

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: P533361

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533361
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-SA8D-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 34327 lumens
Efficiency: N/A
Efficacy: 69.6 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

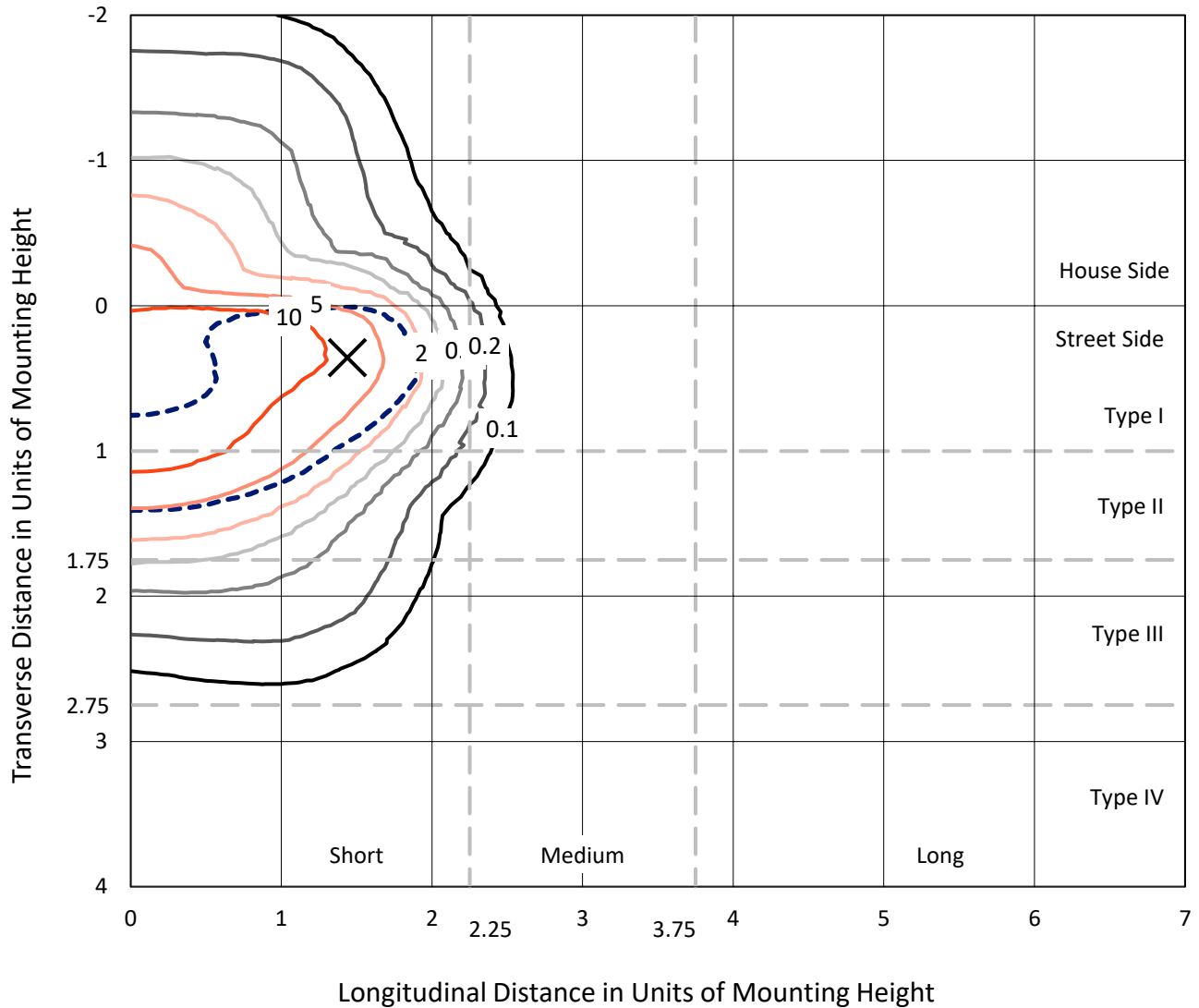
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

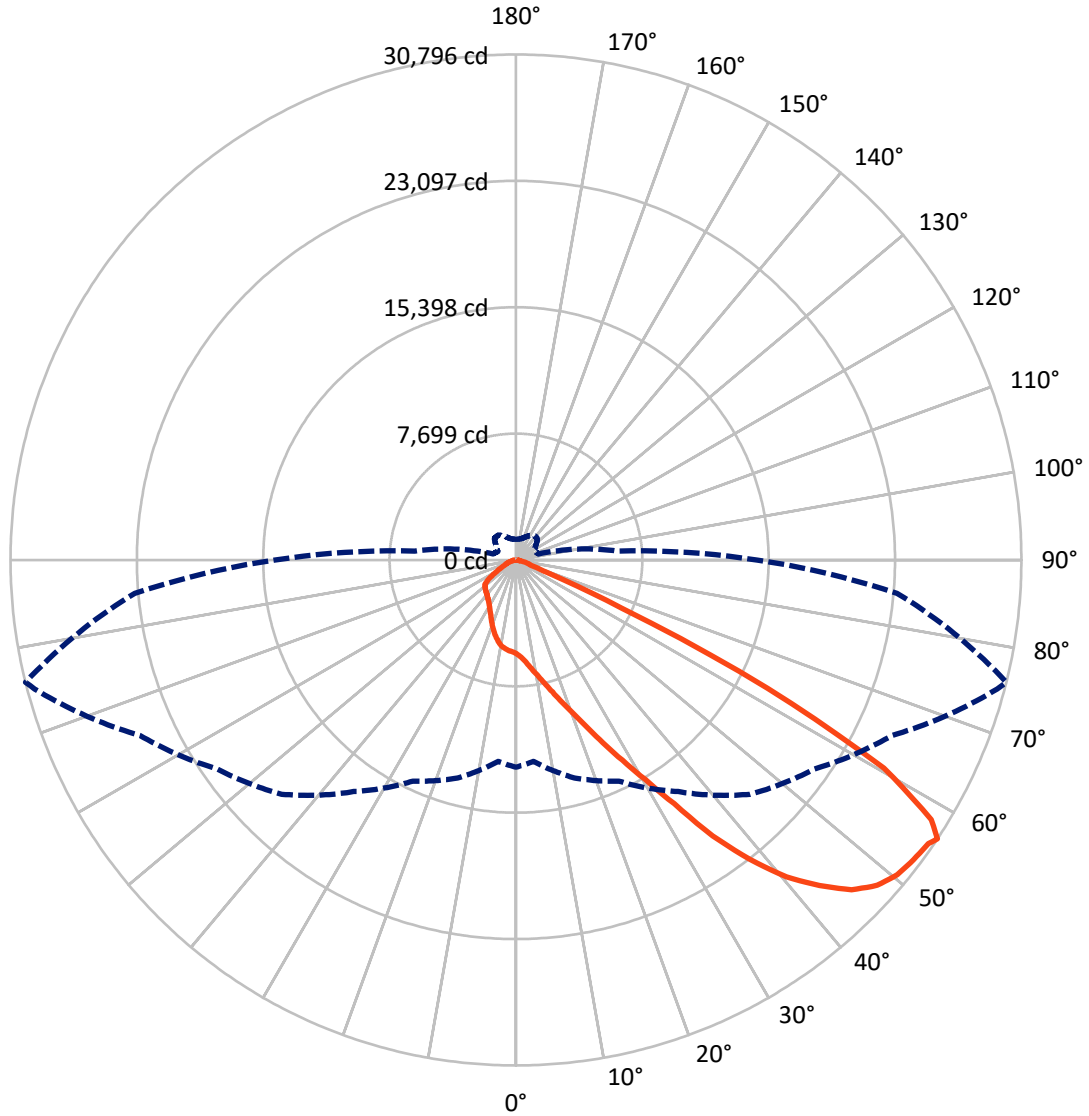
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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	5392.6	0.0	5392.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	28934.4	0.0	28934.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	34327.0	0.0	34327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.6	1.7
10°-20°	1849.1	5.4
20°-30°	3353.0	9.8
30°-40°	5782.4	16.8
40°-50°	9393.7	27.4
50°-60°	9901.2	28.8
60°-70°	3025.3	8.8
70°-80°	387.8	1.1
80°-90°	58.9	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°	34327.0	100.0
0°-180°	34327.0	100.0

Coefficient of Utilization

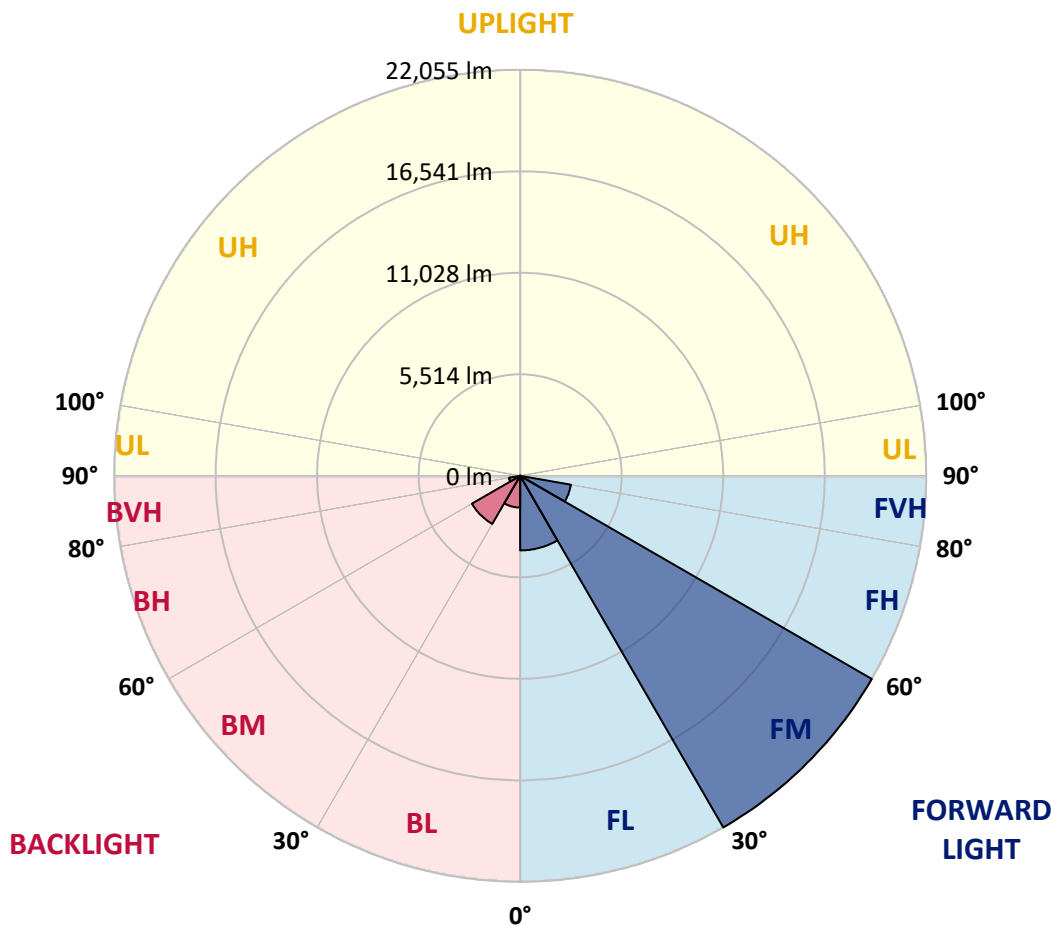


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4052.6	11.8			
FM (30°-60°)	22055.1	64.2			
FH (60°-80°)	2797.9	8.2			G2/5000
FVH (80°-90°)	28.9	0.1			G1/100
BL (0°-30°)	1725.1	5.0	B3/2500		
BM (30°-60°)	3022.2	8.8	B3/5000		
BH (60°-80°)	615.2	1.8	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: 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°	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8
2.5°	6580.7	6428.8	6435.1	6422.5	6403.5	6333.9	6125.1	6093.4	5954.2	5916.3	5789.7
5°	7371.6	7238.7	7314.7	7200.8	7093.2	7029.9	6688.2	6530.0	6308.6	6226.3	6049.1
7.5°	7865.1	7801.9	7776.6	7782.9	7681.6	7523.5	7371.6	7023.6	6726.2	6662.9	6289.6
10°	8105.6	8067.6	8105.6	8086.6	8130.9	8149.9	7884.1	7675.3	7238.7	7131.2	6549.0
12.5°	8162.5	8238.5	8270.1	8352.4	8459.9	8643.4	8624.5	8339.7	7757.6	7688.0	6947.7
15°	8301.8	8365.0	8333.4	8466.3	8668.7	8978.8	9143.3	9099.0	8472.6	8346.0	7409.6
17.5°	8428.3	8314.4	8422.0	8687.7	8890.2	9364.8	9763.4	9946.9	9250.9	9105.3	7833.5
20°	8599.1	8567.5	8548.5	8681.4	9042.1	9674.8	10465.8	10801.1	10124.1	9972.2	8441.0
22.5°	9118.0	9124.3	9111.7	8915.5	9175.0	9890.0	11079.5	11908.5	11168.1	11041.6	9130.7
25°	9801.4	9719.1	9655.8	9497.7	9466.0	10086.1	11699.6	13262.6	12421.0	12332.4	9877.3
27.5°	10522.7	10522.7	10332.9	10187.4	9984.9	10573.3	12269.1	14578.7	13933.3	13813.0	10529.0
30°	11307.3	11351.6	11326.3	11016.3	10889.7	11104.9	12851.3	16261.8	15667.0	15515.2	11604.7
32.5°	12465.3	12370.4	12477.9	12218.5	11845.2	12035.0	13768.8	17767.8	17919.6	17704.5	13015.8
35°	13996.5	13939.6	13870.0	13446.1	13003.1	13155.0	15065.9	19621.7	20748.0	20640.5	14439.5
37.5°	15369.6	15338.0	15281.0	14990.0	14477.4	14660.9	16540.2	21551.6	23506.9	23152.5	16451.6
40°	16812.3	16983.2	16799.7	16540.2	16072.0	16476.9	18274.0	22696.9	25829.1	25398.8	17989.2
42.5°	18767.5	18634.6	18716.9	18242.3	17989.2	18432.2	20014.1	23842.2	27632.4	27119.9	19621.7
45°	20849.3	20855.6	20634.2	20482.3	19824.2	20305.1	21083.4	24475.0	29068.8	28670.1	20855.6
47.5°	22184.4	22178.1	22418.5	22659.0	21981.9	21507.4	21811.1	25076.1	29809.1	29625.6	21304.9
50°	21975.6	22038.9	22348.9	23247.4	23601.8	22962.7	22494.5	24898.9	30144.5	30125.5	21690.9
52.5°	19115.5	19324.3	19843.2	21140.4	22924.7	23715.7	23209.5	25228.0	30309.0	30340.6	22266.7
55°	14553.4	14667.3	15654.4	17229.9	19204.1	21912.3	22924.7	25487.4	30435.5	30492.5	22962.7
56°	12623.5	12319.7	13743.4	14863.4	17223.6	20184.9	22203.4	25284.9	30359.6	30796.2	23310.7
57.5°	9529.3	9326.8	10478.4	11876.8	14148.4	17274.2	19963.4	24329.4	29847.1	29840.7	22810.8
60°	5796.0	5593.6	6479.4	7302.0	8573.8	10636.6	13490.3	19375.0	25234.3	25765.8	18470.1
62.5°	3448.5	3575.1	4448.3	4948.1	5359.4	5574.6	6979.3	11516.1	16837.6	17217.3	11459.2
65°	2296.9	2341.2	2999.3	3821.8	4005.3	3189.1	2841.1	4663.4	7302.0	7067.9	4726.7
67.5°	1417.4	1518.6	2012.2	2872.7	3182.8	2328.5	1347.8	1740.1	2012.2	2012.2	1366.8
70°	860.5	911.2	1341.4	1955.2	2183.0	1499.6	980.8	980.8	968.1	949.1	816.3
72.5°	411.3	442.9	683.4	1006.1	1025.1	790.9	759.3	828.9	809.9	803.6	677.0
75°	177.2	189.8	240.4	316.4	360.7	335.4	461.9	594.8	613.8	594.8	487.2
77.5°	56.9	63.3	88.6	113.9	120.2	145.5	196.2	246.8	284.7	265.8	240.4
80°	6.3	12.7	25.3	56.9	88.6	113.9	145.5	164.5	183.5	183.5	170.8
82.5°	6.3	6.3	25.3	50.6	82.3	107.6	139.2	158.2	183.5	189.8	177.2
85°	0.0	6.3	19.0	44.3	69.6	69.6	63.3	63.3	44.3	44.3	44.3
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°	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8	5713.8
2.5°	5764.4	5751.7	5580.9	5473.3	5416.4	5302.5	5232.9	5182.3	5144.3	5100.0	5106.3
5°	5840.3	5796.0	5511.3	5315.1	5081.0	4954.5	4846.9	4758.3	4701.4	4688.7	4663.4
7.5°	6055.5	5821.3	5391.1	5036.7	4739.3	4612.8	4517.9	4460.9	4486.2	4429.3	4473.6
10°	6220.0	5872.0	5245.5	4733.0	4435.6	4340.7	4290.1	4334.4	4397.6	4372.3	4340.7
12.5°	6422.5	5922.6	5011.4	4441.9	4163.5	4093.9	4182.5	4264.8	4391.3	4441.9	4378.7
15°	6650.3	5979.5	4714.0	4106.6	3929.4	3986.4	4138.2	4283.8	4410.3	4473.6	4511.5
17.5°	6928.7	5960.6	4423.0	3840.8	3707.9	3872.5	4056.0	4188.8	4378.7	4473.6	4448.3
20°	7188.1	5897.3	4100.3	3575.1	3581.4	3733.3	3885.1	4100.3	4201.5	4328.0	4283.8
22.5°	7434.9	5783.4	3764.9	3391.6	3391.6	3625.7	3701.6	3840.8	3929.4	3992.7	3986.4
25°	7782.9	5568.2	3486.5	3214.4	3290.3	3442.2	3505.5	3549.8	3511.8	3562.4	3568.7
27.5°	8029.7	5346.8	3258.7	3056.2	3195.4	3309.3	3290.3	3265.0	3176.4	3106.8	3151.1
30°	8295.4	5087.4	3062.5	2948.6	3024.6	3125.8	3049.9	2974.0	2834.7	2720.8	2727.2
32.5°	8675.1	4967.1	2891.7	2822.1	2923.3	2936.0	2853.7	2739.8	2600.6	2493.1	2486.7
35°	9383.8	4891.2	2746.2	2739.8	2758.8	2765.1	2682.9	2543.7	2486.7	2398.1	2429.8
37.5°	10092.4	4853.2	2644.9	2619.6	2613.3	2619.6	2524.7	2391.8	2499.4	2493.1	2505.7
40°	10997.3	5024.1	2499.4	2467.7	2474.1	2474.1	2353.8	2315.9	2505.7	2524.7	2531.0
42.5°	11914.8	5239.2	2404.5	2303.2	2328.5	2328.5	2265.3	2221.0	2353.8	2227.3	2208.3
45°	12712.1	5555.6	2303.2	2138.7	2202.0	2233.6	2214.6	2138.7	2056.5	1841.3	1841.3
47.5°	12971.5	5834.0	2183.0	1980.5	2031.1	2170.4	2113.4	1955.2	1809.7	1632.5	1619.9
50°	13427.1	6137.7	2088.1	1797.0	1904.6	2075.4	2018.5	1860.3	1695.8	1569.2	1575.6
52.5°	13895.3	6485.7	1910.9	1581.9	1714.8	1999.5	1999.5	1822.3	1569.2	1480.6	1468.0
55°	14597.7	6473.1	1594.5	1297.1	1531.3	1885.6	1917.2	1632.5	1404.7	1335.1	1335.1
56°	14698.9	6182.0	1436.4	1214.9	1449.0	1854.0	1860.3	1581.9	1341.4	1265.5	1265.5
57.5°	13939.6	5580.9	1259.2	1113.6	1347.8	1797.0	1803.4	1537.6	1290.8	1183.3	1170.6
60°	10725.2	3777.5	1050.4	993.4	1221.2	1619.9	1651.5	1398.4	1132.6	1050.4	1044.0
62.5°	6055.5	2094.4	923.8	898.5	1050.4	1379.4	1474.3	1221.2	961.8	917.5	930.2
65°	2765.1	1151.6	778.3	727.7	847.9	1063.0	1189.6	1006.1	790.9	740.3	740.3
67.5°	1012.4	784.6	664.4	575.8	594.8	689.7	772.0	651.7	525.2	449.3	468.2
70°	721.3	658.1	582.1	499.9	461.9	449.3	442.9	367.0	259.4	202.5	215.1
72.5°	582.1	544.2	487.2	423.9	360.7	303.7	259.4	189.8	120.2	82.3	75.9
75°	417.6	398.6	354.3	303.7	253.1	215.1	177.2	120.2	63.3	31.6	31.6
77.5°	215.1	215.1	208.8	189.8	158.2	126.6	101.2	69.6	38.0	12.7	12.7
80°	164.5	177.2	183.5	164.5	145.5	113.9	82.3	50.6	25.3	6.3	6.3
82.5°	158.2	183.5	196.2	170.8	145.5	107.6	82.3	50.6	25.3	6.3	6.3
85°	38.0	38.0	56.9	63.3	82.3	88.6	69.6	44.3	19.0	6.3	6.3
87.5°	12.7	12.7	12.7	12.7	12.7	12.7	6.3	6.3	6.3	6.3	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)