7	16785.3	16587.6	16498.3	16153.9	16829.9	18953.6	23424.1	24361.6	23851.4	18564.6
37.5°	18175.6	18086.3	18073.5	17576.1	17659.0	18213.8	20114.3	24725.1	26587.3	26440.6	20152.5
40°	19419.1	19502.0	19636.0	19355.4	19227.8	19840.1	21466.3	25720.0	28315.6	28258.2	21377.0
42.5°	20752.0	20675.5	20911.5	20675.5	20484.2	21351.5	22933.1	26408.8	29833.4	29361.5	22658.9
45°	22684.4	22442.0	22524.9	22544.1	22403.8	22722.6	23538.9	26906.2	30898.4	30847.4	23596.3
47.5°	24297.8	24304.2	24163.9	24055.5	23628.2	23947.1	24214.9	27218.7	32122.9	32040.0	23959.8
50°	24897.3	24814.4	25222.6	25458.5	25484.0	24833.5	24744.3	27390.9	32767.0	32403.5	24323.4
52.5°	22741.8	22818.3	23462.4	24865.4	25675.4	25745.5	25362.9	27748.0	33028.5	32952.0	24616.7
55°	18303.1	18673.0	19731.6	21351.5	23271.1	25382.0	26032.5	28117.9	33168.8	33105.0	25917.7
56°	16090.1	16377.1	17754.6	19023.7	21434.4	24061.9	25611.6	28513.3	33277.2	33576.9	26223.8
57.5°	12952.5	13284.1	14272.6	15713.9	18558.2	21549.2	24450.9	28028.6	32856.3	32971.1	26447.0
60°	8099.3	8131.2	9317.4	10267.6	12270.1	15190.9	18660.2	24387.1	30407.4	30241.6	23755.8
62.5°	5312.4	5318.7	6396.5	7174.6	8086.5	8756.2	10981.9	16173.1	22435.6	22142.3	16912.8
65°	3730.8	3813.7	4649.1	5688.6	6058.5	5707.8	5637.6	8526.6	12531.6	12110.7	9087.8
67.5°	2729.5	2735.9	3475.7	4591.7	5127.4	4343.0	3526.7	4164.4	4961.6	4948.9	4209.1
70°	1804.8	1881.3	2448.9	3431.0	4043.3	3488.4	2882.6	2978.2	3156.8	3156.8	3131.3
72.5°	1052.3	1122.4	1498.7	2174.7	2270.3	2181.1	2283.1	2551.0	2665.7	2659.4	2627.5
75°	599.5	631.4	714.3	905.6	1128.8	1332.9	1677.3	1932.3	2047.1	2117.3	2034.4
77.5°	350.8	369.9	420.9	516.6	586.7	720.6	912.0	1090.5	1243.6	1224.5	1237.2
80°	184.9	184.9	236.0	306.1	408.2	510.2	605.9	707.9	790.8	809.9	829.1
82.5°	108.4	114.8	153.1	223.2	293.4	363.5	465.5	535.7	612.2	618.6	631.4
85°	57.4	63.8	95.7	146.7	197.7	223.2	229.6	216.8	236.0	223.2	255.1
87.5°	19.1	19.1	31.9	25.5	25.5	31.9	38.3	38.3	51.0	51.0	51.0
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°	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0	9413.0
2.5°	9464.0	9464.0	9355.6	9151.6	9119.7	9036.8	8960.2	8953.9	8896.5	8845.4	8819.9
5°	9642.6	9444.9	9285.5	9100.5	8883.7	8781.7	8666.9	8539.3	8488.3	8539.3	8532.9
7.5°	9846.7	9680.9	9202.6	8858.2	8609.5	8507.4	8379.9	8246.0	8258.7	8258.7	8169.4
10°	10044.4	9821.2	9055.9	8615.8	8252.3	8175.8	8105.7	8156.7	8220.5	8233.2	8175.8
12.5°	10376.0	9872.2	8985.7	8373.5	8143.9	7978.1	8022.8	8163.1	8297.0	8258.7	8303.4
15°	10624.7	9916.8	8666.9	8124.8	7837.8	7914.3	8073.8	8169.4	8392.6	8367.1	8411.8
17.5°	10867.1	9942.3	8354.4	7793.2	7672.0	7882.5	8003.6	8277.8	8348.0	8501.1	8558.5
20°	11364.5	9993.4	8035.5	7589.1	7550.8	7793.2	8003.6	8131.2	8284.2	8418.2	8418.2
22.5°	11619.6	9967.9	7825.1	7321.2	7442.4	7595.5	7786.8	8003.6	8003.6	8131.2	8137.5
25°	11938.5	9865.8	7493.4	7193.7	7283.0	7429.7	7646.5	7570.0	7652.9	7652.9	7754.9
27.5°	12302.0	9649.0	7206.4	6964.1	7142.7	7302.1	7334.0	7283.0	7187.3	7174.6	7136.3
30°	12595.3	9381.1	6996.0	6887.6	7034.3	7123.5	7021.5	6913.1	6747.3	6734.5	6645.2
32.5°	12997.1	9049.5	6734.5	6696.3	6862.1	6868.4	6836.6	6670.7	6428.4	6326.4	6224.3
35°	13673.1	8858.2	6536.8	6594.2	6645.2	6626.1	6568.7	6390.1	6147.8	6103.2	6064.9
37.5°	14170.6	8717.9	6332.7	6402.9	6447.5	6473.0	6300.9	6103.2	6109.5	6020.3	5994.7
40°	14731.8	8628.6	6166.9	6198.8	6205.2	6288.1	6077.6	5982.0	6026.6	5969.2	6007.5
42.5°	15452.4	8654.1	5994.7	5969.2	6090.4	6058.5	5956.5	5828.9	5854.4	5682.3	5707.8
45°	15835.1	8826.3	5892.7	5777.9	5911.8	5905.5	5771.5	5650.4	5497.3	5165.7	5178.4
47.5°	16090.1	8870.9	5650.4	5573.8	5714.1	5797.0	5644.0	5363.4	5146.6	4910.6	4853.2
50°	16351.6	8953.9	5535.6	5376.1	5433.5	5631.2	5439.9	5172.1	4961.6	4751.2	4783.0
52.5°	16581.2	9113.3	5312.4	5076.4	5178.4	5395.3	5293.2	4968.0	4738.4	4566.2	4515.2
55°	17601.6	9470.4	4936.1	4630.0	4872.3	5146.6	5089.2	4693.8	4445.0	4355.8	4343.0
56°	17761.0	9483.2	4738.4	4476.9	4700.1	5063.6	4993.5	4572.6	4349.4	4209.1	4215.5
57.5°	17786.5	9330.1	4457.8	4336.6	4527.9	4942.5	4853.2	4476.9	4170.8	4043.3	4005.0
60°	15650.1	7283.0	4107.0	4030.5	4253.7	4572.6	4540.7	4215.5	3871.1	3724.4	3794.5
62.5°	10669.4	5337.9	3832.8	3820.1	3934.8	4247.3	4164.4	3871.1	3584.1	3488.4	3443.8
65°	6211.6	4049.6	3565.0	3513.9	3609.6	3775.4	3832.8	3526.7	3227.0	3163.2	3144.1
67.5°	3667.0	3348.1	3220.6	3137.7	3105.8	3207.8	3252.5	3073.9	2774.2	2684.9	2761.4
70°	3067.5	2978.2	2984.6	2844.3	2767.8	2697.6	2659.4	2499.9	2251.2	2136.4	2104.5
72.5°	2646.6	2608.4	2582.8	2455.3	2385.1	2225.7	2059.9	1900.5	1715.5	1619.9	1626.2
75°	2021.6	2008.9	2021.6	1957.9	1836.7	1709.1	1556.1	1352.0	1211.7	1090.5	1116.0
77.5°	1205.3	1243.6	1262.7	1237.2	1186.2	1071.4	975.7	841.8	707.9	612.2	599.5
80°	829.1	860.9	892.8	860.9	809.9	727.0	625.0	522.9	427.3	376.3	363.5
82.5°	631.4	663.2	682.4	650.5	586.7	497.4	427.3	357.1	280.6	229.6	216.8
85°	229.6	261.5	255.1	306.1	331.6	318.9	274.2	210.5	159.4	114.8	108.4
87.5°	63.8	57.4	63.8	63.8	63.8	57.4	51.0	51.0	51.0	31.9	25.5
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)