

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: P532425

Luminaire Tested: **GALN-SA7D-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532425  
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-SA7D-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 29609 lumens  
Efficiency: N/A  
Efficacy: 68.4 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

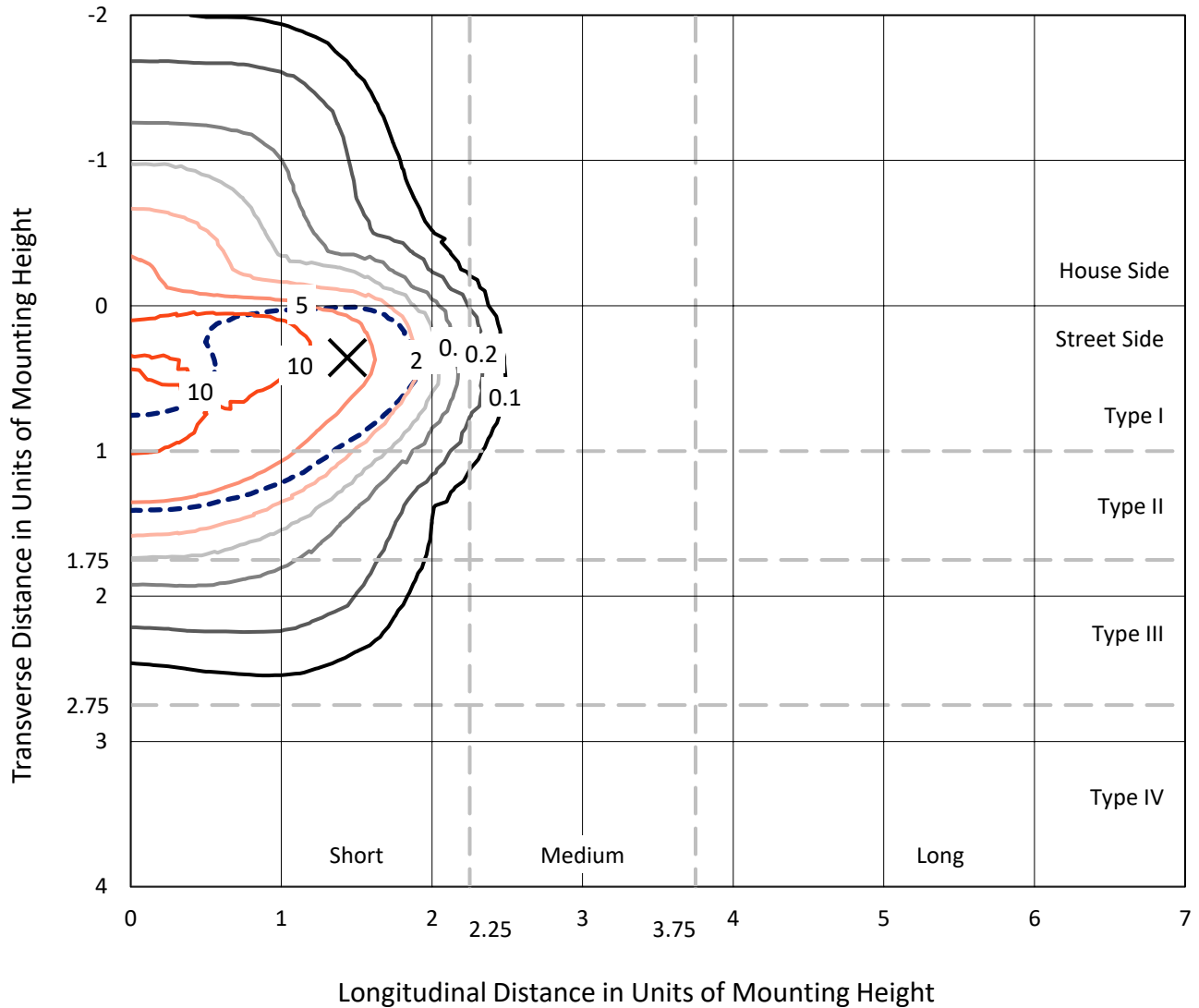
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

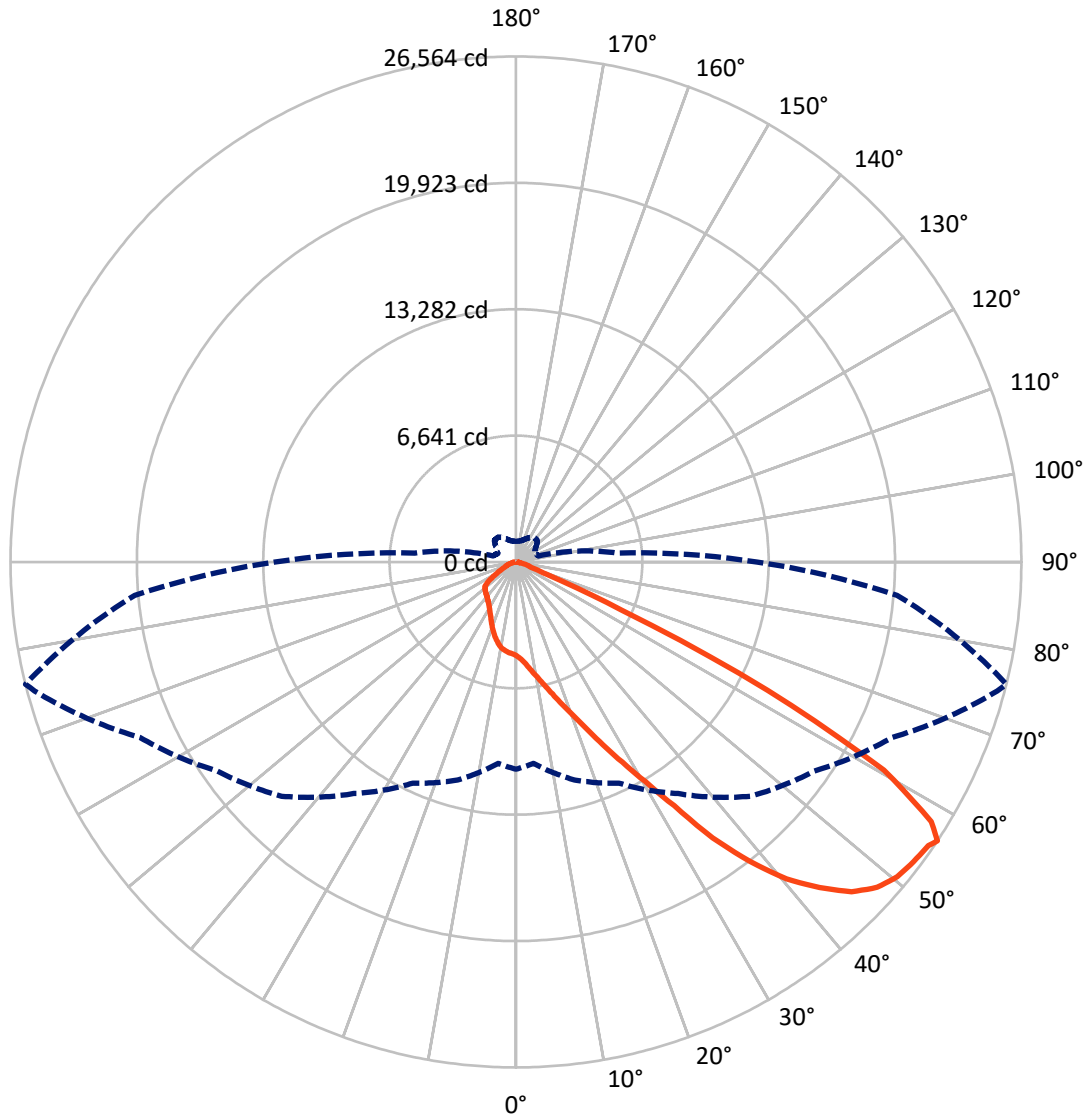
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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
<b>House Side</b>	Lumens	4651.4	0.0	4651.4
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	24957.6	0.0	24957.6
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	29609.0	0.0	29609.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	496.5	1.7
10°-20°	1595.0	5.4
20°-30°	2892.1	9.8
30°-40°	4987.6	16.8
40°-50°	8102.6	27.4
50°-60°	8540.4	28.8
60°-70°	2609.5	8.8
70°-80°	334.5	1.1
80°-90°	50.8	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°	29609.0	100.0
0°-180°	29609.0	100.0

**Coefficient of Utilization**

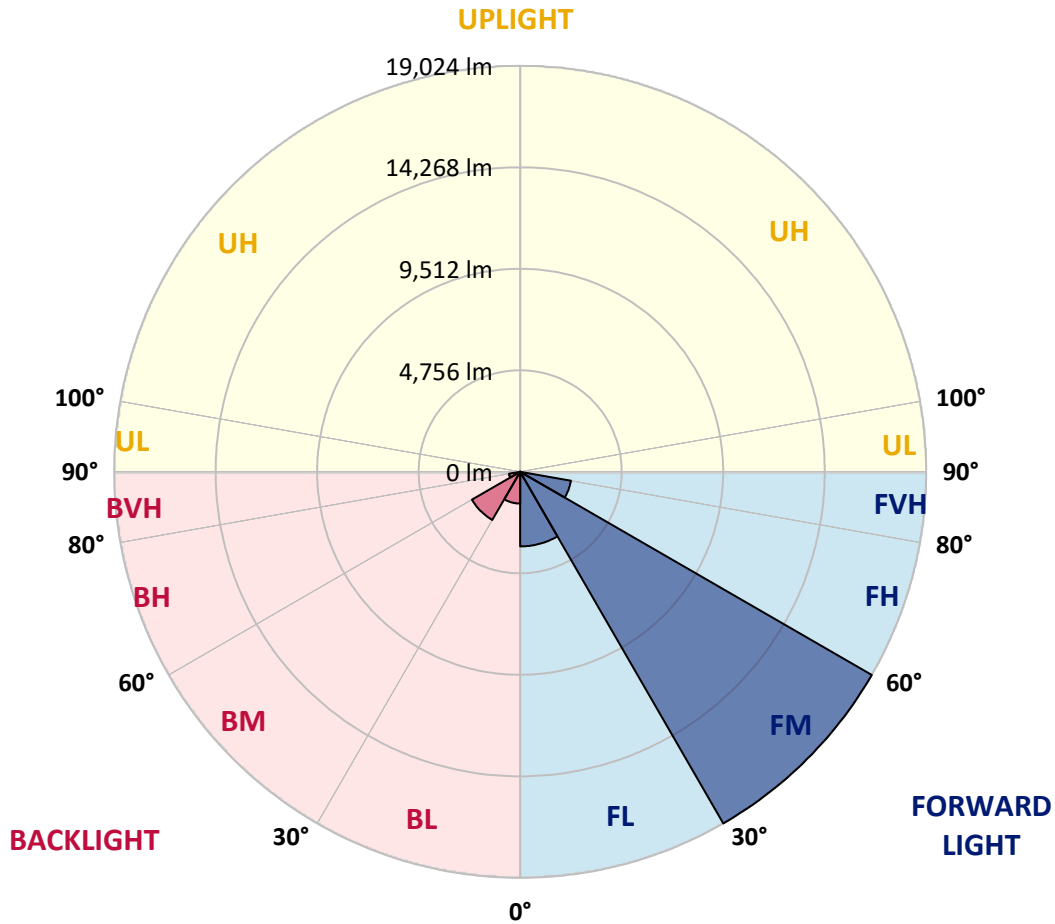


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3495.6	11.8			
FM (30°-60°)	19023.7	64.2			
FH (60°-80°)	2413.3	8.2			G2/5000
FVH (80°-90°)	24.9	0.1			G1/100
BL (0°-30°)	1488.0	5.0	B3/2500		
BM (30°-60°)	2606.8	8.8	B3/5000		
BH (60°-80°)	530.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	25.9	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°	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5
2.5°	5676.2	5545.2	5550.7	5539.7	5523.4	5463.3	5283.2	5255.9	5135.9	5103.1	4994.0
5°	6358.4	6243.8	6309.3	6211.1	6118.3	6063.7	5769.0	5632.5	5441.5	5370.6	5217.7
7.5°	6784.1	6729.6	6707.7	6713.2	6625.9	6489.4	6358.4	6058.2	5801.7	5747.1	5425.1
10°	6991.5	6958.8	6991.5	6975.2	7013.4	7029.7	6800.5	6620.4	6243.8	6151.0	5648.9
12.5°	7040.7	7106.2	7133.4	7204.4	7297.2	7455.5	7439.1	7193.5	6691.4	6631.3	5992.7
15°	7160.7	7215.3	7188.0	7302.6	7477.3	7744.7	7886.6	7848.4	7308.1	7198.9	6391.2
17.5°	7269.9	7171.6	7264.4	7493.7	7668.3	8077.7	8421.5	8579.8	7979.4	7853.9	6756.9
20°	7417.3	7390.0	7373.6	7488.2	7799.3	8345.1	9027.3	9316.6	8732.6	8601.6	7280.8
22.5°	7864.8	7870.3	7859.3	7690.1	7913.9	8530.7	9556.7	10271.7	9633.2	9524.0	7875.7
25°	8454.3	8383.3	8328.7	8192.3	8165.0	8699.9	10091.6	11439.7	10713.8	10637.4	8519.7
27.5°	9076.4	9076.4	8912.7	8787.2	8612.5	9120.1	10582.8	12574.9	12018.2	11914.5	9081.9
30°	9753.2	9791.4	9769.6	9502.2	9393.0	9578.6	11084.9	14026.7	13513.7	13382.7	10009.7
32.5°	10752.0	10670.1	10762.9	10539.2	10217.1	10380.9	11876.3	15325.7	15456.7	15271.1	11226.9
35°	12072.8	12023.7	11963.7	11598.0	11215.9	11346.9	12995.2	16924.9	17896.4	17803.6	12454.9
37.5°	13257.2	13229.9	13180.8	12929.7	12487.6	12645.9	14266.9	18589.5	20276.0	19970.4	14190.5
40°	14501.6	14648.9	14490.7	14266.9	13863.0	14212.3	15762.3	19577.4	22279.1	21907.9	15516.7
42.5°	16188.1	16073.4	16144.4	15735.1	15516.7	15898.8	17263.3	20565.3	23834.5	23392.5	16924.9
45°	17983.7	17989.2	17798.1	17667.1	17099.5	17514.3	18185.6	21111.1	25073.5	24729.6	17989.2
47.5°	19135.3	19129.9	19337.3	19544.7	18960.7	18551.3	18813.3	21629.6	25712.1	25553.8	18376.7
50°	18955.2	19009.8	19277.2	20052.2	20357.9	19806.6	19402.8	21476.7	26001.3	25985.0	18709.6
52.5°	16488.2	16668.4	17115.9	18234.8	19773.9	20456.1	20019.5	21760.6	26143.2	26170.5	19206.3
55°	12553.1	12651.4	13502.8	14861.8	16564.7	18900.6	19773.9	21984.3	26252.4	26301.5	19806.6
56°	10888.5	10626.5	11854.5	12820.6	14856.3	17410.6	19151.7	21809.7	26186.9	26563.5	20106.8
57.5°	8219.6	8044.9	9038.2	10244.4	12203.8	14900.0	17219.6	20985.5	25744.8	25739.3	19675.6
60°	4999.4	4824.8	5588.9	6298.4	7395.4	9174.7	11636.2	16712.0	21766.0	22224.5	15931.5
62.5°	2974.5	3083.7	3836.9	4268.1	4622.8	4808.4	6020.0	9933.3	14523.4	14850.9	9884.2
65°	1981.2	2019.4	2587.0	3296.6	3454.8	2750.8	2450.6	4022.5	6298.4	6096.4	4077.0
67.5°	1222.6	1309.9	1735.6	2477.9	2745.3	2008.5	1162.5	1500.9	1735.6	1735.6	1178.9
70°	742.3	785.9	1157.1	1686.5	1883.0	1293.5	846.0	846.0	835.1	818.7	704.1
72.5°	354.8	382.1	589.5	867.8	884.2	682.2	654.9	715.0	698.6	693.2	584.0
75°	152.8	163.7	207.4	272.9	311.1	289.3	398.4	513.0	529.4	513.0	420.3
77.5°	49.1	54.6	76.4	98.2	103.7	125.5	169.2	212.9	245.6	229.2	207.4
80°	5.5	10.9	21.8	49.1	76.4	98.2	125.5	141.9	158.3	158.3	147.4
82.5°	5.5	5.5	21.8	43.7	71.0	92.8	120.1	136.4	158.3	163.7	152.8
85°	0.0	5.5	16.4	38.2	60.0	60.0	54.6	54.6	38.2	38.2	38.2
87.5°	0.0	0.0	5.5	5.5	5.5	10.9	10.9	10.9	10.9	10.9	10.9
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°	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5	4928.5
2.5°	4972.1	4961.2	4813.8	4721.1	4671.9	4573.7	4513.7	4470.0	4437.3	4399.0	4404.5
5°	5037.6	4999.4	4753.8	4584.6	4382.7	4273.5	4180.7	4104.3	4055.2	4044.3	4022.5
7.5°	5223.2	5021.2	4650.1	4344.5	4087.9	3978.8	3896.9	3847.8	3869.6	3820.5	3858.7
10°	5365.1	5064.9	4524.6	4082.5	3826.0	3744.1	3700.4	3738.6	3793.2	3771.4	3744.1
12.5°	5539.7	5108.6	4322.6	3831.4	3591.3	3531.2	3607.7	3678.6	3787.8	3831.4	3776.9
15°	5736.2	5157.7	4066.1	3542.2	3389.3	3438.5	3569.5	3695.0	3804.1	3858.7	3891.5
17.5°	5976.4	5141.3	3815.1	3312.9	3198.3	3340.2	3498.5	3613.1	3776.9	3858.7	3836.9
20°	6200.1	5086.7	3536.7	3083.7	3089.2	3220.1	3351.1	3536.7	3624.0	3733.2	3695.0
22.5°	6413.0	4988.5	3247.4	2925.4	2925.4	3127.4	3192.9	3312.9	3389.3	3443.9	3438.5
25°	6713.2	4802.9	3007.3	2772.6	2838.1	2969.1	3023.7	3061.9	3029.1	3072.8	3078.2
27.5°	6926.0	4611.9	2810.8	2636.2	2756.2	2854.5	2838.1	2816.3	2739.9	2679.8	2718.0
30°	7155.3	4388.1	2641.6	2543.4	2608.9	2696.2	2630.7	2565.2	2445.1	2346.9	2352.3
32.5°	7482.7	4284.4	2494.2	2434.2	2521.5	2532.5	2461.5	2363.3	2243.2	2150.4	2144.9
35°	8094.0	4218.9	2368.7	2363.3	2379.6	2385.1	2314.1	2194.1	2144.9	2068.5	2095.8
37.5°	8705.3	4186.2	2281.4	2259.6	2254.1	2259.6	2177.7	2063.1	2155.9	2150.4	2161.3
40°	9485.8	4333.6	2155.9	2128.6	2134.0	2134.0	2030.3	1997.6	2161.3	2177.7	2183.2
42.5°	10277.2	4519.1	2074.0	1986.7	2008.5	2008.5	1953.9	1915.7	2030.3	1921.2	1904.8
45°	10964.9	4792.0	1986.7	1844.8	1899.3	1926.6	1910.3	1844.8	1773.8	1588.2	1588.2
47.5°	11188.6	5032.2	1883.0	1708.3	1752.0	1872.1	1822.9	1686.5	1561.0	1408.1	1397.2
50°	11581.6	5294.1	1801.1	1550.0	1642.8	1790.2	1741.1	1604.6	1462.7	1353.6	1359.0
52.5°	11985.5	5594.3	1648.3	1364.5	1479.1	1724.7	1724.7	1571.9	1353.6	1277.1	1266.2
55°	12591.3	5583.4	1375.4	1118.9	1320.8	1626.4	1653.7	1408.1	1211.6	1151.6	1151.6
56°	12678.6	5332.3	1238.9	1047.9	1249.9	1599.2	1604.6	1364.5	1157.1	1091.6	1091.6
57.5°	12023.7	4813.8	1086.1	960.6	1162.5	1550.0	1555.5	1326.3	1113.4	1020.6	1009.7
60°	9251.1	3258.4	906.0	856.9	1053.4	1397.2	1424.5	1206.2	977.0	906.0	900.5
62.5°	5223.2	1806.6	796.8	775.0	906.0	1189.8	1271.7	1053.4	829.6	791.4	802.3
65°	2385.1	993.3	671.3	627.7	731.4	916.9	1026.1	867.8	682.2	638.6	638.6
67.5°	873.3	676.8	573.1	496.7	513.0	594.9	665.9	562.2	453.0	387.5	403.9
70°	622.2	567.6	502.1	431.2	398.4	387.5	382.1	316.6	223.8	174.7	185.6
72.5°	502.1	469.4	420.3	365.7	311.1	262.0	223.8	163.7	103.7	71.0	65.5
75°	360.2	343.8	305.6	262.0	218.3	185.6	152.8	103.7	54.6	27.3	27.3
77.5°	185.6	185.6	180.1	163.7	136.4	109.2	87.3	60.0	32.7	10.9	10.9
80°	141.9	152.8	158.3	141.9	125.5	98.2	71.0	43.7	21.8	5.5	5.5
82.5°	136.4	158.3	169.2	147.4	125.5	92.8	71.0	43.7	21.8	5.5	5.5
85°	32.7	32.7	49.1	54.6	71.0	76.4	60.0	38.2	16.4	5.5	5.5
87.5°	10.9	10.9	10.9	10.9	10.9	10.9	5.5	5.5	5.5	5.5	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)