

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: P533365

Luminaire Tested: **GALN-SA8D-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533365
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-SA8D-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 34750 lumens
Efficiency: N/A
Efficacy: 70.5 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

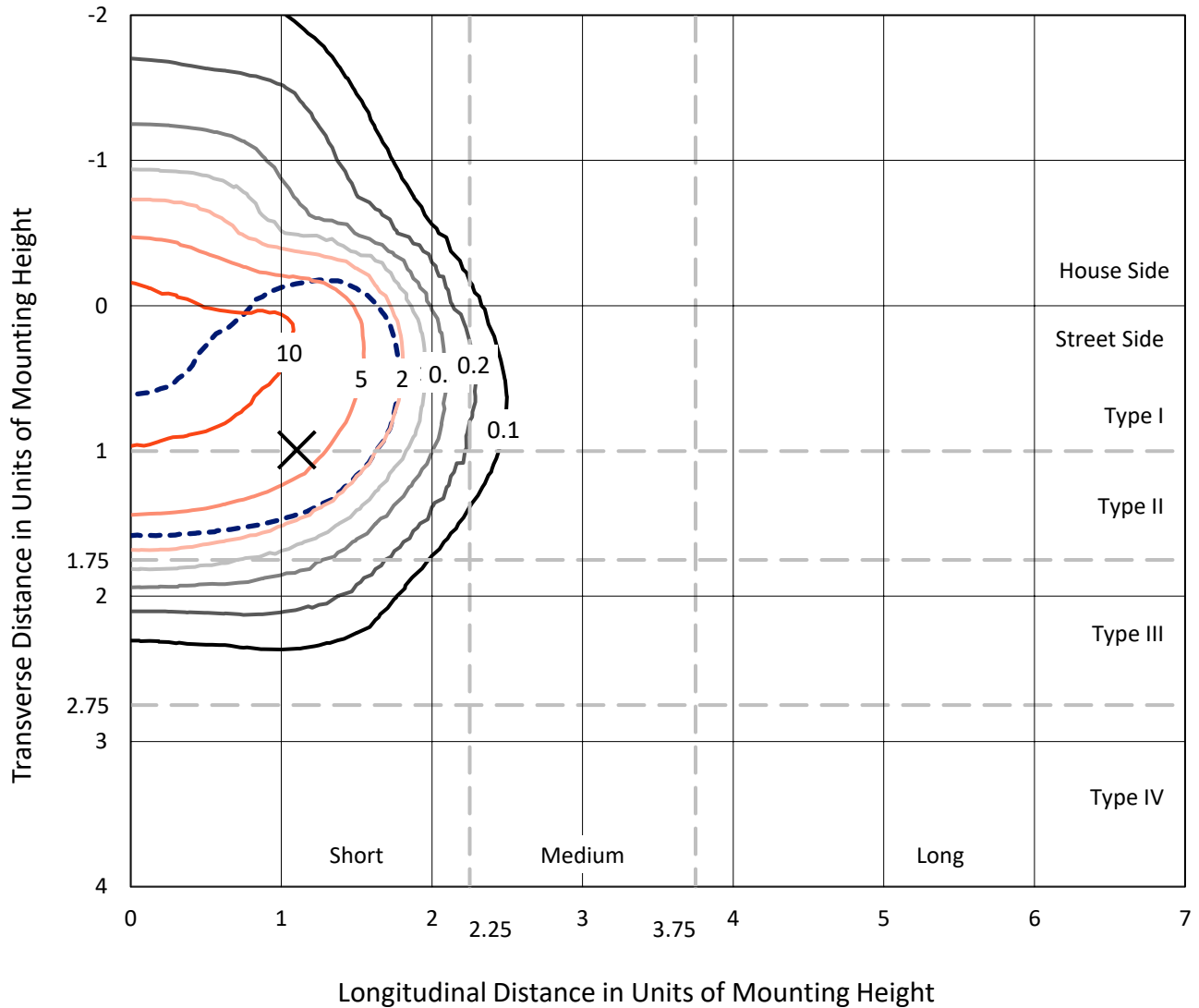
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

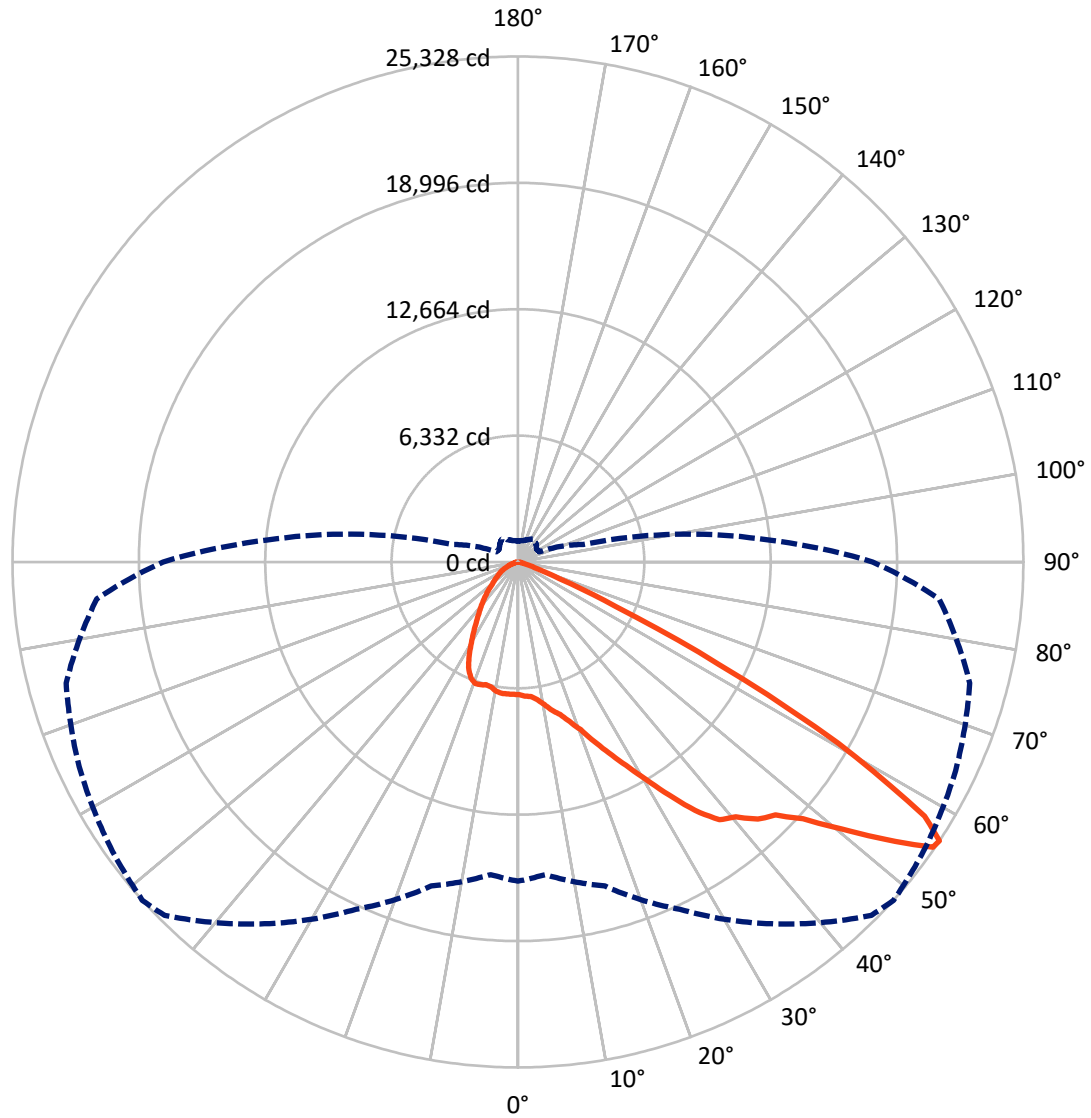
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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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	7557.5	0.0	7557.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	27192.5	0.0	27192.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	34750.0	0.0	34750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.5	1.9
10°-20°	2066.2	5.9
20°-30°	3747.7	10.8
30°-40°	5887.0	16.9
40°-50°	8588.0	24.7
50°-60°	10346.9	29.8
60°-70°	3029.5	8.7
70°-80°	384.3	1.1
80°-90°	53.9	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°	34750.0	100.0
0°-180°	34750.0	100.0

Coefficient of Utilization

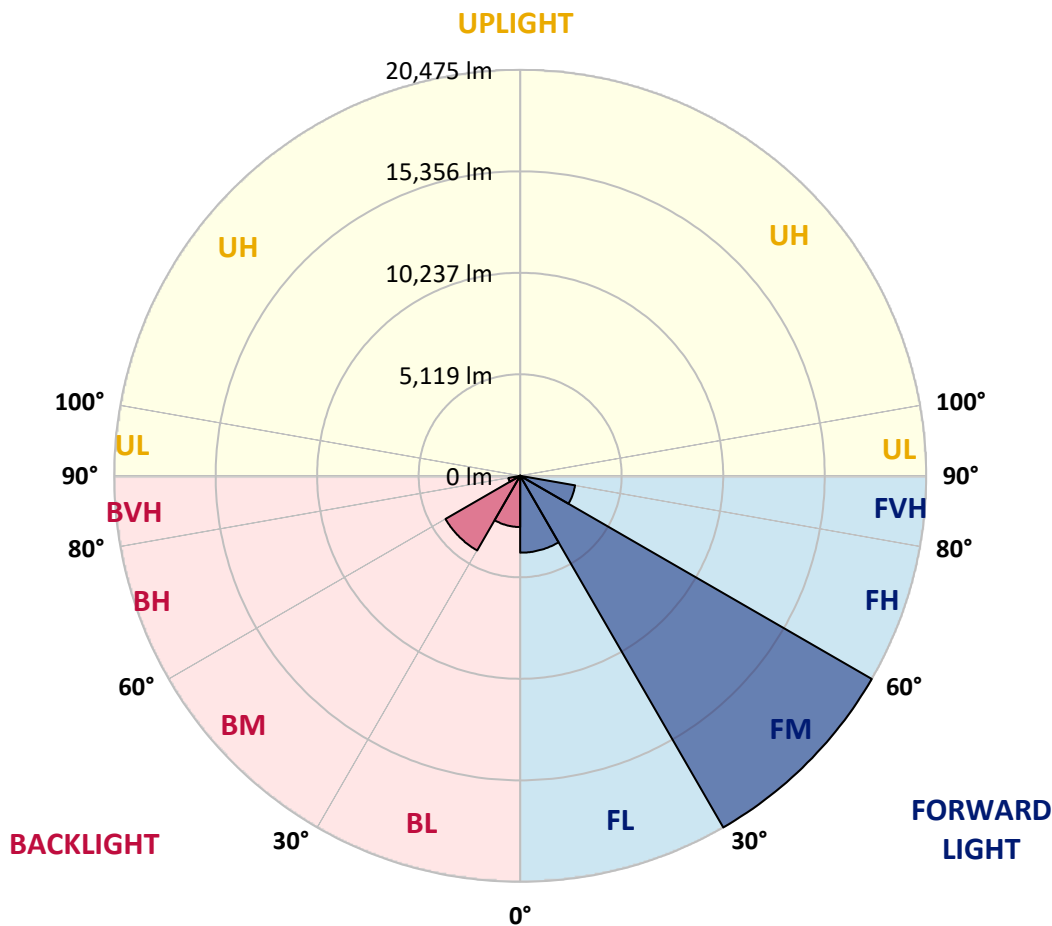


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3877.4	11.2			
FM (30°-60°)	20474.8	58.9			
FH (60°-80°)	2813.3	8.1			G2/5000
FVH (80°-90°)	27.1	0.1			G1/100
BL (0°-30°)	2583.1	7.4	B4/5000		
BM (30°-60°)	4347.0	12.5	B3/5000		
BH (60°-80°)	600.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	26.8	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°	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3
2.5°	6757.5	6725.8	6725.8	6675.2	6732.2	6706.9	6725.8	6662.6	6725.8	6630.9	6706.9
5°	6789.1	6795.4	6770.1	6801.8	6801.8	6839.7	6776.5	6833.4	6865.0	6795.4	6763.8
7.5°	6953.6	6966.3	6960.0	6934.6	6985.3	6978.9	6972.6	6928.3	6941.0	6915.7	6877.7
10°	7276.3	7270.0	7301.6	7238.4	7200.4	7244.7	7257.3	7187.7	7137.1	7118.1	6997.9
12.5°	7744.5	7668.6	7624.3	7561.0	7580.0	7516.8	7630.6	7510.4	7485.1	7371.2	7251.0
15°	8124.2	8111.5	8117.8	8016.6	7902.7	7928.0	7928.0	7864.7	7826.8	7687.6	7516.8
17.5°	8902.4	8636.7	8693.6	8567.1	8472.2	8465.8	8408.9	8421.5	8320.3	8029.3	7769.8
20°	9509.8	9395.9	9307.4	9092.2	8946.7	8991.0	8965.7	8902.4	8870.8	8491.1	8124.2
22.5°	10054.0	10091.9	9946.4	9889.5	9687.0	9706.0	9756.6	9699.6	9459.2	9066.9	8522.8
25°	10819.6	10775.3	10579.1	10509.5	10319.7	10389.3	10585.5	10541.2	10389.3	9680.7	8832.8
27.5°	11724.4	11572.5	11610.5	11294.1	11110.6	11306.8	11540.9	11762.3	11332.1	10402.0	9199.8
30°	12363.4	12205.2	12192.6	12179.9	12135.6	12363.4	12635.5	12838.0	12490.0	11123.3	9807.2
32.5°	12679.8	12717.7	12825.3	12787.3	13173.3	13641.5	13926.2	14217.3	13780.7	12300.1	10610.8
35°	13521.3	13280.9	13521.3	13546.6	13945.2	14938.6	15299.2	15995.2	15887.7	13964.2	11591.5
37.5°	14014.8	13995.8	14027.5	14267.9	14653.9	15881.3	16393.9	16931.7	16729.2	14963.9	12812.6
40°	14831.0	14881.6	14875.3	15058.8	15482.7	16590.0	16798.8	17235.4	17254.4	16349.6	14609.6
42.5°	16140.8	15938.3	15805.4	15995.2	16590.0	17203.7	17621.3	17532.8	18159.2	18032.6	16919.0
45°	17317.6	17437.8	17241.7	17558.1	17773.2	18102.2	18089.6	18279.4	19076.6	19677.7	18659.0
47.5°	18418.6	18494.5	18589.4	18804.5	19272.7	19323.4	19215.8	19133.5	20234.5	20854.6	20006.7
50°	19076.6	19146.2	19589.1	19975.1	20848.2	20962.1	21025.4	20816.6	21563.2	21632.8	21278.5
52.5°	18899.4	18975.4	19595.4	20867.2	22259.2	23303.2	23113.4	22759.0	22714.8	22986.8	22455.3
55°	17330.3	17260.7	18114.9	20095.3	22702.1	25207.7	25233.0	24859.7	24144.7	23961.2	22278.2
56°	15995.2	15723.2	16811.5	19203.1	22132.7	25043.2	25327.9	24929.3	24258.6	23436.1	21183.6
57.5°	13103.7	13363.1	14445.1	16425.5	20164.9	23860.0	24024.5	23929.6	23423.4	22044.1	18640.0
60°	7225.7	7681.3	8636.7	11060.0	14356.5	18311.0	18443.9	19215.8	19310.7	16881.1	12825.3
62.5°	3068.7	3018.1	4011.5	5795.7	8174.8	11053.7	11300.4	12091.3	12236.9	9731.3	6434.8
65°	1246.5	1316.1	1815.9	2916.9	4321.5	5036.5	5384.5	5643.9	6124.8	4017.8	2372.7
67.5°	822.5	816.2	1069.3	1664.1	2328.4	2246.2	2246.2	2372.7	2195.5	1638.8	1025.0
70°	588.4	607.4	765.6	1151.6	1448.9	1075.6	1031.3	987.0	1119.9	1082.0	828.9
72.5°	386.0	411.3	512.5	689.7	752.9	588.4	588.4	708.6	923.8	873.2	677.0
75°	253.1	259.4	316.4	398.6	373.3	303.7	335.3	474.5	670.7	645.4	480.9
77.5°	170.8	177.2	215.1	259.4	208.8	170.8	183.5	240.4	329.0	329.0	253.1
80°	63.3	69.6	88.6	82.3	94.9	120.2	132.9	164.5	196.1	196.1	170.8
82.5°	0.0	6.3	19.0	44.3	69.6	94.9	107.6	126.5	145.5	164.5	158.2
85°	0.0	6.3	19.0	31.6	50.6	56.9	63.3	44.3	38.0	38.0	31.6
87.5°	0.0	0.0	6.3	6.3	6.3	6.3	6.3	6.3	12.7	6.3	6.3
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°	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3	6637.3
2.5°	6637.3	6630.9	6630.9	6612.0	6649.9	6630.9	6643.6	6637.3	6555.0	6618.3	6574.0
5°	6706.9	6751.2	6681.6	6668.9	6618.3	6637.3	6637.3	6574.0	6630.9	6624.6	6612.0
7.5°	6884.0	6808.1	6732.2	6656.2	6643.6	6624.6	6555.0	6529.7	6574.0	6523.4	6599.3
10°	6960.0	6972.6	6858.7	6757.5	6662.6	6529.7	6434.8	6377.8	6308.2	6384.2	6428.5
12.5°	7308.0	7181.4	6985.3	6827.1	6504.4	6371.5	6276.6	6251.3	6371.5	6396.8	6352.5
15°	7428.2	7409.2	7156.1	6801.8	6466.4	6308.2	6327.2	6276.6	6289.3	6226.0	6238.6
17.5°	7674.9	7459.8	7162.4	6719.5	6460.1	6422.1	6308.2	6105.8	5991.9	5941.3	5985.6
20°	7947.0	7738.2	7308.0	6751.2	6517.0	6415.8	6042.5	5795.7	5561.6	5435.1	5441.4
22.5°	8187.4	7928.0	7244.7	6763.8	6567.7	6150.1	5700.8	5213.6	4922.6	4726.4	4732.8
25°	8478.5	8111.5	7270.0	6789.1	6434.8	5726.1	5080.8	4606.2	4258.2	4125.4	4169.6
27.5°	8643.0	8225.4	7409.2	6846.1	6086.8	5125.1	4429.1	3986.2	3783.7	3720.4	3714.1
30°	9136.5	8478.5	7580.0	6732.2	5504.7	4479.7	3834.3	3562.2	3366.1	3309.1	3321.8
32.5°	9870.5	8940.4	7801.5	6434.8	4909.9	3903.9	3448.3	3245.9	3062.4	2954.8	2942.2
35°	10484.2	9731.3	8035.6	5972.9	4220.3	3461.0	3176.3	2923.2	2644.8	2524.6	2492.9
37.5°	11654.8	10623.4	7985.0	5276.9	3562.2	3132.0	2885.2	2575.2	2334.7	2170.2	2151.3
40°	13211.3	11667.4	7738.2	4429.1	3075.0	2840.9	2575.2	2277.8	1980.4	1841.2	1828.6
42.5°	15103.1	12945.5	7289.0	3568.6	2587.8	2549.9	2309.4	1967.8	1702.0	1600.8	1607.1
45°	16640.6	14040.1	6833.4	2866.2	2227.2	2265.1	2056.3	1733.7	1550.2	1467.9	1467.9
47.5°	18007.3	14780.4	6339.9	2366.4	1891.8	1980.4	1796.9	1607.1	1448.9	1385.7	1373.0
50°	19323.4	15533.4	5846.4	1917.2	1613.4	1702.0	1683.0	1531.2	1404.6	1328.7	1335.0
52.5°	20145.9	15653.6	5220.0	1569.2	1411.0	1512.2	1575.5	1436.3	1297.1	1252.8	1240.1
55°	19139.9	14103.4	4049.4	1290.8	1195.8	1328.7	1448.9	1290.8	1183.2	1107.3	1100.9
56°	17785.8	12610.2	3385.1	1189.5	1132.6	1278.1	1404.6	1233.8	1113.6	1069.3	1037.7
57.5°	15058.8	10319.7	2499.3	1056.6	1050.3	1189.5	1335.0	1176.9	1037.7	999.7	999.7
60°	9389.6	5808.4	1512.2	885.8	911.1	1056.6	1202.2	1050.3	923.8	923.8	942.8
62.5°	4277.2	2417.0	917.4	752.9	784.6	911.1	1069.3	949.1	879.5	949.1	961.7
65°	1455.3	1044.0	664.4	601.1	620.1	752.9	917.4	961.7	955.4	999.7	1025.0
67.5°	816.2	670.7	556.8	499.9	487.2	556.8	752.9	961.7	923.8	904.8	917.4
70°	689.7	569.5	493.5	442.9	423.9	449.2	582.1	727.6	651.7	632.7	620.1
72.5°	556.8	474.5	430.3	398.6	341.7	291.1	265.7	278.4	310.0	329.0	360.7
75°	392.3	360.7	360.7	322.7	246.8	183.5	145.5	120.2	82.3	56.9	63.3
77.5°	221.5	221.5	227.8	196.1	158.2	120.2	88.6	63.3	31.6	12.7	6.3
80°	151.9	164.5	177.2	158.2	132.9	107.6	75.9	44.3	19.0	0.0	0.0
82.5°	151.9	170.8	183.5	158.2	132.9	101.2	75.9	44.3	19.0	6.3	0.0
85°	31.6	38.0	44.3	50.6	75.9	75.9	56.9	38.0	19.0	6.3	0.0
87.5°	6.3	6.3	6.3	6.3	6.3	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)