

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: P534064

Luminaire Tested: **GALN-SA9C-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534064
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-SA9C-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA 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: 49800 lumens
Efficiency: N/A
Efficacy: 103.5 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

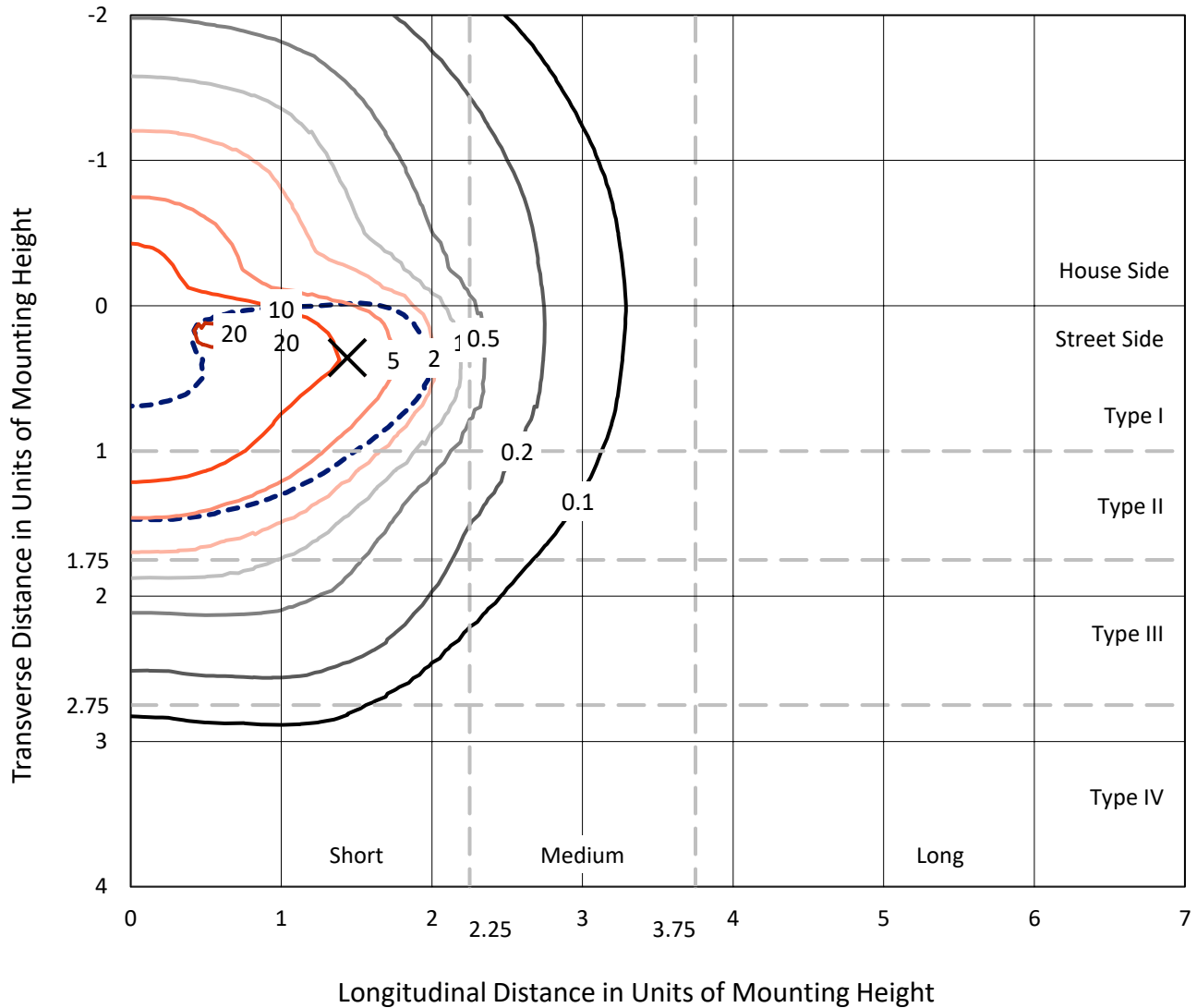
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

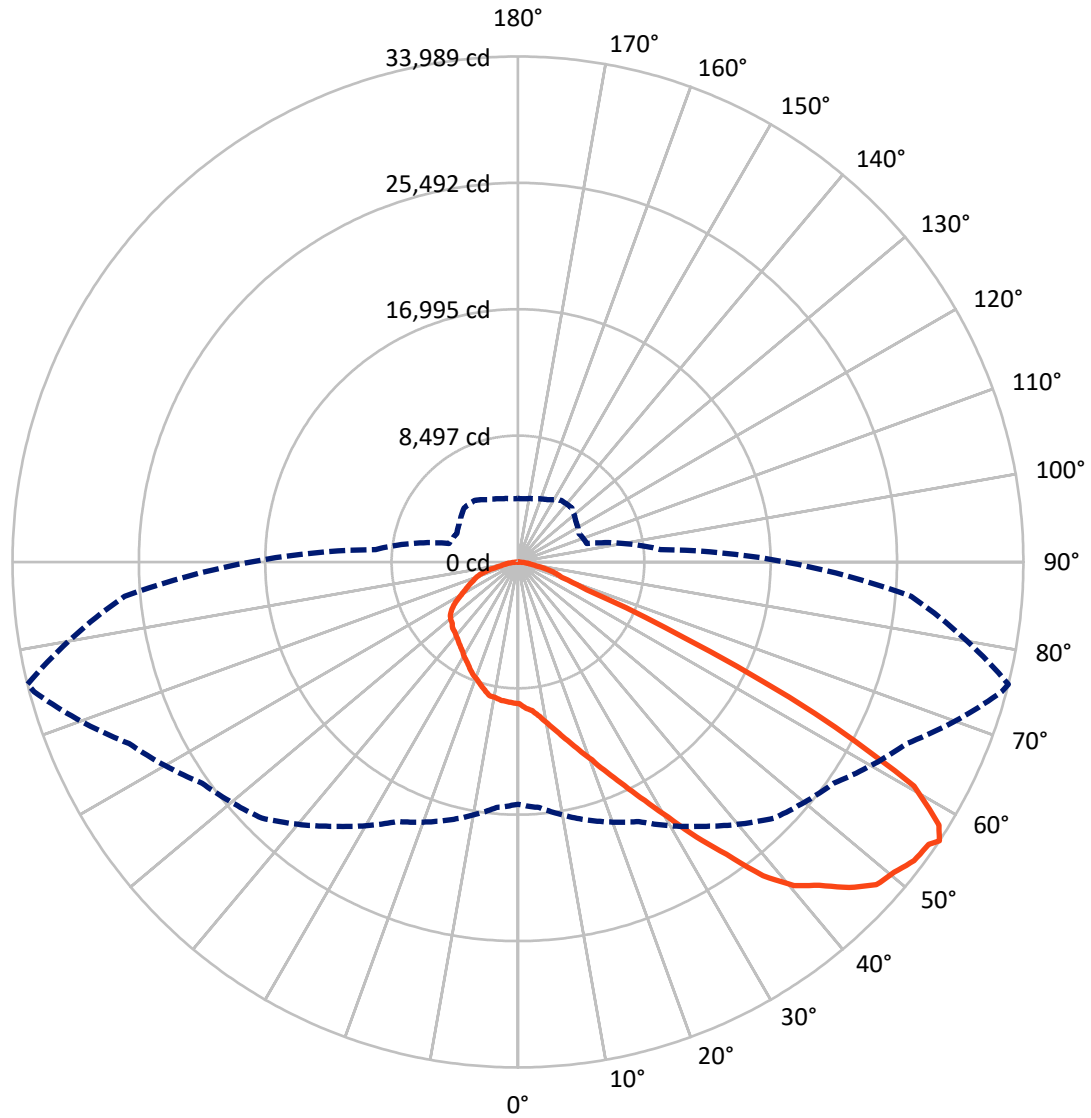
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 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	13389.7	0.0	13389.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	36410.3	0.0	36410.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	49800.0	0.0	49800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	945.0	1.9
10°-20°	2968.4	6.0
20°-30°	5191.3	10.4
30°-40°	8128.1	16.3
40°-50°	11824.1	23.7
50°-60°	12995.4	26.1
60°-70°	5800.6	11.6
70°-80°	1675.4	3.4
80°-90°	271.8	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°	49800.0	100.0
0°-180°	49800.0	100.0

Coefficient of Utilization

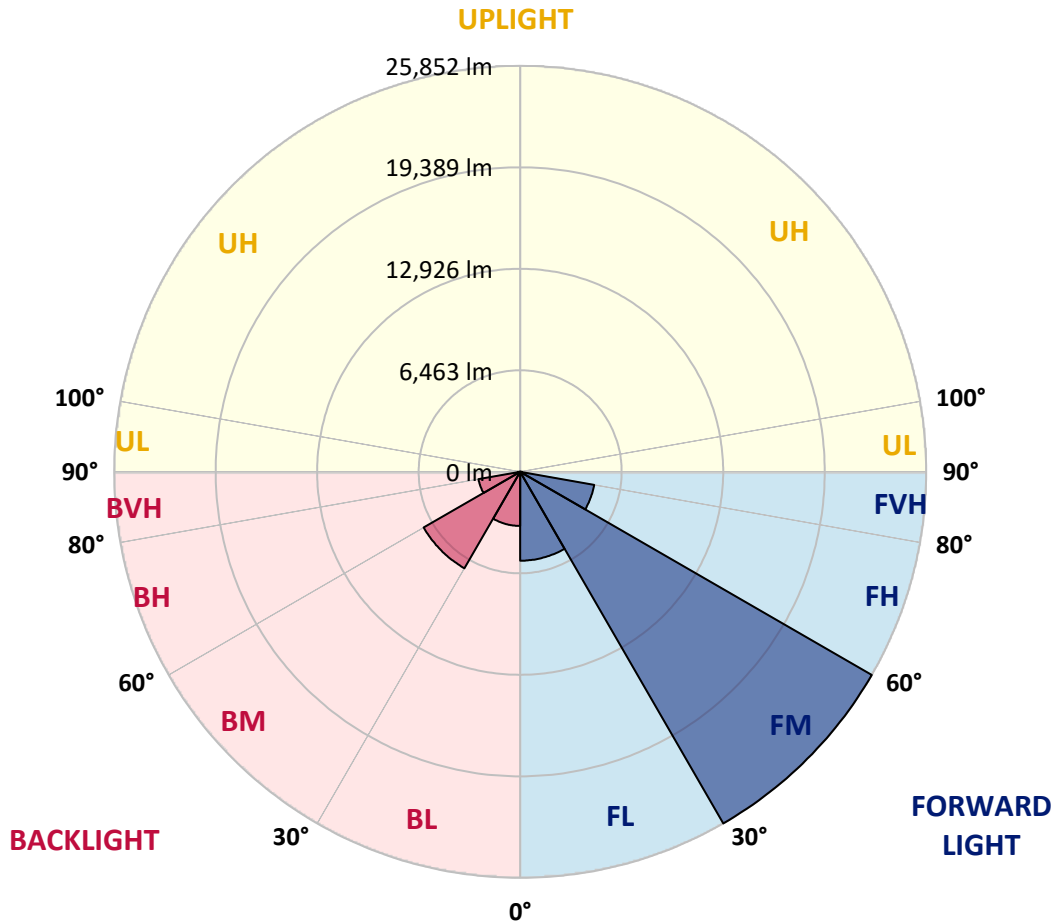


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5659.2	11.4			
FM (30°-60°)	25852.1	51.9			
FH (60°-80°)	4782.0	9.6			G2/5000
FVH (80°-90°)	117.0	0.2			G2/225
BL (0°-30°)	3445.4	6.9	B4/5000		
BM (30°-60°)	7095.5	14.2	B4/8500		
BH (60°-80°)	2694.0	5.4	B4/5000		G4/5000
BVH (80°-90°)	154.8	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°	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6
2.5°	10496.9	10329.1	10316.2	10271.0	10296.8	10180.6	10058.0	9896.6	9728.7	9832.0	9586.7
5°	11232.9	11006.9	11097.3	10942.4	10961.8	10806.8	10555.0	10367.8	10161.2	10038.6	9864.3
7.5°	11491.1	11510.5	11575.0	11549.2	11420.1	11420.1	11252.3	10923.0	10561.5	10490.5	10200.0
10°	11839.7	11846.2	11775.2	11794.5	11975.3	11891.4	11742.9	11600.9	11136.1	11052.1	10535.7
12.5°	11962.4	11846.2	11962.4	12065.7	12278.7	12394.9	12362.6	12259.3	11762.3	11704.2	10948.8
15°	11981.8	11910.7	12007.6	12240.0	12427.2	12917.8	13163.1	13092.1	12433.6	12440.1	11413.7
17.5°	11891.4	11988.2	12026.9	12227.1	12659.6	13118.0	13828.1	13924.9	13382.6	13298.7	12001.1
20°	12014.0	11943.0	11994.7	12175.4	12750.0	13466.6	14396.2	15035.3	14273.5	14215.4	12608.0
22.5°	12485.3	12388.5	12375.5	12491.7	12904.9	13647.3	14996.6	16145.7	15358.1	15390.4	13363.3
25°	12853.3	12904.9	12859.7	12853.3	13111.5	13918.5	15790.6	17469.1	16830.0	16642.8	14254.2
27.5°	13485.9	13608.6	13518.2	13640.9	13582.8	14325.2	16358.7	18934.5	18418.1	18166.3	15061.1
30°	14363.9	14428.5	14344.5	14344.5	14170.2	14893.3	16875.2	20464.5	20251.5	19909.3	16010.1
32.5°	15519.5	15616.3	15448.5	15351.6	15325.8	15739.0	17804.8	21975.2	22336.7	22046.2	17269.0
35°	17049.5	16991.4	16791.2	16700.9	16352.2	17036.6	19186.3	23711.7	24660.7	24144.3	18792.5
37.5°	18398.7	18308.3	18295.4	17791.9	17875.8	18437.4	20361.2	25028.7	26913.7	26765.3	20400.0
40°	19657.6	19741.5	19877.1	19593.0	19463.9	20083.6	21729.8	26035.8	28663.2	28605.1	21639.5
42.5°	21006.8	20929.3	21168.2	20929.3	20735.7	21613.6	23214.6	26733.0	30199.7	29722.0	22937.0
45°	22962.9	22717.6	22801.5	22820.8	22678.8	23001.6	23827.9	27236.5	31277.8	31226.1	23886.0
47.5°	24596.2	24602.6	24460.6	24350.8	23918.3	24241.1	24512.2	27552.9	32517.3	32433.4	24254.0
50°	25203.0	25119.1	25532.2	25771.1	25796.9	25138.4	25048.1	27727.2	33169.3	32801.3	24622.0
52.5°	23021.0	23098.4	23750.5	25170.7	25990.6	26061.6	25674.3	28088.7	33434.0	33356.5	24918.9
55°	18527.8	18902.2	19973.9	21613.6	23556.8	25693.6	26352.1	28463.1	33576.0	33511.5	26235.9
56°	16287.7	16578.2	17972.6	19257.3	21697.6	24357.3	25926.0	28863.4	33685.8	33989.2	26545.8
57.5°	13111.5	13447.2	14447.8	15906.8	18786.0	21813.8	24751.1	28372.7	33259.7	33375.9	26771.7
60°	8198.7	8231.0	9431.8	10393.7	12420.7	15377.4	18889.3	24686.5	30780.7	30612.9	24047.4
62.5°	5377.6	5384.0	6475.1	7262.6	8185.8	8863.7	11116.7	16371.6	22711.1	22414.1	17120.5
65°	3776.6	3860.5	4706.2	5758.5	6132.9	5777.8	5706.8	8631.3	12685.4	12259.3	9199.4
67.5°	2763.0	2769.5	3518.3	4648.1	5190.4	4396.3	3570.0	4215.6	5022.5	5009.6	4260.8
70°	1827.0	1904.4	2479.0	3473.2	4092.9	3531.3	2918.0	3014.8	3195.6	3195.6	3169.7
72.5°	1065.2	1136.2	1517.1	2201.4	2298.2	2207.8	2311.1	2582.3	2698.5	2692.0	2659.7
75°	606.8	639.1	723.0	916.7	1142.7	1349.2	1697.8	1956.1	2072.3	2143.3	2059.4
77.5°	355.1	374.4	426.1	522.9	593.9	729.5	923.2	1103.9	1258.9	1239.5	1252.4
80°	187.2	187.2	238.9	309.9	413.2	516.5	613.3	716.6	800.5	819.9	839.2
82.5°	109.7	116.2	154.9	225.9	297.0	368.0	471.3	542.3	619.7	626.2	639.1
85°	58.1	64.6	96.8	148.5	200.1	225.9	232.4	219.5	238.9	225.9	258.2
87.5°	19.4	19.4	32.3	25.8	25.8	32.3	38.7	38.7	51.6	51.6	51.6
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°	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6	9528.6
2.5°	9580.2	9580.2	9470.5	9263.9	9231.6	9147.7	9070.2	9063.8	9005.7	8954.0	8928.2
5°	9761.0	9560.9	9399.5	9212.3	8992.8	8889.5	8773.3	8644.2	8592.5	8644.2	8637.7
7.5°	9967.6	9799.7	9315.6	8966.9	8715.2	8611.9	8482.8	8347.2	8360.1	8360.1	8269.7
10°	10167.7	9941.8	9167.1	8721.6	8353.7	8276.2	8205.2	8256.8	8321.4	8334.3	8276.2
12.5°	10503.4	9993.4	9096.1	8476.3	8243.9	8076.1	8121.3	8263.3	8398.8	8360.1	8405.3
15°	10755.2	10038.6	8773.3	8224.5	7934.0	8011.5	8172.9	8269.7	8495.7	8469.9	8515.0
17.5°	11000.5	10064.4	8456.9	7888.8	7766.2	7979.2	8101.9	8379.5	8450.5	8605.4	8663.5
20°	11504.0	10116.1	8134.2	7682.3	7643.5	7888.8	8101.9	8231.0	8385.9	8521.5	8521.5
22.5°	11762.3	10090.2	7921.1	7411.1	7533.8	7688.7	7882.4	8101.9	8101.9	8231.0	8237.5
25°	12085.0	9986.9	7585.4	7282.0	7372.4	7520.9	7740.4	7662.9	7746.8	7746.8	7850.1
27.5°	12453.0	9767.5	7294.9	7049.6	7230.4	7391.8	7424.0	7372.4	7275.6	7262.6	7223.9
30°	12750.0	9496.3	7081.9	6972.1	7120.6	7211.0	7107.7	6998.0	6830.1	6817.2	6726.8
32.5°	13156.7	9160.6	6817.2	6778.5	6946.3	6952.8	6920.5	6752.6	6507.3	6404.0	6300.7
35°	13841.0	8966.9	6617.1	6675.2	6726.8	6707.5	6649.4	6468.6	6223.3	6178.1	6139.4
37.5°	14344.5	8824.9	6410.5	6481.5	6526.7	6552.5	6378.2	6178.1	6184.5	6094.2	6068.3
40°	14912.6	8734.5	6242.6	6274.9	6281.4	6365.3	6152.3	6055.4	6100.6	6042.5	6081.3
42.5°	15642.1	8760.4	6068.3	6042.5	6165.2	6132.9	6029.6	5900.5	5926.3	5752.0	5777.8
45°	16029.5	8934.7	5965.1	5848.9	5984.4	5978.0	5842.4	5719.7	5564.8	5229.1	5242.0
47.5°	16287.7	8979.9	5719.7	5642.3	5784.3	5868.2	5713.3	5429.2	5209.7	4970.9	4912.8
50°	16552.4	9063.8	5603.5	5442.1	5500.2	5700.4	5506.7	5235.6	5022.5	4809.5	4841.8
52.5°	16784.8	9225.2	5377.6	5138.7	5242.0	5461.5	5358.2	5029.0	4796.6	4622.3	4570.6
55°	17817.7	9586.7	4996.7	4686.8	4932.1	5209.7	5151.6	4751.4	4499.6	4409.2	4396.3
56°	17979.1	9599.6	4796.6	4531.9	4757.8	5125.8	5054.8	4628.7	4402.8	4260.8	4267.2
57.5°	18004.9	9444.7	4512.5	4389.9	4583.5	5003.2	4912.8	4531.9	4222.0	4092.9	4054.2
60°	15842.3	7372.4	4157.5	4080.0	4305.9	4628.7	4596.4	4267.2	3918.6	3770.1	3841.1
62.5°	10800.4	5403.4	3879.9	3867.0	3983.2	4299.5	4215.6	3918.6	3628.1	3531.3	3486.1
65°	6287.8	4099.4	3608.7	3557.1	3653.9	3821.8	3879.9	3570.0	3266.6	3202.0	3182.7
67.5°	3712.0	3389.2	3260.1	3176.2	3143.9	3247.2	3292.4	3111.6	2808.2	2717.8	2795.3
70°	3105.2	3014.8	3021.3	2879.2	2801.8	2730.8	2692.0	2530.6	2278.9	2162.7	2130.4
72.5°	2679.1	2640.4	2614.6	2485.4	2414.4	2253.0	2085.2	1923.8	1736.6	1639.7	1646.2
75°	2046.5	2033.5	2046.5	1981.9	1859.2	1730.1	1575.2	1368.6	1226.6	1103.9	1129.7
77.5°	1220.1	1258.9	1278.2	1252.4	1200.8	1084.6	987.7	852.2	716.6	619.7	606.8
80°	839.2	871.5	903.8	871.5	819.9	735.9	632.7	529.4	432.5	380.9	368.0
82.5°	639.1	671.4	690.8	658.5	593.9	503.5	432.5	361.5	284.1	232.4	219.5
85°	232.4	264.7	258.2	309.9	335.7	322.8	277.6	213.0	161.4	116.2	109.7
87.5°	64.6	58.1	64.6	64.6	64.6	58.1	51.6	51.6	51.6	32.3	25.8
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)