

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: P530308

Luminaire Tested: **GALN-SA5C-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29595 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

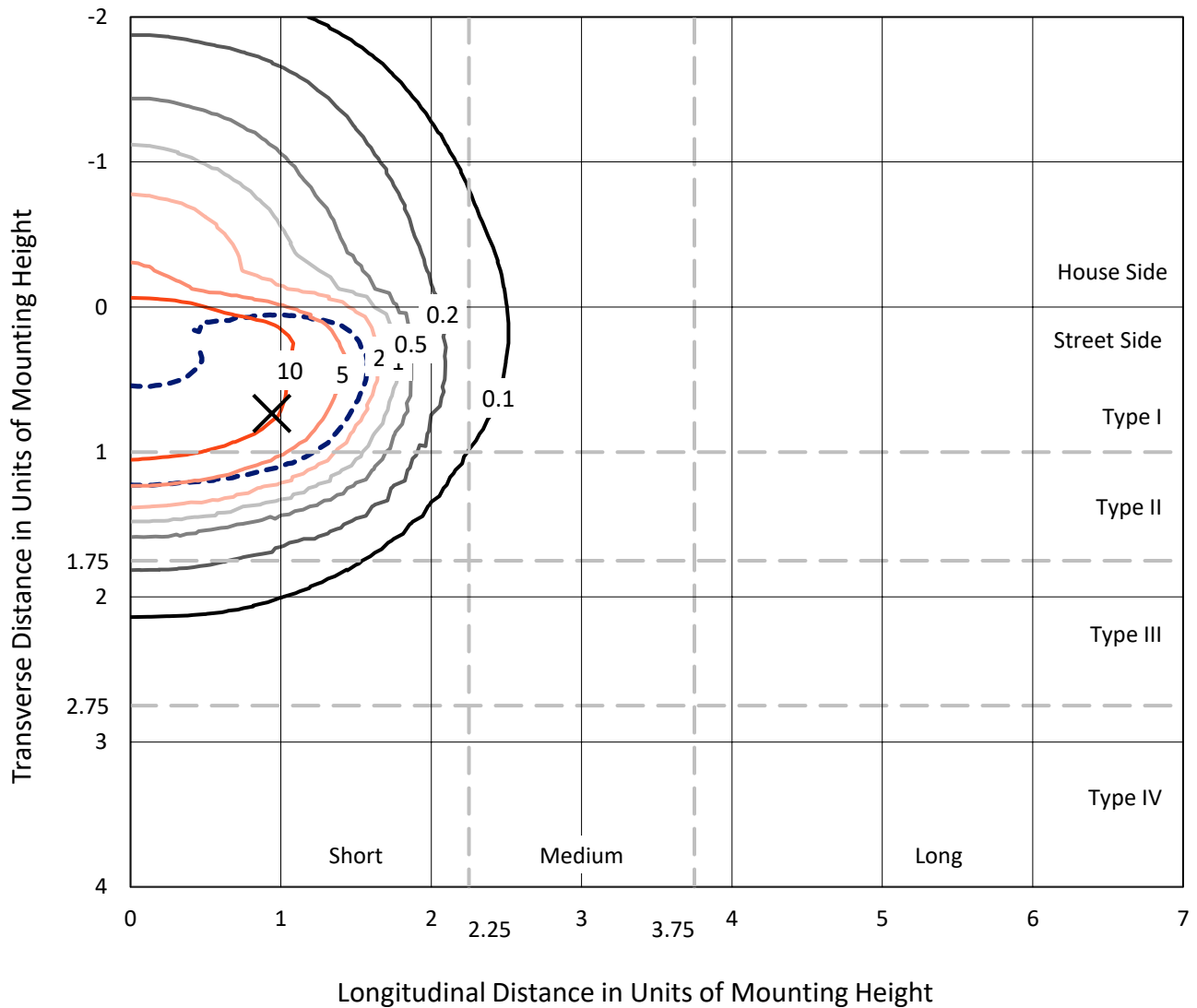
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

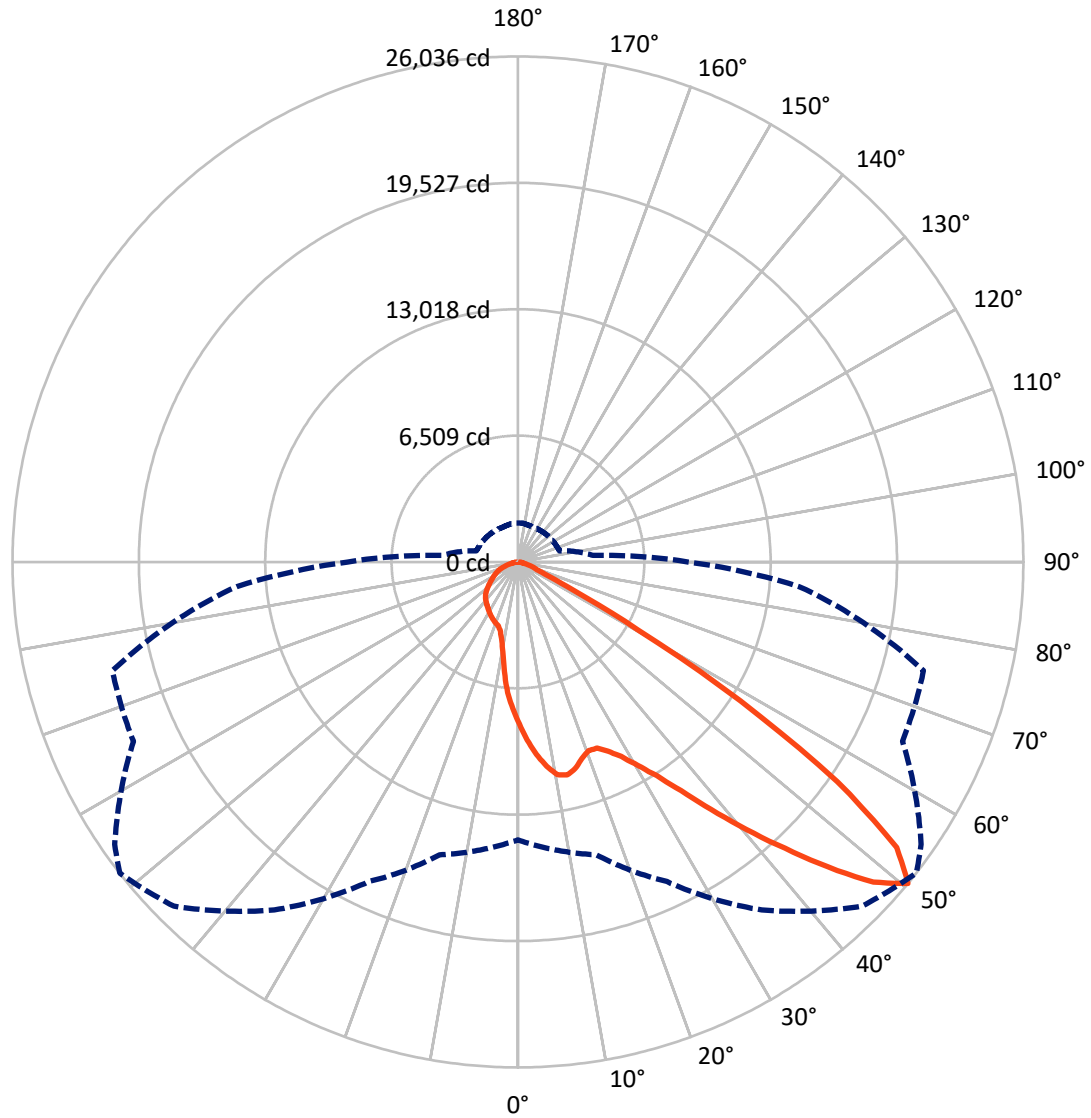
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5563.2	0.0	5563.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24031.9	0.0	24031.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	29595.0	0.0	29595.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.9	2.6
10°-20°	2060.9	7.0
20°-30°	3471.5	11.7
30°-40°	5825.4	19.7
40°-50°	8911.4	30.1
50°-60°	6497.1	22.0
60°-70°	1445.9	4.9
70°-80°	521.5	1.8
80°-90°	92.3	0.3
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°	29595.0	100.0
0°-180°	29595.0	100.0

Coefficient of Utilization

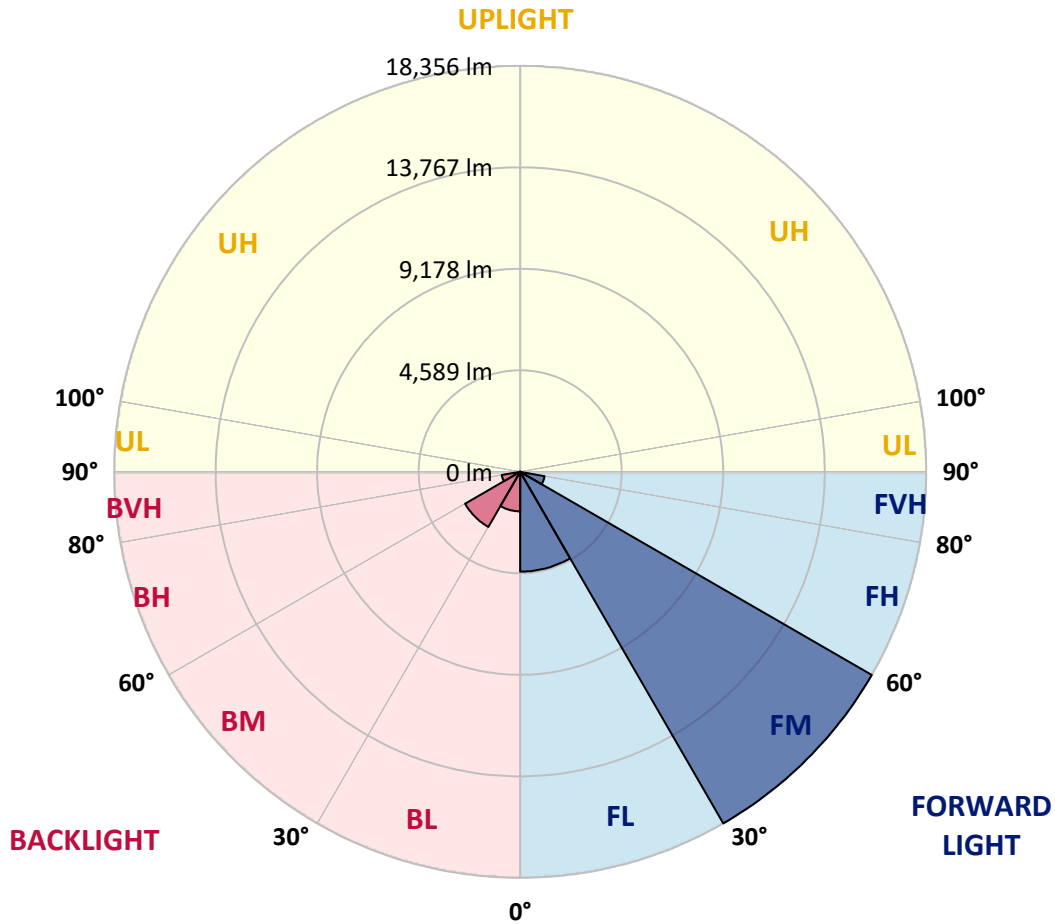


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4514.2	15.3			
FM (30°-60°)	18356.3	62.0			
FH (60°-80°)	1119.9	3.8			G1/1800
FVH (80°-90°)	41.4	0.1			G1/100
BL (0°-30°)	1787.0	6.0	B3/2500		
BM (30°-60°)	2877.6	9.7	B3/5000		
BH (60°-80°)	847.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	50.9	0.2			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°	52°	55°	65°	75°	85°
0°	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3
2.5°	9822.5	9633.5	9654.9	9519.3	9373.1	9330.3	9180.5	9037.8	8930.8	8702.6	8492.1
5°	10735.5	10678.5	10592.9	10485.9	10375.3	10104.3	9950.9	9772.6	9380.2	9027.1	8677.6
7.5°	10867.5	10856.8	10903.2	10903.2	10942.4	10839.0	10621.4	10496.6	10079.3	9505.1	8855.9
10°	9940.2	9972.3	10197.0	10489.4	10896.0	11177.8	11142.1	11110.0	10653.5	9868.9	9066.4
12.5°	9201.9	9130.6	9262.5	9512.2	10122.1	10803.3	11263.4	11267.0	11149.3	10450.2	9219.7
15°	8784.6	8834.5	8870.2	8987.9	9448.0	10236.2	11045.8	11284.8	11802.0	10860.4	9462.3
17.5°	9052.1	8884.5	8877.3	8905.9	9141.3	9733.3	10642.8	11053.0	12158.6	11388.2	9761.9
20°	9401.6	9398.1	9298.2	9262.5	9259.0	9786.8	10378.9	10935.3	12347.7	12073.0	10065.0
22.5°	10015.1	10015.1	9851.0	9772.6	9604.9	10036.5	10414.5	10792.6	12661.5	12543.8	10211.3
25°	11042.3	10874.6	10592.9	10400.3	10304.0	10457.3	10792.6	11131.4	12936.2	13043.2	10514.4
27.5°	11991.0	11727.1	11588.0	11256.3	11127.9	11038.7	11345.4	11687.8	13257.2	13820.7	10678.5
30°	13068.1	13021.8	12772.1	12344.1	12026.7	11862.6	12144.4	12483.2	13845.6	14616.0	11056.5
32.5°	14994.1	14573.2	14234.4	13710.1	13193.0	12843.4	13121.6	13346.3	14822.9	15447.1	11470.3
35°	17073.4	16937.9	16353.0	15407.8	14616.0	14302.2	14466.2	14633.9	15960.7	16716.8	12165.8
37.5°	19117.1	18931.7	18450.2	17654.8	16691.8	16053.4	16171.1	16367.2	17237.5	18428.8	13014.6
40°	20586.6	20358.3	20115.8	19998.1	19042.2	18168.4	18100.6	18150.6	18963.8	20033.7	13956.2
42.5°	20693.6	20975.3	21050.2	21524.6	21299.9	20583.0	20165.7	20176.4	20611.5	21620.9	14908.5
45°	20468.9	20208.5	20761.3	22056.0	22797.9	23133.1	22430.5	22341.3	21631.6	22541.1	15382.9
47.5°	18111.3	18182.7	19117.1	21164.4	23307.9	24805.9	24641.8	24345.8	22177.3	22509.0	15308.0
50°	14316.4	14748.0	15614.7	18164.8	21881.3	25069.8	26036.4	25351.6	21852.7	21624.5	14544.7
52.5°	9533.6	9711.9	10282.6	13574.6	17594.2	22409.1	24431.4	24588.3	21553.1	20465.3	13578.1
55°	4244.3	4230.0	5032.5	7090.5	11038.7	17052.0	19962.4	20918.3	20401.1	19284.8	12636.6
57.5°	1797.6	1858.2	2186.3	3063.7	5428.4	10289.7	13524.6	14362.8	15689.6	15835.8	9694.1
60°	1216.2	1223.4	1312.5	1533.6	2271.9	4832.8	7094.0	8099.8	9048.5	8984.3	5143.1
62.5°	955.9	980.8	1048.6	1137.8	1348.2	2193.5	3174.3	3734.3	3794.9	3192.1	1950.9
65°	816.8	820.3	888.1	963.0	1055.7	1276.9	1530.1	1558.6	1576.4	1519.4	1433.8
67.5°	674.1	681.2	734.7	820.3	905.9	977.3	1048.6	1084.3	1166.3	1326.8	1305.4
70°	535.0	545.7	592.1	663.4	741.9	784.7	873.8	905.9	980.8	1105.7	1155.6
72.5°	406.6	410.2	449.4	499.3	570.7	613.5	688.4	724.0	774.0	881.0	927.3
75°	292.5	303.2	331.7	356.7	367.4	395.9	467.2	506.5	577.8	624.2	627.7
77.5°	153.4	160.5	167.6	167.6	203.3	256.8	303.2	324.6	374.5	410.2	392.3
80°	60.6	64.2	82.0	110.6	142.7	185.5	217.6	228.3	271.1	292.5	303.2
82.5°	35.7	39.2	53.5	78.5	103.4	132.0	156.9	167.6	196.2	221.1	228.3
85°	17.8	21.4	32.1	49.9	67.8	82.0	78.5	74.9	74.9	71.3	74.9
87.5°	7.1	7.1	10.7	10.7	10.7	14.3	17.8	17.8	17.8	21.4	21.4
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°	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3	8342.3
2.5°	8353.0	8210.4	8078.4	7835.9	7571.9	7497.0	7190.3	7079.8	7001.3	6908.6	6880.0
5°	8395.8	8206.8	7782.4	7293.8	6905.0	6405.7	6077.5	5724.4	5467.6	5403.4	5385.6
7.5°	8485.0	8160.4	7429.3	6691.0	5895.6	5218.0	4700.8	4422.6	4176.5	4162.3	4137.3
10°	8584.9	8021.3	7044.1	5884.9	4868.4	4240.7	3930.4	3809.2	3748.5	3734.3	3727.1
12.5°	8666.9	7992.8	6612.5	5100.3	4140.9	3762.8	3670.1	3659.4	3684.3	3691.5	3705.7
15°	8702.6	7878.7	6091.8	4397.7	3687.9	3548.8	3588.0	3630.8	3648.7	3695.0	3659.4
17.5°	8770.3	7732.4	5449.8	3841.3	3434.7	3459.6	3527.4	3577.3	3605.9	3638.0	3591.6
20°	8806.0	7600.5	4847.0	3509.6	3345.5	3391.9	3484.6	3523.8	3559.5	3573.8	3520.3
22.5°	8773.9	7329.4	4315.6	3242.1	3259.9	3320.5	3402.6	3445.4	3424.0	3366.9	3334.8
25°	8688.3	6947.8	3762.8	3070.9	3138.6	3245.6	3309.8	3277.7	3238.5	3206.4	3195.7
27.5°	8684.7	6480.6	3363.3	2913.9	3035.2	3181.4	3160.0	3131.5	3149.3	3124.4	3095.8
30°	8702.6	6027.6	3035.2	2824.8	2960.3	3031.6	3056.6	3028.1	3049.5	3003.1	3017.4
32.5°	8609.8	5585.3	2821.2	2721.3	2871.1	2867.6	2949.6	2971.0	2921.1	2824.8	2839.0
35°	8649.1	5228.7	2639.3	2675.0	2771.3	2771.3	2835.5	2810.5	2678.5	2621.5	2635.7
37.5°	8920.1	4879.1	2550.1	2610.8	2675.0	2703.5	2682.1	2575.1	2543.0	2543.0	2550.1
40°	9176.9	4579.5	2496.6	2596.5	2585.8	2603.6	2446.7	2457.4	2457.4	2461.0	2443.1
42.5°	9405.2	4376.3	2453.8	2510.9	2528.7	2436.0	2339.7	2329.0	2354.0	2350.4	2336.1
45°	9487.2	4208.6	2393.2	2414.6	2428.9	2275.5	2229.1	2207.7	2236.3	2247.0	2261.2
47.5°	9173.4	4069.5	2325.4	2282.6	2254.1	2154.2	2093.6	2054.4	2090.0	2150.7	2164.9
50°	8770.3	3887.6	2218.4	2136.4	2075.8	2033.0	1990.2	1950.9	1975.9	2018.7	2008.0
52.5°	8174.7	3602.3	2082.9	1997.3	1893.9	1904.6	1865.3	1843.9	1858.2	1858.2	1847.5
55°	7325.9	2960.3	1854.6	1794.0	1708.4	1736.9	1744.1	1715.5	1687.0	1712.0	1690.6
57.5°	5000.4	2090.0	1654.9	1654.9	1569.3	1608.5	1605.0	1537.2	1469.5	1476.6	1462.3
60°	2892.5	1665.6	1526.5	1512.2	1423.1	1455.2	1462.3	1416.0	1312.5	1319.7	1305.4
62.5°	1644.2	1423.1	1333.9	1312.5	1294.7	1323.2	1323.2	1262.6	1173.4	1180.6	1166.3
65°	1398.1	1319.7	1191.3	1187.7	1180.6	1187.7	1159.2	1095.0	1016.5	984.4	988.0
67.5°	1269.7	1219.8	1095.0	1062.9	1041.5	1037.9	984.4	923.8	888.1	859.6	856.0
70°	1112.8	1073.6	980.8	938.0	916.6	866.7	813.2	774.0	724.0	709.8	724.0
72.5°	881.0	877.4	841.7	795.4	749.0	709.8	663.4	609.9	563.5	552.8	527.9
75°	609.9	617.0	624.2	617.0	577.8	527.9	474.4	431.6	374.5	342.4	335.3
77.5°	399.5	410.2	420.9	406.6	381.6	335.3	299.6	246.1	203.3	178.3	174.8
80°	292.5	306.7	313.9	303.2	274.6	239.0	199.7	156.9	124.8	103.4	103.4
82.5°	224.7	239.0	246.1	228.3	199.7	171.2	142.7	110.6	85.6	67.8	64.2
85°	78.5	74.9	89.2	92.7	110.6	103.4	85.6	64.2	49.9	35.7	32.1
87.5°	21.4	21.4	25.0	25.0	21.4	17.8	17.8	17.8	14.3	10.7	10.7
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)