

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: P534297

Luminaire Tested: **GALN-SA9D-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38538 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

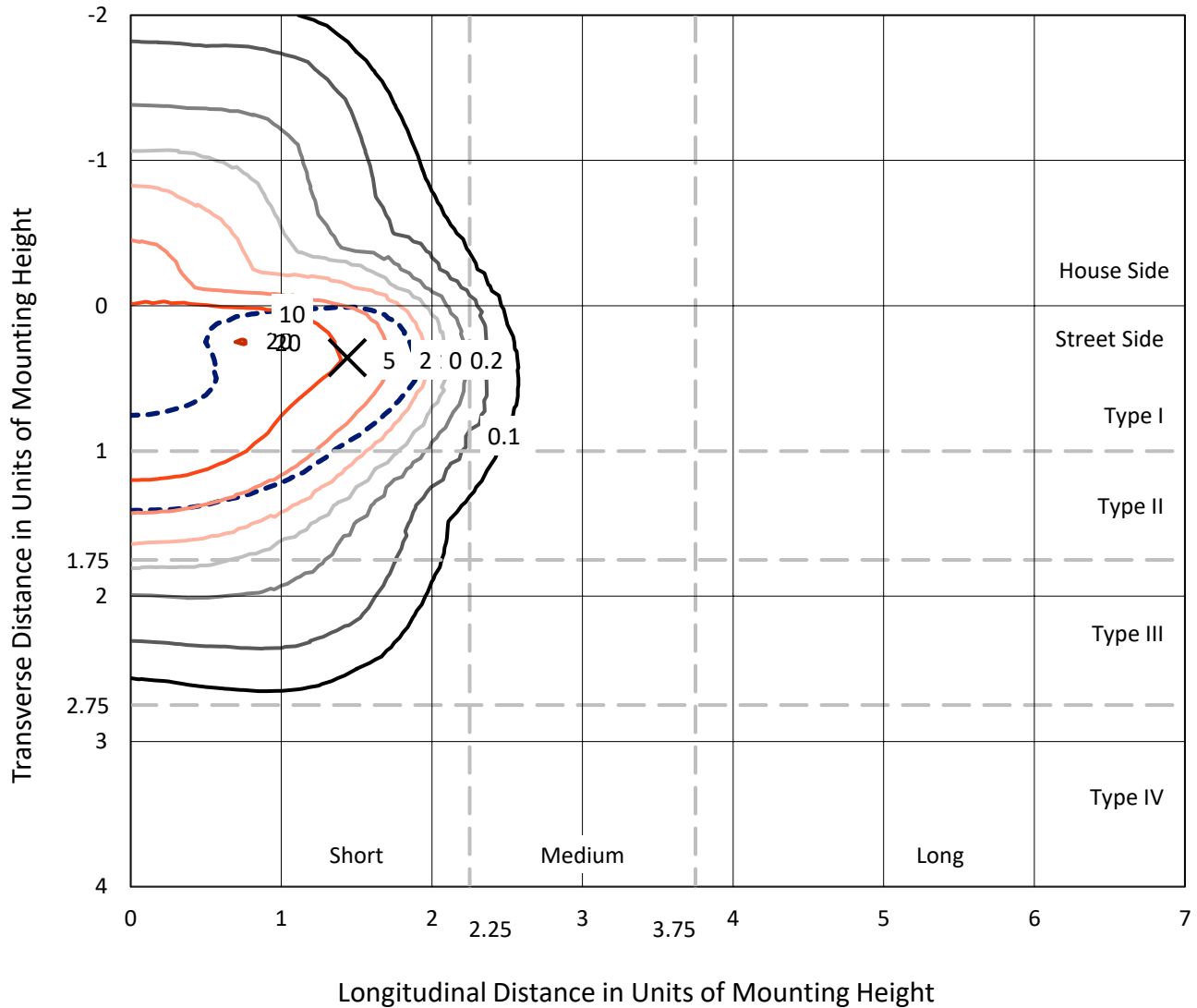
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

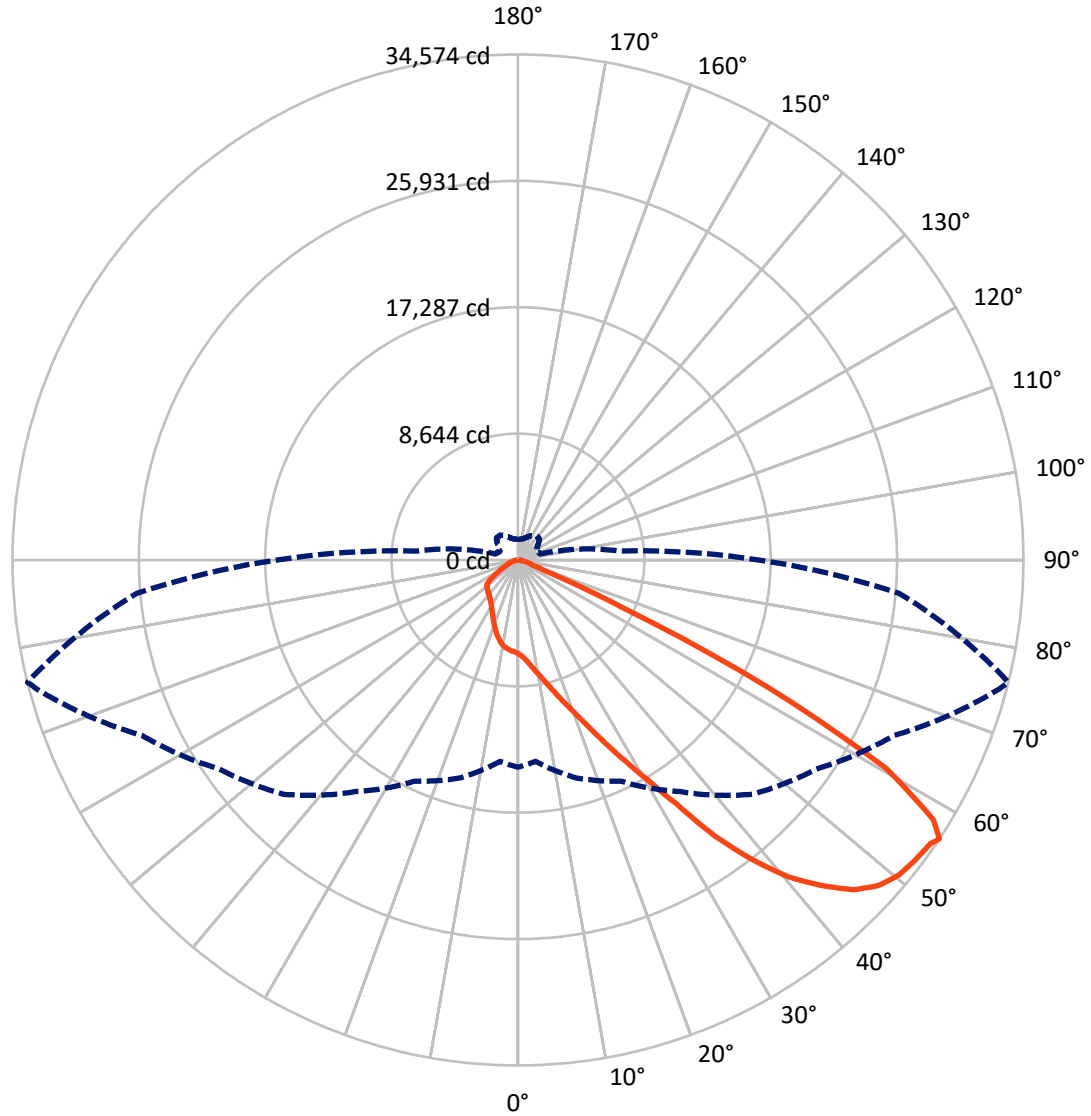
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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	6054.1	0.0	6054.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	32483.9	0.0	32483.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	38538.0	0.0	38538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.2	1.7
10°-20°	2076.0	5.4
20°-30°	3764.3	9.8
30°-40°	6491.7	16.8
40°-50°	10546.0	27.4
50°-60°	11115.9	28.8
60°-70°	3396.4	8.8
70°-80°	435.4	1.1
80°-90°	66.2	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°	38538.0	100.0
0°-180°	38538.0	100.0

Coefficient of Utilization

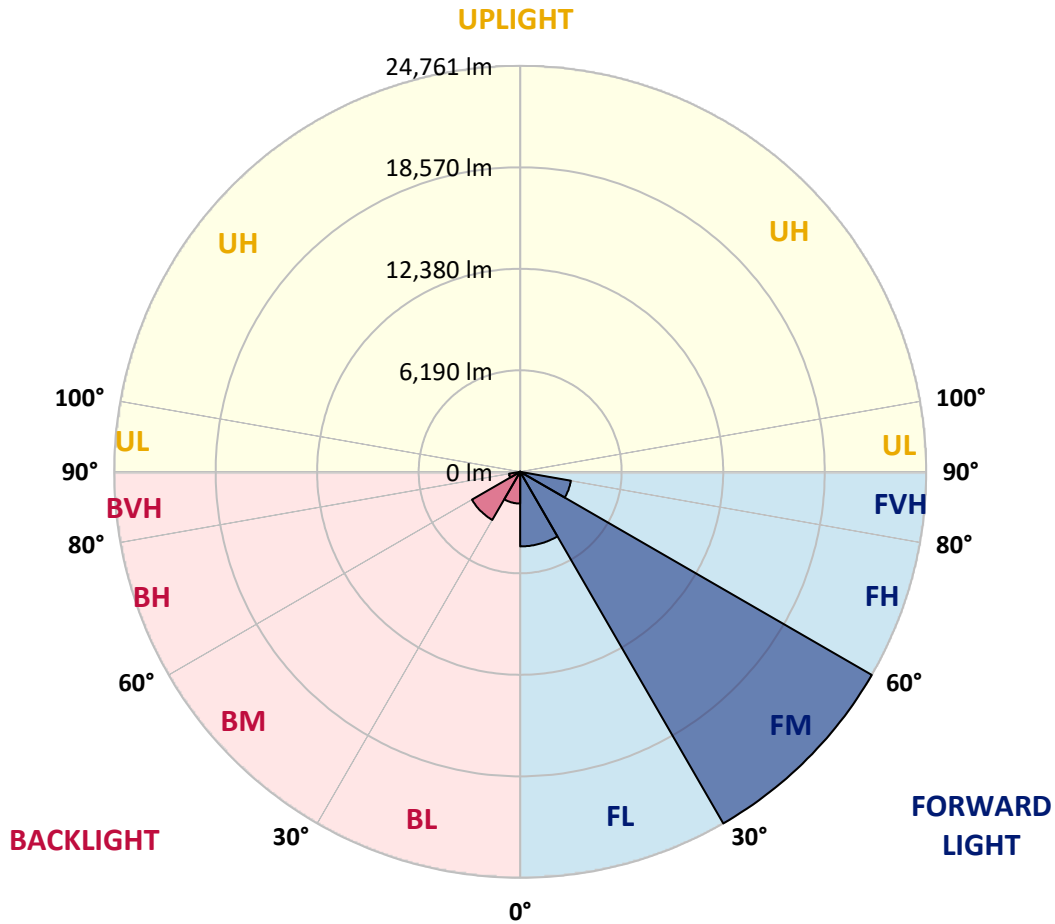


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4549.8	11.8			
FM (30°-60°)	24760.6	64.2			
FH (60°-80°)	3141.1	8.2			G2/5000
FVH (80°-90°)	32.4	0.1			G1/100
BL (0°-30°)	1936.7	5.0	B3/2500		
BM (30°-60°)	3393.0	8.8	B3/5000		
BH (60°-80°)	690.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	33.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7
2.5°	7387.9	7217.4	7224.5	7210.3	7189.0	7110.9	6876.5	6840.9	6684.7	6642.0	6500.0
5°	8275.9	8126.7	8212.0	8084.1	7963.3	7892.3	7508.7	7331.1	7082.5	6990.1	6791.2
7.5°	8830.0	8759.0	8730.5	8737.6	8624.0	8446.4	8275.9	7885.2	7551.3	7480.3	7061.2
10°	9099.9	9057.3	9099.9	9078.6	9128.3	9149.7	8851.3	8616.9	8126.7	8006.0	7352.4
12.5°	9163.9	9249.1	9284.6	9377.0	9497.7	9703.8	9682.4	9362.8	8709.2	8631.1	7799.9
15°	9320.2	9391.2	9355.7	9504.8	9732.2	10080.3	10265.0	10215.2	9512.0	9369.9	8318.5
17.5°	9462.2	9334.4	9455.1	9753.5	9980.8	10513.6	10961.1	11167.1	10385.7	10222.3	8794.5
20°	9654.0	9618.5	9597.2	9746.4	10151.3	10861.7	11749.6	12126.1	11366.0	11195.5	9476.4
22.5°	10236.5	10243.6	10229.4	10009.2	10300.5	11103.2	12438.7	13369.3	12538.2	12396.1	10250.7
25°	11003.7	10911.4	10840.4	10662.8	10627.2	11323.4	13134.9	14889.5	13944.7	13845.3	11089.0
27.5°	11813.6	11813.6	11600.5	11437.1	11209.8	11870.4	13774.2	16367.1	15642.5	15507.5	11820.7
30°	12694.4	12744.2	12715.8	12367.7	12225.6	12467.1	14427.8	18256.7	17588.9	17418.5	13028.3
32.5°	13994.4	13887.9	14008.6	13717.4	13298.3	13511.4	15457.8	19947.4	20117.9	19876.4	14612.5
35°	15713.5	15649.6	15571.5	15095.5	14598.3	14768.7	16914.1	22028.8	23293.3	23172.5	16210.8
37.5°	17255.1	17219.5	17155.6	16828.8	16253.4	16459.4	18569.3	24195.5	26390.5	25992.7	18469.8
40°	18874.7	19066.5	18860.5	18569.3	18043.6	18498.2	20515.7	25481.2	28997.6	28514.5	20196.0
42.5°	21069.8	20920.6	21013.0	20480.2	20196.0	20693.3	22469.2	26767.0	31022.2	30446.8	22028.8
45°	23406.9	23414.0	23165.4	22994.9	22256.1	22796.0	23669.8	27477.4	32634.7	32187.2	23414.0
47.5°	24905.8	24898.7	25168.7	25438.6	24678.5	24145.7	24486.7	28152.3	33465.9	33259.9	23918.4
50°	24671.4	24742.4	25090.5	26099.3	26497.1	25779.6	25253.9	27953.4	33842.4	33821.1	24351.7
52.5°	21460.5	21694.9	22277.4	23733.7	25737.0	26624.9	26056.6	28322.7	34027.1	34062.6	24998.2
55°	16338.7	16466.5	17574.7	19343.6	21560.0	24600.4	25737.0	28614.0	34169.2	34233.1	25779.6
56°	14172.0	13831.0	15429.4	16686.8	19336.5	22661.0	24927.1	28386.7	34083.9	34574.1	26170.3
57.5°	10698.3	10471.0	11763.8	13333.8	15884.0	19393.3	22412.4	27314.0	33508.5	33501.4	25609.1
60°	6507.1	6279.7	7274.3	8197.8	9625.6	11941.4	15145.2	21751.8	28329.9	28926.6	20735.9
62.5°	3871.6	4013.6	4994.0	5555.2	6016.9	6258.4	7835.5	12928.9	18903.1	19329.4	12864.9
65°	2578.7	2628.4	3367.2	4290.7	4496.7	3580.3	3189.6	5235.5	8197.8	7934.9	5306.5
67.5°	1591.2	1704.9	2259.0	3225.1	3573.2	2614.2	1513.1	1953.5	2259.0	2259.0	1534.4
70°	966.1	1022.9	1506.0	2195.1	2450.8	1683.6	1101.1	1101.1	1086.9	1065.6	916.4
72.5°	461.7	497.3	767.2	1129.5	1150.8	888.0	852.5	930.6	909.3	902.2	760.1
75°	198.9	213.1	269.9	355.2	404.9	376.5	518.6	667.8	689.1	667.8	547.0
77.5°	63.9	71.0	99.5	127.9	135.0	163.4	220.2	277.0	319.7	298.4	269.9
80°	7.1	14.2	28.4	63.9	99.5	127.9	163.4	184.7	206.0	206.0	191.8
82.5°	7.1	7.1	28.4	56.8	92.3	120.8	156.3	177.6	206.0	213.1	198.9
85°	0.0	7.1	21.3	49.7	78.1	78.1	71.0	71.0	49.7	49.7	49.7
87.5°	0.0	0.0	7.1	7.1	7.1	14.2	14.2	14.2	14.2	14.2	14.2
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°	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7
2.5°	6471.5	6457.3	6265.5	6144.8	6080.8	5953.0	5874.8	5818.0	5775.4	5725.6	5732.7
5°	6556.8	6507.1	6187.4	5967.2	5704.3	5562.3	5441.5	5342.0	5278.1	5263.9	5235.5
7.5°	6798.3	6535.5	6052.4	5654.6	5320.7	5178.7	5072.1	5008.2	5036.6	4972.6	5022.4
10°	6983.0	6592.3	5889.0	5313.6	4979.7	4873.2	4816.4	4866.1	4937.1	4908.7	4873.2
12.5°	7210.3	6649.1	5626.2	4986.8	4674.3	4596.1	4695.6	4787.9	4930.0	4986.8	4915.8
15°	7466.1	6713.1	5292.3	4610.3	4411.4	4475.4	4645.9	4809.3	4951.3	5022.4	5065.0
17.5°	7778.6	6691.8	4965.5	4312.0	4162.8	4347.5	4553.5	4702.7	4915.8	5022.4	4994.0
20°	8069.9	6620.7	4603.2	4013.6	4020.7	4191.2	4361.7	4603.2	4716.9	4859.0	4809.3
22.5°	8346.9	6492.8	4226.7	3807.6	3807.6	4070.5	4155.7	4312.0	4411.4	4482.5	4475.4
25°	8737.6	6251.3	3914.2	3608.7	3694.0	3864.5	3935.5	3985.2	3942.6	3999.4	4006.5
27.5°	9014.7	6002.7	3658.4	3431.1	3587.4	3715.3	3694.0	3665.5	3566.1	3488.0	3537.7
30°	9313.0	5711.4	3438.2	3310.4	3395.6	3509.3	3424.0	3338.8	3182.5	3054.6	3061.7
32.5°	9739.3	5576.5	3246.4	3168.3	3281.9	3296.2	3203.8	3075.9	2919.7	2798.9	2791.8
35°	10534.9	5491.2	3083.0	3075.9	3097.2	3104.3	3012.0	2855.7	2791.8	2692.3	2727.8
37.5°	11330.5	5448.6	2969.4	2941.0	2933.9	2941.0	2834.4	2685.2	2806.0	2798.9	2813.1
40°	12346.4	5640.4	2806.0	2770.5	2777.6	2777.6	2642.6	2600.0	2813.1	2834.4	2841.5
42.5°	13376.4	5881.9	2699.4	2585.8	2614.2	2614.2	2543.2	2493.4	2642.6	2500.5	2479.2
45°	14271.5	6237.1	2585.8	2401.1	2472.1	2507.6	2486.3	2401.1	2308.7	2067.2	2067.2
47.5°	14562.7	6549.7	2450.8	2223.5	2280.3	2436.6	2372.7	2195.1	2031.7	1832.8	1818.6
50°	15074.2	6890.7	2344.2	2017.5	2138.2	2330.0	2266.1	2088.5	1903.8	1761.7	1768.8
52.5°	15599.9	7281.4	2145.3	1775.9	1925.1	2244.8	2244.8	2045.9	1761.7	1662.3	1648.1
55°	16388.4	7267.2	1790.2	1456.3	1719.1	2116.9	2152.4	1832.8	1577.0	1498.9	1498.9
56°	16502.1	6940.4	1612.6	1363.9	1626.8	2081.4	2088.5	1775.9	1506.0	1420.8	1420.8
57.5°	15649.6	6265.5	1413.7	1250.3	1513.1	2017.5	2024.6	1726.2	1449.2	1328.4	1314.2
60°	12040.9	4241.0	1179.2	1115.3	1371.0	1818.6	1854.1	1569.9	1271.6	1179.2	1172.1
62.5°	6798.3	2351.3	1037.2	1008.7	1179.2	1548.6	1655.2	1371.0	1079.8	1030.0	1044.3
65°	3104.3	1292.9	873.8	816.9	951.9	1193.4	1335.5	1129.5	888.0	831.1	831.1
67.5°	1136.6	880.9	745.9	646.4	667.8	774.3	866.7	731.7	589.6	504.4	525.7
70°	809.8	738.8	653.5	561.2	518.6	504.4	497.3	412.0	291.3	227.3	241.5
72.5°	653.5	610.9	547.0	476.0	404.9	341.0	291.3	213.1	135.0	92.3	85.2
75°	468.8	447.5	397.8	341.0	284.2	241.5	198.9	135.0	71.0	35.5	35.5
77.5°	241.5	241.5	234.4	213.1	177.6	142.1	113.7	78.1	42.6	14.2	14.2
80°	184.7	198.9	206.0	184.7	163.4	127.9	92.3	56.8	28.4	7.1	7.1
82.5°	177.6	206.0	220.2	191.8	163.4	120.8	92.3	56.8	28.4	7.1	7.1
85°	42.6	42.6	63.9	71.0	92.3	99.5	78.1	49.7	21.3	7.1	7.1
87.5°	14.2	14.2	14.2	14.2	14.2	14.2	7.1	7.1	7.1	7.1	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)