

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: P534301

Luminaire Tested: **GALN-SA9D-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39013 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

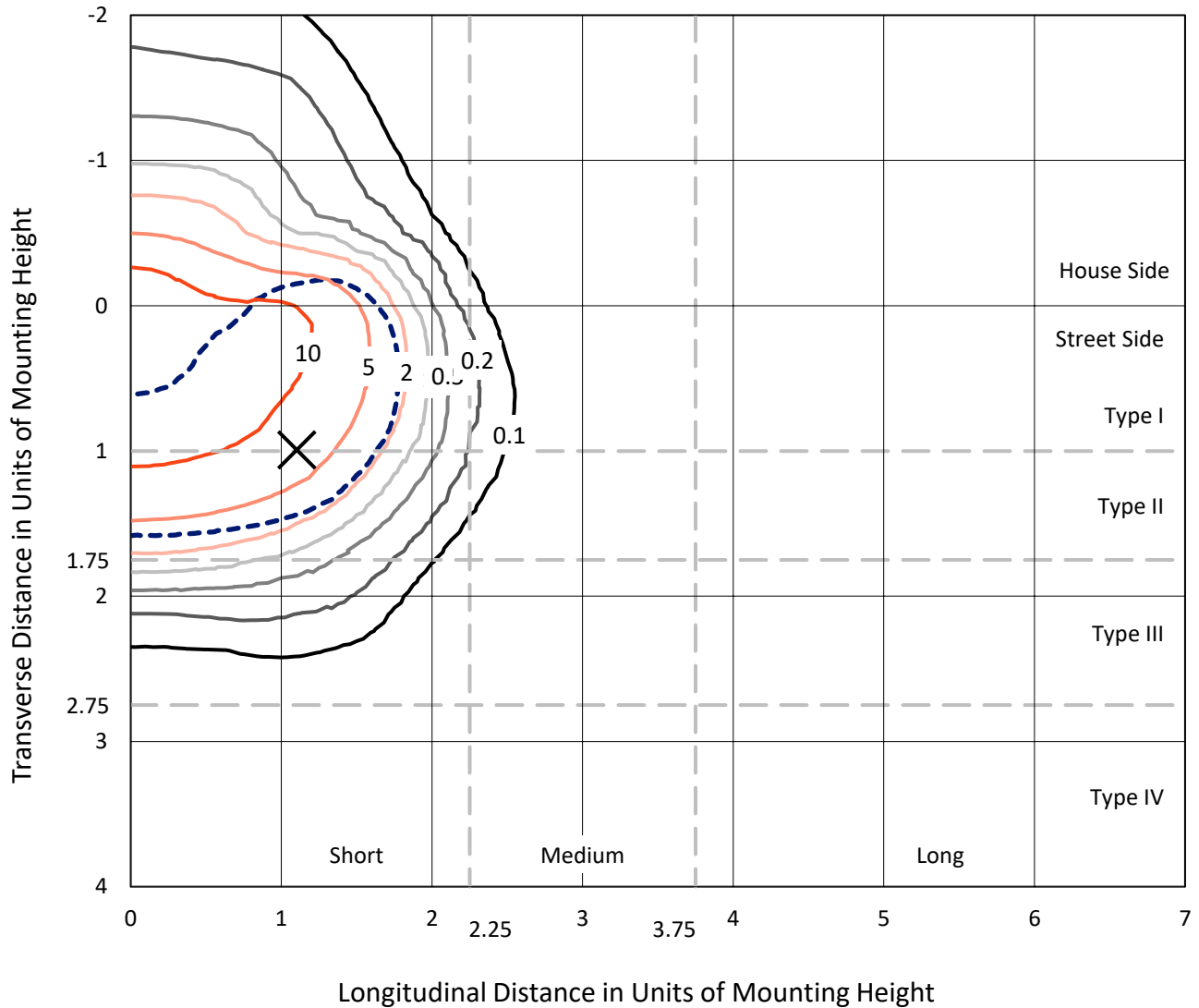
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

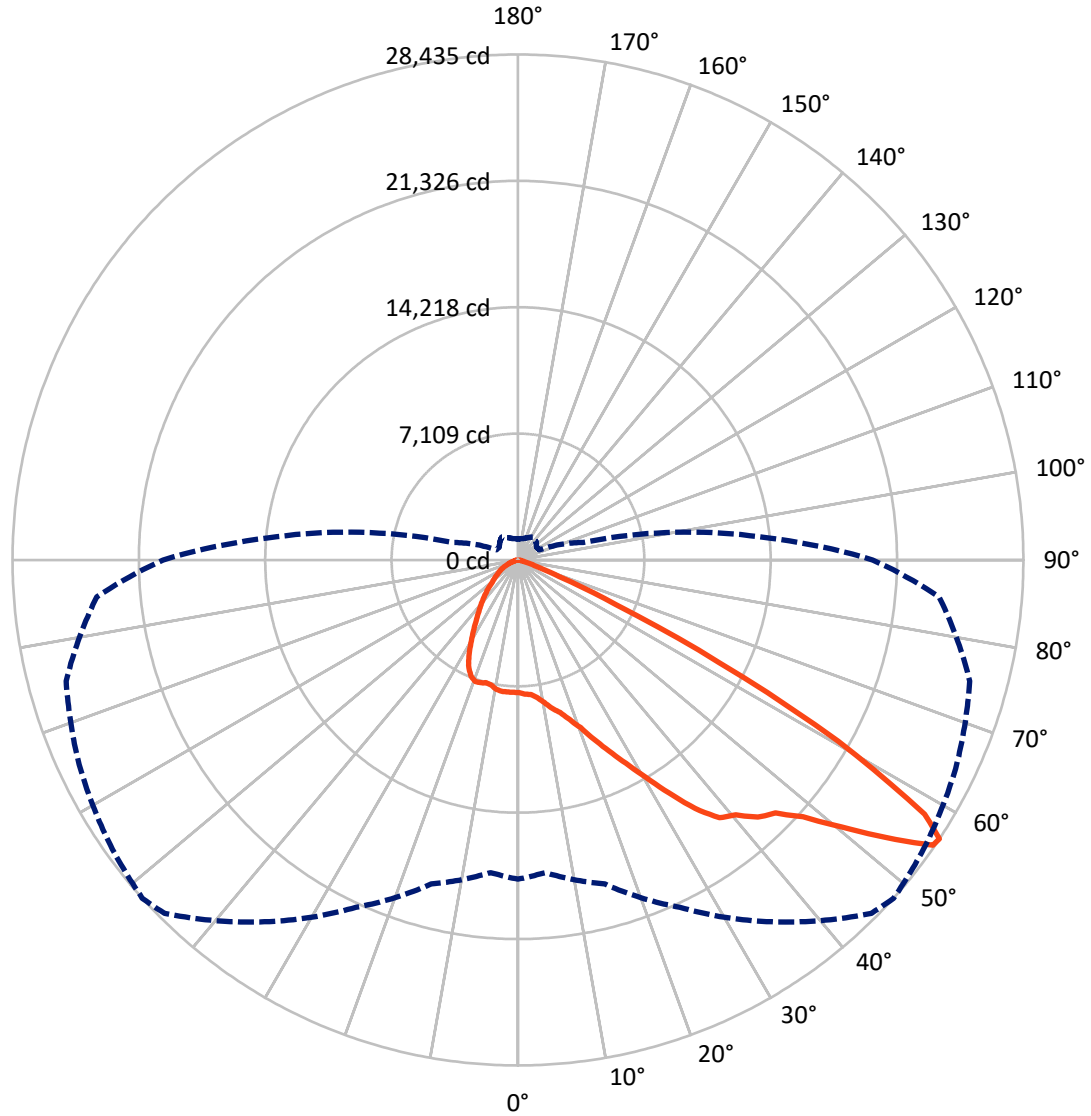
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA9D-735-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8484.6	0.0	8484.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	30528.4	0.0	30528.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	39013.0	0.0	39013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.9	1.9
10°-20°	2319.7	5.9
20°-30°	4207.5	10.8
30°-40°	6609.1	16.9
40°-50°	9641.5	24.7
50°-60°	11616.2	29.8
60°-70°	3401.1	8.7
70°-80°	431.5	1.1
80°-90°	60.5	0.2
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°	39013.0	100.0
0°-180°	39013.0	100.0

Coefficient of Utilization

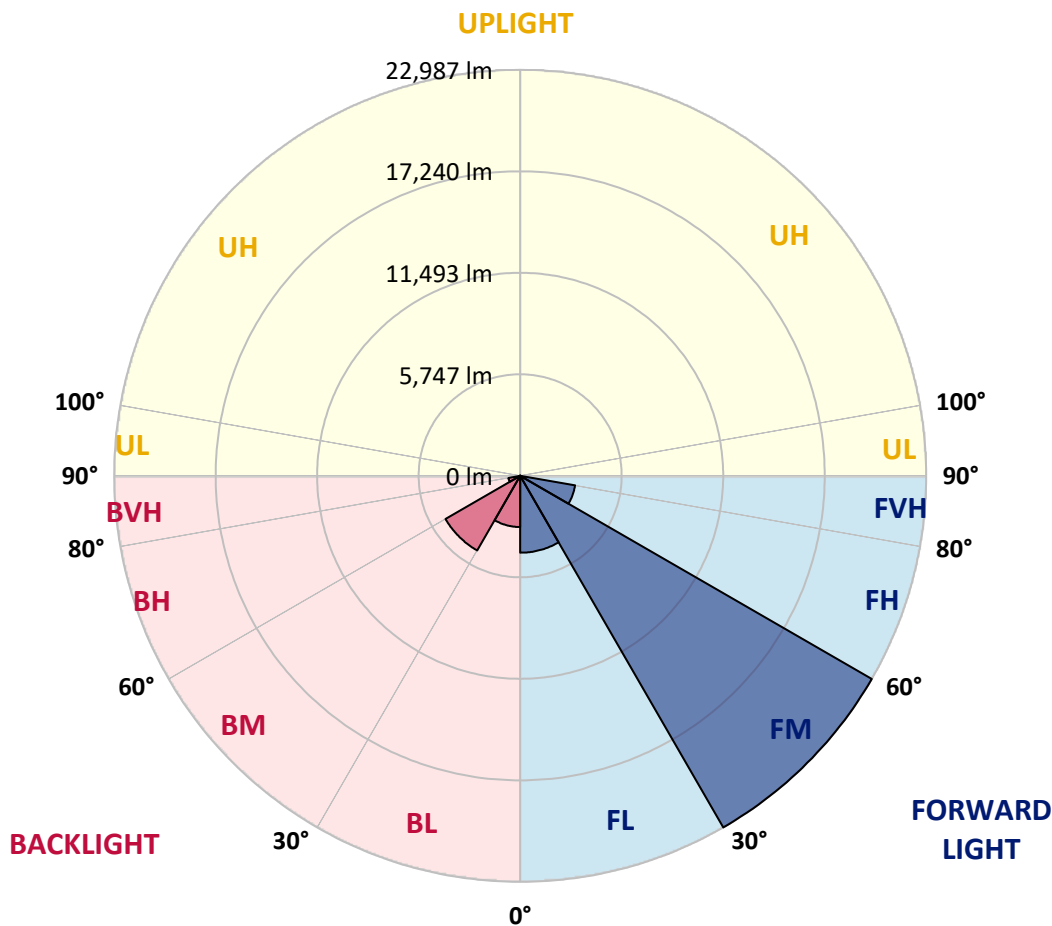


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4353.1	11.2			
FM (30°-60°)	22986.6	58.9			
FH (60°-80°)	3158.4	8.1			G2/5000
FVH (80°-90°)	30.4	0.1			G1/100
BL (0°-30°)	2900.0	7.4	B4/5000		
BM (30°-60°)	4880.3	12.5	B3/5000		
BH (60°-80°)	674.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	30.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5
2.5°	7586.5	7550.9	7550.9	7494.1	7558.1	7529.6	7550.9	7479.9	7550.9	7444.4	7529.6
5°	7622.0	7629.1	7600.7	7636.2	7636.2	7678.8	7607.8	7671.7	7707.2	7629.1	7593.6
7.5°	7806.7	7820.9	7813.8	7785.4	7842.2	7835.1	7828.0	7778.3	7792.5	7764.1	7721.4
10°	8168.9	8161.8	8197.4	8126.3	8083.7	8133.4	8147.6	8069.5	8012.7	7991.4	7856.4
12.5°	8694.6	8609.4	8559.6	8488.6	8509.9	8438.9	8566.7	8431.8	8403.4	8275.5	8140.5
15°	9120.8	9106.6	9113.7	9000.0	8872.2	8900.6	8900.6	8829.6	8786.9	8630.7	8438.9
17.5°	9994.5	9696.2	9760.1	9618.0	9511.5	9504.4	9440.5	9454.7	9341.0	9014.3	8723.0
20°	10676.5	10548.6	10449.1	10207.6	10044.3	10094.0	10065.6	9994.5	9959.0	9532.8	9120.8
22.5°	11287.4	11330.0	11166.6	11102.7	10875.4	10896.7	10953.5	10889.6	10619.6	10179.2	9568.3
25°	12146.9	12097.1	11876.9	11798.8	11585.7	11663.8	11884.0	11834.3	11663.8	10868.3	9916.4
27.5°	13162.7	12992.2	13034.8	12679.6	12473.6	12693.8	12956.7	13205.3	12722.2	11678.0	10328.4
30°	13880.1	13702.5	13688.3	13674.1	13624.4	13880.1	14185.6	14412.9	14022.2	12487.8	11010.3
32.5°	14235.3	14277.9	14398.7	14356.0	14789.3	15315.0	15634.7	15961.4	15471.3	13809.1	11912.5
35°	15180.0	14910.1	15180.0	15208.4	15656.0	16771.2	17176.1	17957.5	17836.7	15677.3	13013.5
37.5°	15734.1	15712.8	15748.3	16018.2	16451.5	17829.6	18405.0	19008.8	18781.5	16799.6	14384.4
40°	16650.4	16707.3	16700.2	16906.2	17382.1	18625.2	18859.6	19349.7	19371.1	18355.3	16401.8
42.5°	18120.9	17893.5	17744.4	17957.5	18625.2	19314.2	19783.1	19683.6	20386.8	20244.8	18994.6
45°	19442.1	19577.1	19356.9	19712.0	19953.5	20322.9	20308.7	20521.8	21416.8	22091.7	20948.0
47.5°	20678.1	20763.3	20869.9	21111.4	21637.1	21693.9	21573.1	21480.8	22716.8	23412.9	22461.1
50°	21416.8	21495.0	21992.2	22425.5	23405.8	23533.7	23604.7	23370.3	24208.5	24286.6	23888.8
52.5°	21218.0	21303.2	21999.3	23427.1	24989.9	26161.9	25948.8	25551.0	25501.3	25806.8	25210.1
55°	19456.3	19378.2	20337.1	22560.5	25487.1	28300.1	28328.5	27909.4	27106.7	26900.7	25011.2
56°	17957.5	17652.0	18873.8	21558.9	24847.8	28115.4	28435.0	27987.5	27234.6	26311.1	23782.3
57.5°	14711.2	15002.4	16217.1	18440.5	22638.6	26787.0	26971.7	26865.2	26296.9	24748.4	20926.7
60°	8112.1	8623.6	9696.2	12416.8	16117.7	20557.3	20706.5	21573.1	21679.7	18952.0	14398.7
62.5°	3445.2	3388.3	4503.6	6506.7	9177.6	12409.7	12686.7	13574.7	13738.0	10925.1	7224.2
65°	1399.4	1477.5	2038.7	3274.7	4851.6	5654.3	6045.0	6336.3	6876.1	4510.7	2663.8
67.5°	923.4	916.3	1200.5	1868.2	2614.1	2521.7	2521.7	2663.8	2464.9	1839.8	1150.8
70°	660.6	681.9	859.5	1292.8	1626.7	1207.6	1157.9	1108.1	1257.3	1214.7	930.5
72.5°	433.3	461.7	575.4	774.3	845.3	660.6	660.6	795.6	1037.1	980.3	760.1
75°	284.1	291.2	355.2	447.5	419.1	341.0	376.5	532.8	753.0	724.6	539.9
77.5°	191.8	198.9	241.5	291.2	234.4	191.8	206.0	269.9	369.4	369.4	284.1
80°	71.0	78.1	99.4	92.3	106.6	135.0	149.2	184.7	220.2	220.2	191.8
82.5°	0.0	7.1	21.3	49.7	78.1	106.6	120.8	142.1	163.4	184.7	177.6
85°	0.0	7.1	21.3	35.5	56.8	63.9	71.0	49.7	42.6	42.6	35.5
87.5°	0.0	0.0	7.1	7.1	7.1	7.1	7.1	7.1	14.2	7.1	7.1
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°	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5	7451.5
2.5°	7451.5	7444.4	7444.4	7423.1	7465.7	7444.4	7458.6	7451.5	7359.2	7430.2	7380.5
5°	7529.6	7579.4	7501.2	7487.0	7430.2	7451.5	7451.5	7380.5	7444.4	7437.3	7423.1
7.5°	7728.5	7643.3	7558.1	7472.8	7458.6	7437.3	7359.2	7330.7	7380.5	7323.6	7408.9
10°	7813.8	7828.0	7700.1	7586.5	7479.9	7330.7	7224.2	7160.3	7082.1	7167.4	7217.1
12.5°	8204.5	8062.4	7842.2	7664.6	7302.3	7153.2	7046.6	7018.2	7153.2	7181.6	7131.8
15°	8339.4	8318.1	8034.0	7636.2	7259.7	7082.1	7103.4	7046.6	7060.8	6989.8	7004.0
17.5°	8616.5	8374.9	8041.1	7543.8	7252.6	7210.0	7082.1	6854.8	6726.9	6670.1	6719.8
20°	8921.9	8687.5	8204.5	7579.4	7316.5	7202.9	6783.8	6506.7	6243.9	6101.8	6109.0
22.5°	9191.8	8900.6	8133.4	7593.6	7373.4	6904.5	6400.2	5853.2	5526.5	5306.3	5313.4
25°	9518.6	9106.6	8161.8	7622.0	7224.2	6428.6	5704.1	5171.3	4780.6	4631.4	4681.2
27.5°	9703.3	9234.5	8318.1	7685.9	6833.5	5753.8	4972.4	4475.2	4247.9	4176.8	4169.7
30°	10257.4	9518.6	8509.9	7558.1	6180.0	5029.2	4304.7	3999.2	3779.0	3715.1	3729.3
32.5°	11081.4	10037.1	8758.5	7224.2	5512.3	4382.8	3871.4	3644.1	3438.1	3317.3	3303.1
35°	11770.4	10925.1	9021.4	6705.6	4738.0	3885.6	3565.9	3281.8	2969.2	2834.3	2798.8
37.5°	13084.5	11926.7	8964.5	5924.3	3999.2	3516.2	3239.2	2891.1	2621.2	2436.5	2415.2
40°	14832.0	13098.7	8687.5	4972.4	3452.3	3189.4	2891.1	2557.2	2223.4	2067.1	2052.9
42.5°	16955.9	14533.6	8183.2	4006.3	2905.3	2862.7	2592.8	2209.2	1910.8	1797.2	1804.3
45°	18682.0	15762.5	7671.7	3217.9	2500.4	2543.0	2308.6	1946.3	1740.3	1648.0	1648.0
47.5°	20216.4	16593.6	7117.6	2656.7	2123.9	2223.4	2017.4	1804.3	1626.7	1555.7	1541.4
50°	21693.9	17438.9	6563.6	2152.3	1811.4	1910.8	1889.5	1719.0	1577.0	1491.7	1498.8
52.5°	22617.3	17573.9	5860.3	1761.7	1584.1	1697.7	1768.8	1612.5	1456.2	1406.5	1392.3
55°	21487.9	15833.5	4546.2	1449.1	1342.5	1491.7	1626.7	1449.1	1328.3	1243.1	1236.0
56°	19967.7	14157.1	3800.3	1335.4	1271.5	1434.9	1577.0	1385.2	1250.2	1200.5	1165.0
57.5°	16906.2	11585.7	2805.9	1186.3	1179.2	1335.4	1498.8	1321.2	1165.0	1122.3	1122.3
60°	10541.5	6521.0	1697.7	994.5	1022.9	1186.3	1349.7	1179.2	1037.1	1037.1	1058.4
62.5°	4801.9	2713.5	1030.0	845.3	880.8	1022.9	1200.5	1065.5	987.4	1065.5	1079.7
65°	1633.8	1172.1	745.9	674.8	696.1	845.3	1030.0	1079.7	1072.6	1122.3	1150.8
67.5°	916.3	753.0	625.1	561.2	547.0	625.1	845.3	1079.7	1037.1	1015.8	1030.0
70°	774.3	639.3	554.1	497.2	475.9	504.3	653.5	816.9	731.7	710.3	696.1
72.5°	625.1	532.8	483.0	447.5	383.6	326.8	298.3	312.6	348.1	369.4	404.9
75°	440.4	404.9	404.9	362.3	277.0	206.0	163.4	135.0	92.3	63.9	71.0
77.5°	248.6	248.6	255.7	220.2	177.6	135.0	99.4	71.0	35.5	14.2	7.1
80°	170.5	184.7	198.9	177.6	149.2	120.8	85.2	49.7	21.3	0.0	0.0
82.5°	170.5	191.8	206.0	177.6	149.2	113.7	85.2	49.7	21.3	7.1	0.0
85°	35.5	42.6	49.7	56.8	85.2	85.2	63.9	42.6	21.3	7.1	0.0
87.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	0.0	0.0
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)