

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: P533362

Luminaire Tested: **GALN-SA8D-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533362
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-SA8D-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 48810 lumens
Efficiency: N/A
Efficacy: 99.0 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

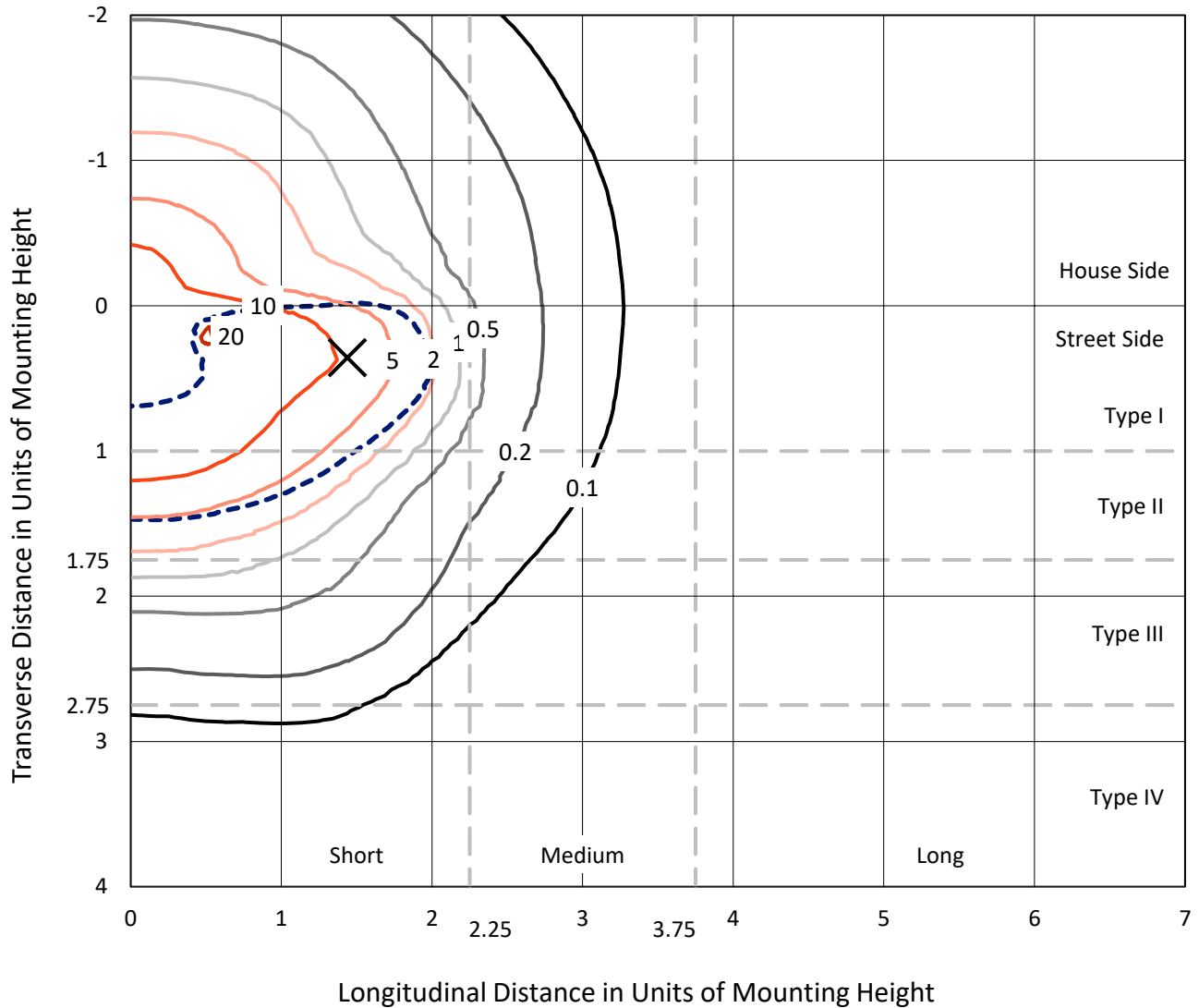
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

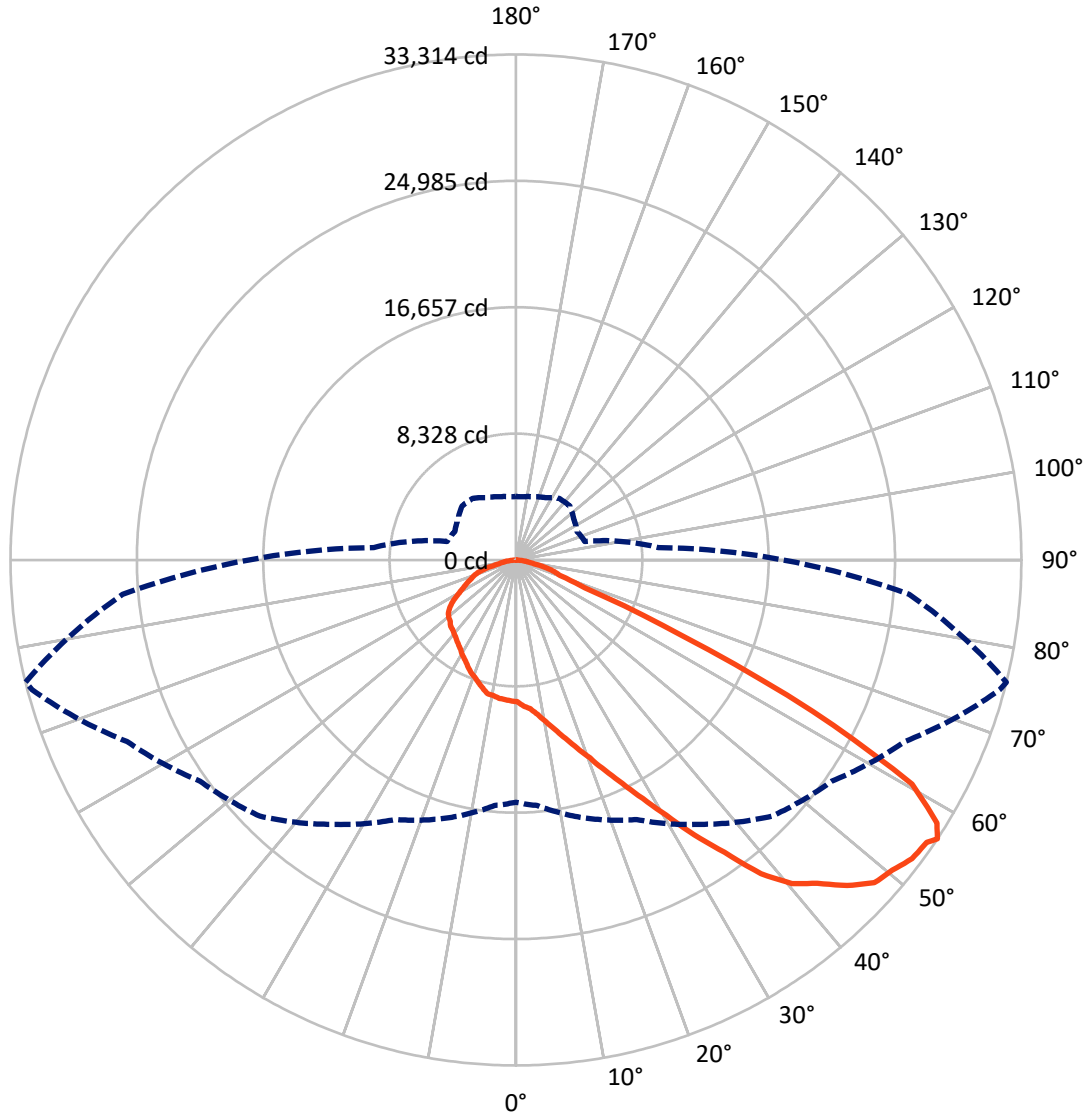
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 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	13123.5	0.0	13123.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	35686.5	0.0	35686.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	48810.0	0.0	48810.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.2	1.9
10°-20°	2909.4	6.0
20°-30°	5088.1	10.4
30°-40°	7966.5	16.3
40°-50°	11589.0	23.7
50°-60°	12737.1	26.1
60°-70°	5685.3	11.6
70°-80°	1642.1	3.4
80°-90°	266.4	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°	48810.0	100.0
0°-180°	48810.0	100.0

Coefficient of Utilization



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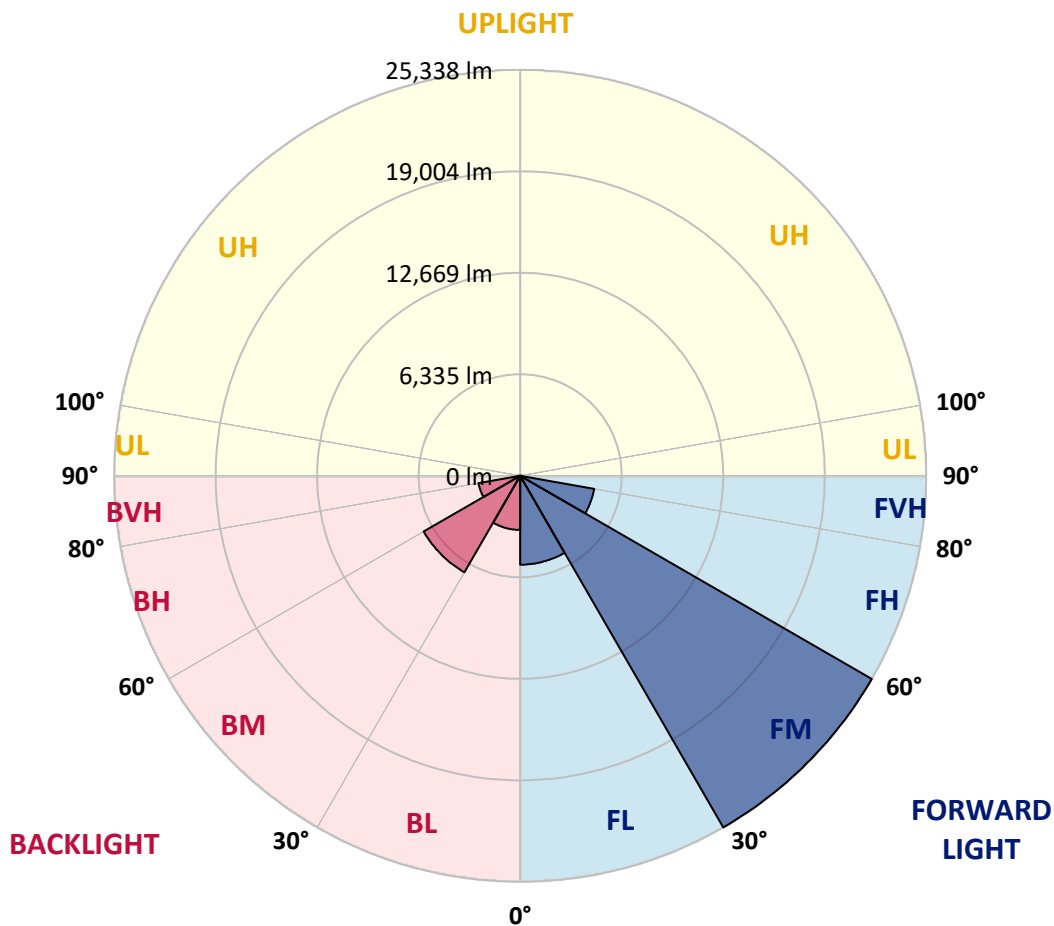
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5546.7	11.4			
FM	(30°-60°)	25338.2	51.9			
FH	(60°-80°)	4686.9	9.6			G2/5000
FVH	(80°-90°)	114.7	0.2			G2/225
BL	(0°-30°)	3376.9	6.9	B4/5000		
BM	(30°-60°)	6954.4	14.2	B4/8500		
BH	(60°-80°)	2640.5	5.4	B4/5000		G4/5000
BVH	(80°-90°)	151.7	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°	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2
2.5°	10288.3	10123.8	10111.1	10066.8	10092.1	9978.2	9858.0	9699.8	9535.3	9636.6	9396.1
5°	11009.6	10788.1	10876.7	10724.9	10743.8	10592.0	10345.2	10161.7	9959.2	9839.0	9668.2
7.5°	11262.7	11281.7	11344.9	11319.6	11193.1	11193.1	11028.6	10705.9	10351.5	10281.9	9997.2
10°	11604.4	11610.7	11541.1	11560.1	11737.2	11655.0	11509.4	11370.2	10914.7	10832.4	10326.2
12.5°	11724.6	11610.7	11724.6	11825.8	12034.6	12148.5	12116.9	12015.6	11528.4	11471.5	10731.2
15°	11743.6	11674.0	11768.9	11996.7	12180.1	12661.0	12901.5	12831.9	12186.5	12192.8	11186.8
17.5°	11655.0	11749.9	11787.9	11984.0	12407.9	12857.2	13553.2	13648.1	13116.6	13034.3	11762.5
20°	11775.2	11705.6	11756.2	11933.4	12496.5	13198.8	14110.0	14736.4	13989.8	13932.8	12357.3
22.5°	12237.1	12142.2	12129.5	12243.4	12648.4	13376.0	14698.4	15824.7	15052.8	15084.4	13097.6
25°	12597.8	12648.4	12604.1	12597.8	12850.8	13641.8	15476.7	17121.8	16495.4	16311.9	13970.8
27.5°	13217.8	13338.1	13249.5	13369.7	13312.7	14040.4	16033.5	18558.1	18051.9	17805.2	14761.7
30°	14078.4	14141.6	14059.4	14059.4	13888.5	14597.2	16539.7	20057.7	19848.9	19513.5	15691.8
32.5°	15210.9	15305.9	15141.3	15046.4	15021.1	15426.1	17450.8	21538.3	21892.6	21607.9	16925.7
35°	16710.5	16653.6	16457.4	16368.9	16027.2	16697.9	18804.9	23240.4	24170.5	23664.3	18418.9
37.5°	18032.9	17944.4	17931.7	17438.2	17520.4	18070.9	19956.5	24531.1	26378.7	26233.2	19994.4
40°	19266.8	19349.0	19481.9	19203.5	19077.0	19684.4	21297.9	25518.2	28093.4	28036.5	21209.3
42.5°	20589.2	20513.3	20747.4	20513.3	20323.4	21184.0	22753.1	26201.6	29599.3	29131.1	22481.1
45°	22506.4	22265.9	22348.2	22367.2	22228.0	22544.3	23354.2	26695.1	30656.0	30605.4	23411.2
47.5°	24107.2	24113.5	23974.3	23866.8	23442.8	23759.2	24024.9	27005.1	31870.9	31788.6	23771.8
50°	24702.0	24619.7	25024.7	25258.8	25284.1	24638.7	24550.1	27176.0	32509.9	32149.3	24132.5
52.5°	22563.3	22639.3	23278.3	24670.3	25473.9	25543.5	25163.9	27530.3	32769.3	32693.4	24423.6
55°	18159.5	18526.5	19576.8	21184.0	23088.5	25182.8	25828.2	27897.3	32908.5	32845.3	25714.3
56°	15963.9	16248.6	17615.3	18874.5	21266.2	23873.1	25410.6	28289.6	33016.1	33313.5	26018.1
57.5°	12850.8	13179.9	14160.6	15590.6	18412.6	21380.1	24259.1	27808.7	32598.5	32712.4	26239.5
60°	8035.7	8067.4	9244.3	10187.0	12173.8	15071.7	18513.8	24195.8	30168.8	30004.3	23569.4
62.5°	5270.7	5277.0	6346.3	7118.3	8023.1	8687.4	10895.7	16046.2	22259.6	21968.6	16780.1
65°	3701.5	3783.8	4612.6	5644.0	6011.0	5663.0	5593.4	8459.7	12433.2	12015.6	9016.5
67.5°	2708.1	2714.4	3448.4	4555.7	5087.2	4308.9	3499.0	4131.8	4922.7	4910.0	4176.1
70°	1790.6	1866.6	2429.7	3404.1	4011.5	3461.1	2860.0	2954.9	3132.0	3132.0	3106.7
72.5°	1044.0	1113.6	1486.9	2157.6	2252.5	2164.0	2265.2	2530.9	2644.8	2638.5	2606.9
75°	594.8	626.4	708.7	898.5	1119.9	1322.4	1664.1	1917.2	2031.1	2100.7	2018.4
77.5°	348.0	367.0	417.6	512.5	582.1	715.0	904.8	1082.0	1233.8	1214.9	1227.5
80°	183.5	183.5	234.1	303.7	405.0	506.2	601.1	702.3	784.6	803.6	822.6
82.5°	107.6	113.9	151.9	221.5	291.1	360.7	461.9	531.5	607.4	613.8	626.4
85°	56.9	63.3	94.9	145.5	196.1	221.5	227.8	215.1	234.1	221.5	253.1
87.5°	19.0	19.0	31.6	25.3	25.3	31.6	38.0	38.0	50.6	50.6	50.6
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°	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2	9339.2
2.5°	9389.8	9389.8	9282.2	9079.7	9048.1	8965.9	8889.9	8883.6	8826.7	8776.0	8750.7
5°	9567.0	9370.8	9212.6	9029.1	8814.0	8712.8	8598.9	8472.3	8421.7	8472.3	8466.0
7.5°	9769.4	9604.9	9130.4	8788.7	8541.9	8440.7	8314.1	8181.3	8193.9	8193.9	8105.3
10°	9965.6	9744.1	8984.8	8548.2	8187.6	8111.7	8042.1	8092.7	8156.0	8168.6	8111.7
12.5°	10294.6	9794.7	8915.2	8307.8	8080.0	7915.5	7959.8	8099.0	8231.9	8193.9	8238.2
15°	10541.4	9839.0	8598.9	8061.0	7776.3	7852.2	8010.4	8105.3	8326.8	8301.5	8345.8
17.5°	10781.8	9864.3	8288.8	7732.0	7611.8	7820.6	7940.8	8212.9	8282.5	8434.4	8491.3
20°	11275.3	9915.0	7972.5	7529.5	7491.6	7732.0	7940.8	8067.4	8219.2	8352.1	8352.1
22.5°	11528.4	9889.6	7763.7	7263.8	7384.0	7535.9	7725.7	7940.8	7940.8	8067.4	8073.7
25°	11844.8	9788.4	7434.6	7137.2	7225.8	7371.4	7586.5	7510.6	7592.8	7592.8	7694.1
27.5°	12205.5	9573.3	7149.9	6909.5	7086.6	7244.8	7276.5	7225.8	7130.9	7118.3	7080.3
30°	12496.5	9307.5	6941.1	6833.5	6979.1	7067.6	6966.4	6858.8	6694.3	6681.7	6593.1
32.5°	12895.1	8978.5	6681.7	6643.7	6808.2	6814.6	6782.9	6618.4	6378.0	6276.7	6175.5
35°	13565.8	8788.7	6485.5	6542.5	6593.1	6574.1	6517.2	6340.0	6099.6	6055.3	6017.3
37.5°	14059.4	8649.5	6283.1	6352.7	6396.9	6422.3	6251.4	6055.3	6061.6	5973.0	5947.7
40°	14616.2	8560.9	6118.5	6150.2	6156.5	6238.8	6030.0	5935.1	5979.3	5922.4	5960.4
42.5°	15331.2	8586.2	5947.7	5922.4	6042.6	6011.0	5909.7	5783.2	5808.5	5637.7	5663.0
45°	15710.8	8757.1	5846.5	5732.6	5865.5	5859.1	5726.3	5606.0	5454.2	5125.2	5137.8
47.5°	15963.9	8801.3	5606.0	5530.1	5669.3	5751.6	5599.7	5321.3	5106.2	4872.1	4815.1
50°	16223.3	8883.6	5492.1	5334.0	5390.9	5587.0	5397.2	5131.5	4922.7	4713.9	4745.5
52.5°	16451.1	9041.8	5270.7	5036.6	5137.8	5352.9	5251.7	4929.0	4701.2	4530.4	4479.8
55°	17463.5	9396.1	4897.4	4593.7	4834.1	5106.2	5049.2	4656.9	4410.2	4321.6	4308.9
56°	17621.7	9408.8	4701.2	4441.8	4663.3	5023.9	4954.3	4536.7	4315.3	4176.1	4182.4
57.5°	17647.0	9256.9	4422.8	4302.6	4492.4	4903.7	4815.1	4441.8	4138.1	4011.5	3973.6
60°	15527.3	7225.8	4074.8	3998.9	4220.3	4536.7	4505.1	4182.4	3840.7	3695.2	3764.8
62.5°	10585.7	5296.0	3802.7	3790.1	3904.0	4214.0	4131.8	3840.7	3556.0	3461.1	3416.8
65°	6162.8	4017.9	3537.0	3486.4	3581.3	3745.8	3802.7	3499.0	3201.6	3138.4	3119.4
67.5°	3638.2	3321.9	3195.3	3113.1	3081.4	3182.7	3226.9	3049.8	2752.4	2663.8	2739.7
70°	3043.5	2954.9	2961.2	2822.0	2746.1	2676.5	2638.5	2480.3	2233.6	2119.7	2088.0
72.5°	2625.8	2587.9	2562.6	2436.0	2366.4	2208.2	2043.7	1885.5	1702.1	1607.1	1613.5
75°	2005.8	1993.1	2005.8	1942.5	1822.3	1695.7	1543.9	1341.4	1202.2	1082.0	1107.3
77.5°	1195.9	1233.8	1252.8	1227.5	1176.9	1063.0	968.1	835.2	702.3	607.4	594.8
80°	822.6	854.2	885.8	854.2	803.6	721.3	620.1	518.8	423.9	373.3	360.7
82.5°	626.4	658.0	677.0	645.4	582.1	493.5	423.9	354.3	278.4	227.8	215.1
85°	227.8	259.4	253.1	303.7	329.0	316.4	272.1	208.8	158.2	113.9	107.6
87.5°	63.3	56.9	63.3	63.3	63.3	56.9	50.6	50.6	50.6	31.6	25.3
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)