

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: P533367

Luminaire Tested: **GALN-SA8D-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
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-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35391 lumens
Efficiency: N/A
Efficacy: 71.8 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

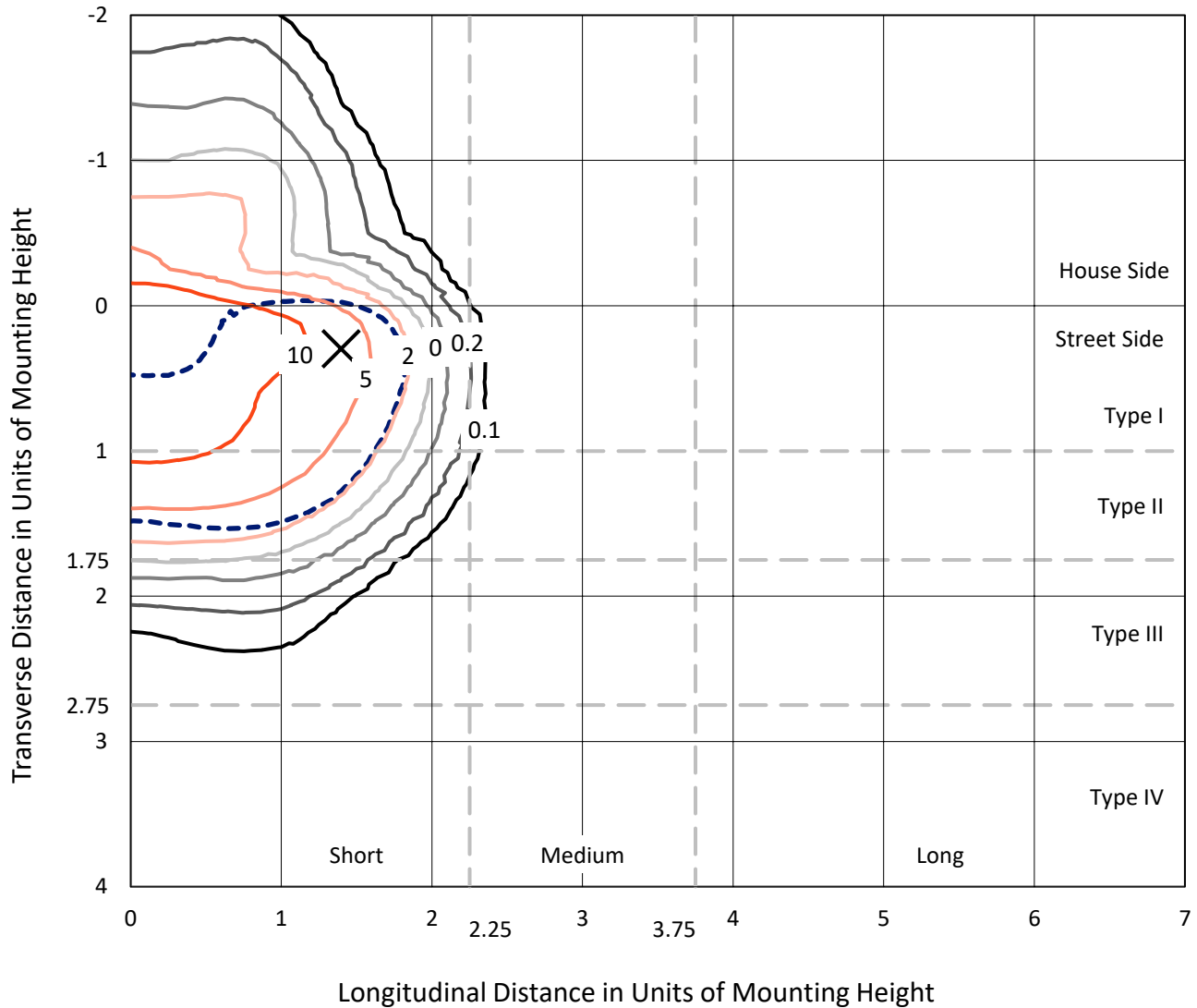
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

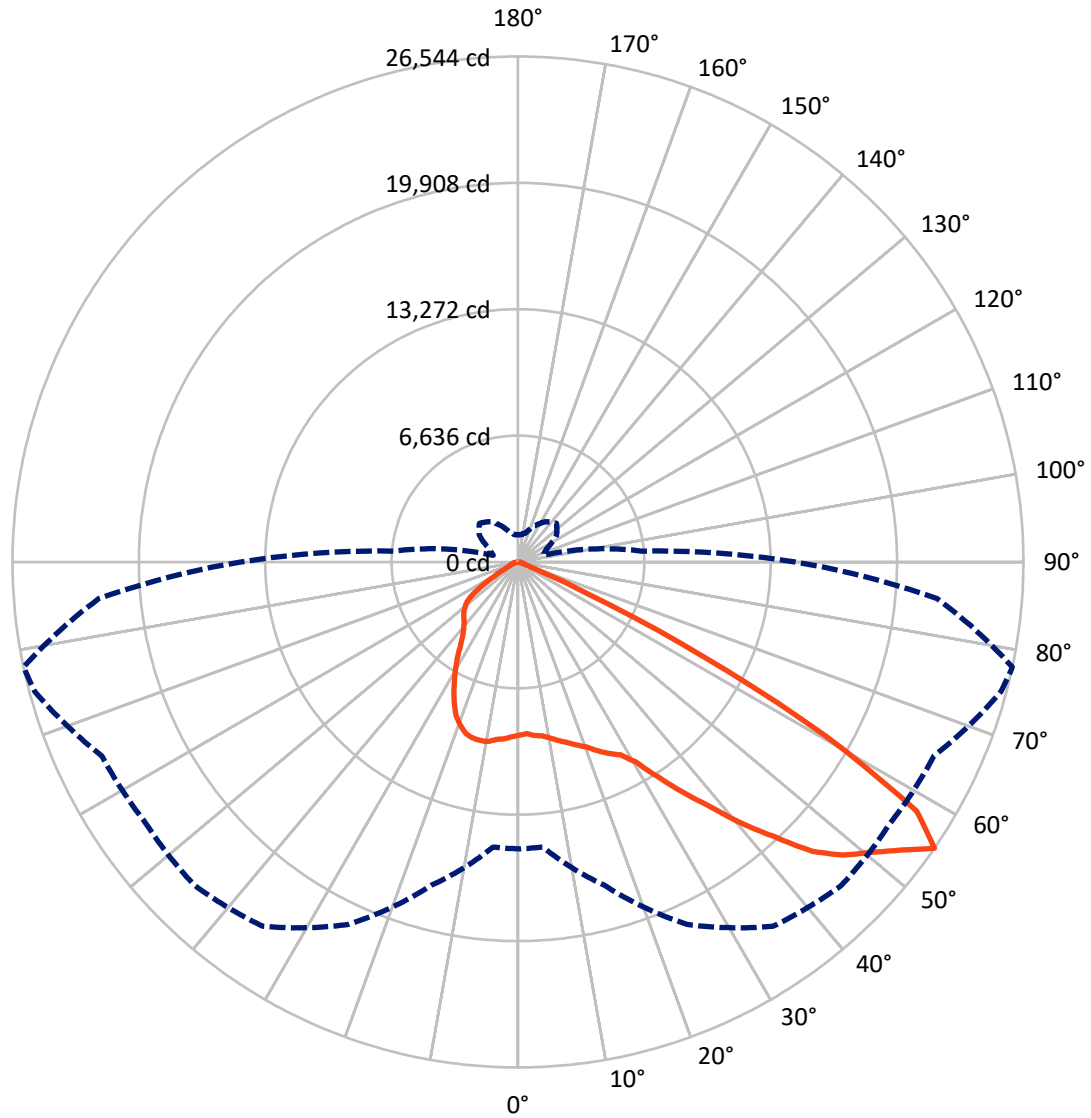
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6573.5	0.0	6573.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	28817.5	0.0	28817.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	35391.0	0.0	35391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.3	2.3
10°-20°	2147.2	6.1
20°-30°	3763.7	10.6
30°-40°	6205.9	17.5
40°-50°	9030.4	25.5
50°-60°	10232.4	28.9
60°-70°	2925.6	8.3
70°-80°	227.2	0.6
80°-90°	47.3	0.1
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°	35391.0	100.0
0°-180°	35391.0	100.0

Coefficient of Utilization



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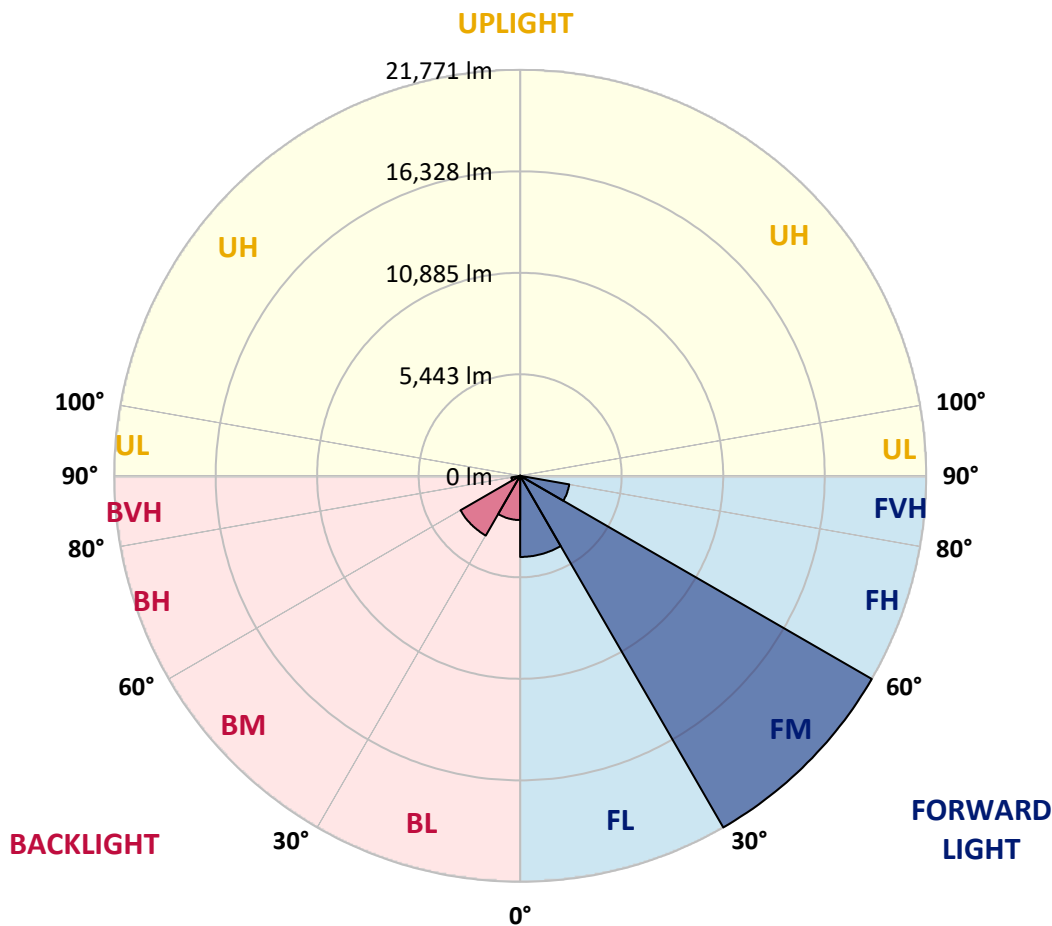
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4350.6	12.3			
FM (30°-60°)	21771.0	61.5			
FH (60°-80°)	2672.9	7.6			G2/5000
FVH (80°-90°)	23.0	0.1			G1/100
BL (0°-30°)	2371.7	6.7	B3/2500		
BM (30°-60°)	3697.7	10.4	B3/5000		
BH (60°-80°)	479.8	1.4	B1/500		G1/500
BVH (80°-90°)	24.2	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°	78°	85°
0°	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0
2.5°	8554.9	8637.1	8649.8	8751.0	8744.7	8915.5	8966.2	8972.5	9086.4	9029.4	9175.0
5°	8314.4	8270.1	8251.2	8428.3	8478.9	8630.8	8757.4	8833.3	9067.4	9149.7	9301.5
7.5°	8099.3	8099.3	8111.9	8270.1	8251.2	8447.3	8580.2	8814.3	9156.0	9225.6	9409.1
10°	7890.5	7814.6	7909.5	8074.0	8213.2	8301.8	8580.2	8801.7	9200.3	9402.8	9655.9
12.5°	7782.9	7820.9	7833.5	7953.8	8105.6	8371.4	8523.2	8890.2	9516.7	9636.9	9909.0
15°	8460.0	8384.0	8200.5	8093.0	8219.5	8346.1	8725.7	9099.0	9681.2	9852.0	10155.8
17.5°	9244.6	9181.3	9029.4	8738.4	8453.6	8687.8	8985.2	9326.8	9858.4	10111.5	10560.7
20°	10269.6	10168.4	10016.5	9447.1	9200.3	8947.2	9263.6	9668.5	10149.4	10377.2	10839.1
22.5°	11490.9	11490.9	11149.2	10459.5	9946.9	9706.5	9839.4	10073.5	10472.1	10782.2	11237.8
25°	12762.7	12724.7	12414.7	11699.7	10832.8	10548.1	10699.9	10864.4	10972.0	11142.9	11446.6
27.5°	14218.1	13996.6	13604.3	12813.3	12047.7	11497.2	11661.7	11516.2	11383.3	11471.9	11908.5
30°	15205.2	15344.4	14844.5	14085.2	13363.8	12750.1	12781.7	12655.1	12047.7	12174.2	12433.7
32.5°	16230.2	16318.8	16040.4	15622.8	14901.4	14186.4	13927.0	13819.4	13363.8	13420.8	13167.7
35°	17084.4	17255.3	17008.5	16825.0	16616.2	16040.4	15325.4	15673.4	14939.4	14800.2	14142.1
37.5°	17869.1	17818.4	18109.5	17919.7	17875.4	17470.4	16685.8	16755.4	16261.9	16230.2	15470.9
40°	18571.4	18584.1	18982.7	19071.3	18894.1	18172.8	17033.8	17584.3	17983.0	18020.9	17046.5
42.5°	19153.6	19324.4	19666.1	20381.1	20115.3	18913.1	17394.5	17995.6	19476.3	19710.4	18539.8
45°	19659.8	20007.8	20431.7	21070.8	20918.9	19963.5	18293.0	18843.5	21070.8	21684.6	19944.5
47.5°	19691.4	20147.0	20608.9	21558.0	21747.9	20526.6	19223.2	20185.0	22336.3	23000.7	20969.6
50°	19564.8	19805.3	20729.1	21760.5	22190.8	21444.1	20526.6	21311.3	23563.9	23981.5	21488.4
52.5°	18065.2	18248.7	20102.7	21950.3	22988.1	22481.9	22254.1	22880.5	24816.7	25126.8	21975.7
55°	15059.6	15028.0	17578.0	20994.9	23355.1	24019.5	23880.3	24101.7	26265.7	26544.2	22095.9
57.5°	10301.3	10877.1	13079.1	17483.1	21108.8	23658.8	23804.3	23437.3	24576.3	24683.9	19261.1
60°	5555.6	5796.1	7567.8	11668.0	16072.0	19280.1	19659.8	18995.4	18906.8	18603.1	13749.8
62.5°	2208.3	2328.5	3334.6	5777.1	8757.4	11718.7	12534.9	12262.8	11680.7	10883.4	7118.5
65°	1050.4	1126.3	1657.8	2701.9	3885.1	4884.9	5701.1	5954.2	4391.3	3954.7	2347.5
67.5°	715.0	772.0	1208.6	1543.9	1385.7	1449.0	1885.6	1752.7	1031.4	879.5	651.7
70°	544.2	582.1	968.1	1050.4	620.1	436.6	487.2	455.6	423.9	430.3	423.9
72.5°	386.0	417.6	708.7	620.1	272.1	202.5	259.4	310.1	310.1	310.1	303.7
75°	234.1	265.8	411.3	240.4	107.6	107.6	164.5	208.8	221.5	227.8	215.1
77.5°	120.2	151.9	139.2	69.6	69.6	82.3	120.2	145.5	158.2	158.2	151.9
80°	25.3	25.3	25.3	38.0	69.6	88.6	120.2	132.9	151.9	151.9	139.2
82.5°	0.0	6.3	19.0	38.0	63.3	82.3	113.9	132.9	151.9	158.2	145.5
85°	0.0	6.3	12.7	25.3	44.3	50.6	44.3	38.0	38.0	38.0	38.0
87.5°	0.0	0.0	6.3	6.3	6.3	12.7	12.7	12.7	12.7	12.7	12.7
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°	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0	9099.0
2.5°	9187.6	9206.6	9175.0	9168.7	9143.3	9219.3	9035.8	8991.5	9105.4	8997.8	9023.1
5°	9307.9	9352.1	9295.2	9200.3	9061.1	8845.9	8662.4	8422.0	8308.1	8225.8	8213.2
7.5°	9396.4	9428.1	9371.1	9067.4	8649.8	8105.6	7700.7	7403.3	7169.1	7099.5	6985.6
10°	9757.1	9763.4	9478.7	8808.0	7991.7	7276.7	6656.6	6201.0	5966.9	5821.4	5758.1
12.5°	9997.6	9984.9	9409.1	8295.4	7207.1	6258.0	5549.3	4998.8	4783.6	4714.0	4669.7
15°	10301.3	10231.7	9244.6	7770.3	6194.7	5169.6	4530.5	4150.9	4131.9	4087.6	4131.9
17.5°	10541.7	10345.6	9004.1	6814.8	5226.6	4258.5	3840.8	3866.1	3916.8	3961.1	3967.4
20°	10934.0	10529.1	8453.6	5979.6	4328.1	3651.0	3644.7	3758.6	3885.1	3935.7	3986.4
22.5°	11231.4	10605.0	7865.2	5087.4	3594.1	3404.2	3511.8	3682.6	3777.6	3828.2	3904.1
25°	11339.0	10396.2	7080.6	4195.2	3239.7	3290.3	3454.9	3568.7	3689.0	3745.9	3714.3
27.5°	11446.6	10288.6	6144.1	3454.9	3049.9	3214.4	3353.6	3467.5	3505.5	3581.4	3632.0
30°	11706.0	9915.3	5302.5	2986.6	2955.0	3163.8	3265.0	3303.0	3404.2	3448.5	3448.5
32.5°	11914.8	9769.8	4410.3	2765.1	2942.3	3189.1	3201.8	3201.8	3214.4	3182.8	3170.1
35°	12345.1	9269.9	3613.0	2632.3	2936.0	3195.4	3227.1	3119.5	2828.4	2714.5	2682.9
37.5°	12876.6	8947.2	3024.6	2600.6	2980.3	3271.4	3322.0	2917.0	2537.4	2353.9	2322.2
40°	13522.0	8719.4	2638.6	2588.0	3081.5	3448.5	3296.7	2758.8	2265.3	1999.5	1986.9
42.5°	14275.0	8510.6	2379.2	2581.6	3208.1	3632.0	3271.4	2625.9	1986.9	1809.7	1835.0
45°	14876.1	8396.7	2202.0	2537.4	3252.4	3739.6	3290.3	2391.8	1873.0	1759.1	1771.7
47.5°	15344.4	8156.2	2056.5	2461.4	3246.0	3777.6	3119.5	2296.9	1816.0	1847.7	1879.3
50°	15357.0	7833.5	1873.0	2296.9	3151.1	3708.0	2923.3	2208.3	1803.4	1936.2	1999.5
52.5°	15186.2	7377.9	1676.8	2062.8	2929.7	3467.5	2746.2	2170.4	1746.4	1733.8	1809.7
55°	14578.7	6523.7	1347.8	1670.5	2474.1	2860.1	2588.0	2100.8	1575.6	1430.0	1442.7
57.5°	11781.9	4676.1	993.4	1195.9	1752.7	2094.4	2334.9	2069.1	1417.4	1214.9	1221.2
60°	7295.7	2651.3	727.7	816.3	1082.0	1271.8	1891.9	1923.6	1265.5	1025.1	1012.4
62.5°	3745.9	1309.8	563.2	575.8	664.4	746.7	1297.2	1613.5	1145.3	974.4	974.4
65°	1252.9	645.4	493.6	442.9	442.9	461.9	784.6	1120.0	968.1	816.3	816.3
67.5°	537.8	480.9	430.3	386.0	354.3	335.4	442.9	651.7	721.3	620.1	594.8
70°	417.6	405.0	373.3	322.7	278.4	253.1	259.4	335.4	411.3	398.6	386.0
72.5°	310.1	310.1	297.4	253.1	215.1	183.5	170.8	177.2	196.2	202.5	208.8
75°	215.1	221.5	221.5	196.2	158.2	132.9	113.9	94.9	75.9	63.3	56.9
77.5°	145.5	151.9	164.5	145.5	120.2	88.6	69.6	50.6	31.6	12.7	12.7
80°	126.6	145.5	158.2	145.5	126.6	94.9	69.6	38.0	19.0	0.0	0.0
82.5°	132.9	145.5	164.5	139.2	120.2	88.6	69.6	44.3	19.0	6.3	0.0
85°	31.6	31.6	38.0	44.3	56.9	63.3	50.6	31.6	19.0	6.3	0.0
87.5°	12.7	12.7	12.7	12.7	12.7	6.3	6.3	6.3	6.3	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)