

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: P531444

Luminaire Tested: **GALN-SA6D-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33491 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

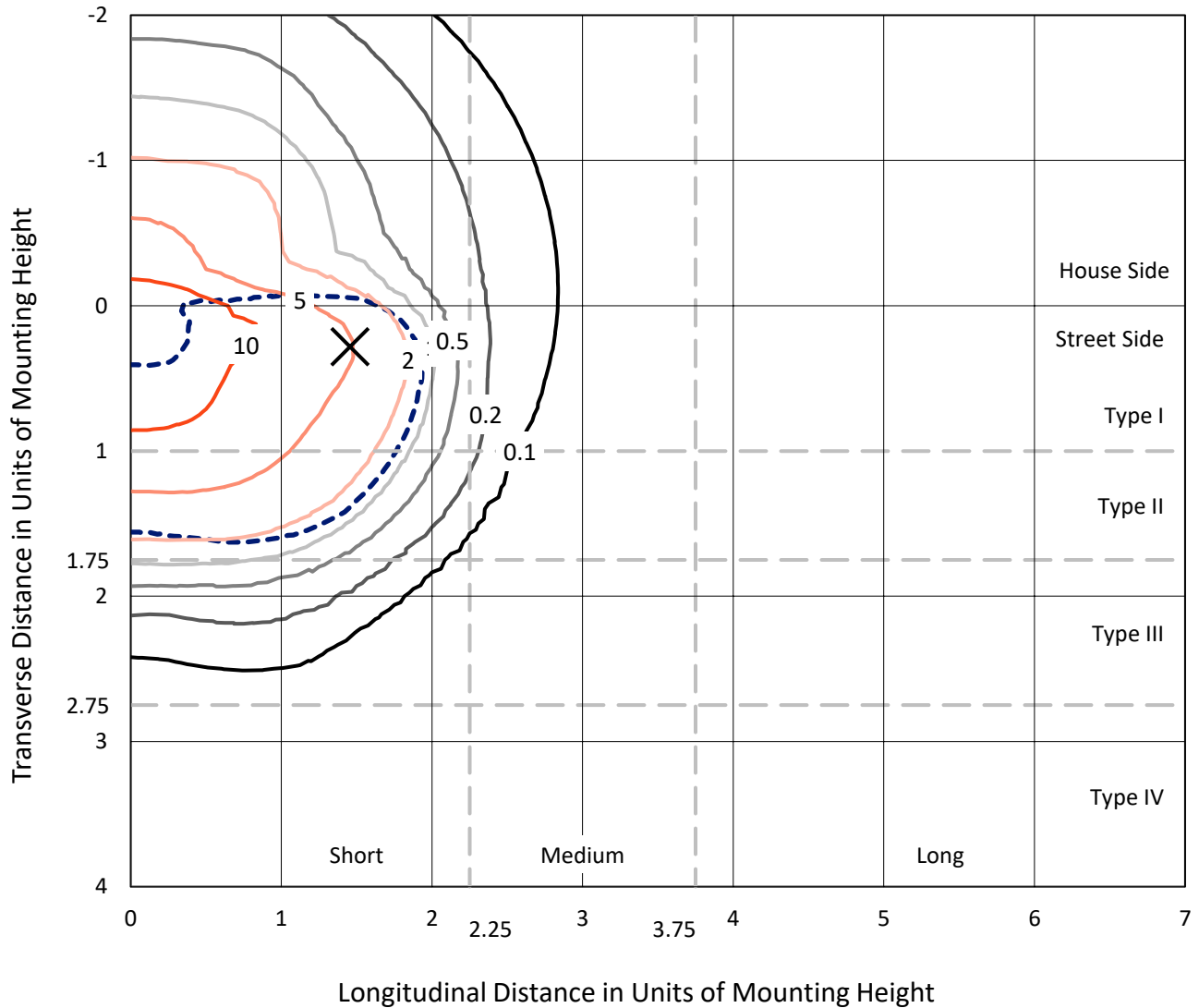
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

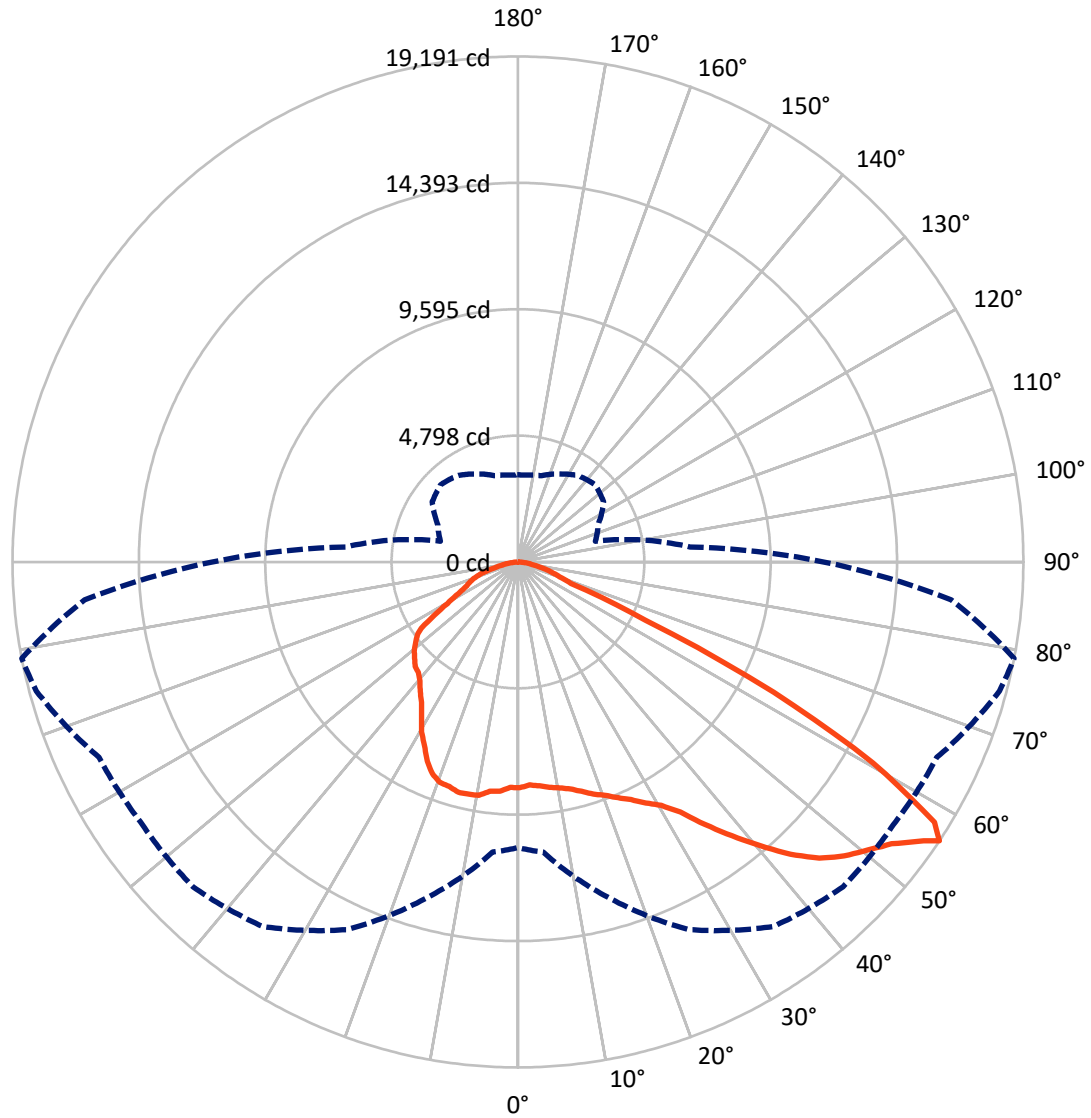
✕ Max cd
 - - - 1/2 Max cd



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 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9890.6	0.0	9890.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	23600.4	0.0	23600.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	33491.0	0.0	33491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.1	2.3
10°-20°	2132.2	6.4
20°-30°	3647.7	10.9
30°-40°	5590.5	16.7
40°-50°	7555.6	22.6
50°-60°	8677.8	25.9
60°-70°	3955.6	11.8
70°-80°	975.3	2.9
80°-90°	177.2	0.5
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°	33491.0	100.0
0°-180°	33491.0	100.0

Coefficient of Utilization



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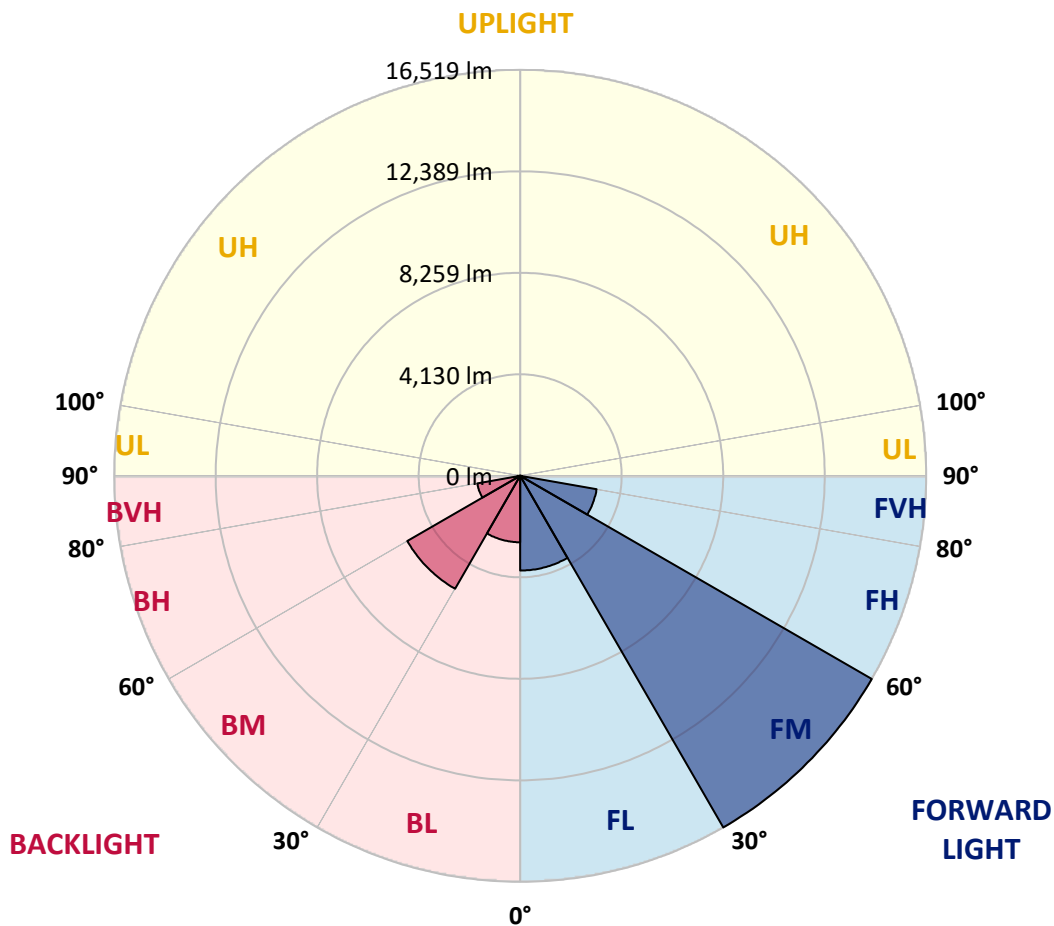
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3853.4	11.5			
FM (30°-60°)	16518.8	49.3			
FH (60°-80°)	3157.4	9.4			G2/5000
FVH (80°-90°)	70.8	0.2			G1/100
BL (0°-30°)	2705.5	8.1	B4/5000		
BM (30°-60°)	5305.2	15.8	B4/8500		
BH (60°-80°)	1773.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	106.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0
2.5°	8151.8	8131.0	8181.0	8218.6	8264.5	8322.9	8352.1	8368.8	8514.8	8477.2	8589.9
5°	7976.6	7922.4	7959.9	7989.1	8068.4	8139.3	8218.6	8343.7	8477.2	8535.6	8673.3
7.5°	7822.3	7793.1	7784.7	7805.6	7914.0	8005.8	8143.5	8327.1	8544.0	8639.9	8719.2
10°	7567.8	7526.1	7588.6	7726.3	7755.5	7947.4	8105.9	8368.8	8556.5	8723.4	8957.0
12.5°	7455.1	7413.4	7425.9	7505.2	7709.6	7893.2	8080.9	8377.1	8773.4	8840.2	9153.1
15°	7634.5	7592.8	7605.3	7584.5	7780.5	7876.5	8172.7	8544.0	8923.6	9036.3	9370.0
17.5°	8043.4	8047.5	7993.3	7947.4	7901.5	8105.9	8310.4	8644.1	8982.0	9265.7	9516.0
20°	8823.5	8685.8	8577.4	8318.7	8247.8	8335.4	8594.1	8915.3	9219.8	9453.5	9737.1
22.5°	9424.3	9436.8	9282.4	8856.9	8702.5	8740.1	8961.2	9224.0	9557.8	9724.6	10050.0
25°	10296.2	10208.6	10041.7	9703.8	9357.5	9386.7	9549.4	9787.2	9879.0	9995.8	10350.4
27.5°	11093.0	11118.0	10788.5	10471.4	10041.7	9958.3	10250.3	10292.0	10137.6	10358.8	10479.7
30°	11902.3	11881.5	11664.5	11293.3	10871.9	10888.6	11017.9	10813.5	10600.7	10721.7	10805.1
32.5°	12740.9	12503.1	12494.8	12161.0	11839.8	11685.4	11526.9	11627.0	11297.4	11322.5	11243.2
35°	13412.6	13445.9	13254.0	13016.2	12857.7	12586.5	12152.7	12332.0	12269.5	12240.3	11898.2
37.5°	13900.7	13771.3	13867.3	13788.0	13637.8	13299.9	12849.4	13020.4	13049.6	13191.5	12795.1
40°	14301.2	14246.9	14501.4	14543.1	14438.8	13708.8	12899.4	13408.4	13846.4	14155.2	13683.7
42.5°	14493.1	14609.9	14876.9	15198.1	14964.5	14184.4	13158.1	13704.6	14680.8	15168.9	14526.5
45°	14751.7	14601.5	14997.9	15586.1	15590.3	14584.9	13408.4	14105.1	15331.6	16040.8	15102.2
47.5°	14488.9	14564.0	14972.8	15719.6	15911.5	15006.2	14084.2	14672.5	16049.2	16679.1	15636.2
50°	13900.7	14050.9	14797.6	15573.6	16153.5	15452.6	14860.2	15285.7	16712.5	17192.3	15723.8
52.5°	13287.4	13370.8	14539.0	15686.2	16261.9	16028.3	15899.0	16132.6	17521.9	17772.2	15832.2
55°	11618.7	12015.0	13683.7	15636.2	16791.8	17067.1	16967.0	17309.1	18439.7	18690.0	16424.7
56°	10846.9	11055.5	13170.6	15402.5	16896.1	17446.8	17396.7	17551.1	18927.8	19190.6	16516.4
57.5°	9420.1	9436.8	11230.7	14367.9	16503.9	17559.4	17509.3	17630.3	18831.8	18652.4	15711.3
60°	5894.9	6153.5	7642.9	11051.3	14034.2	16291.2	16574.8	15602.8	15878.1	15498.5	12223.6
62.5°	3053.8	3016.3	4005.0	6462.2	9315.8	11664.5	11927.4	11881.5	11456.0	10901.1	7985.0
65°	1522.7	1531.1	2094.3	3199.8	4772.6	6107.6	6841.9	6921.1	5790.6	5327.5	3788.1
67.5°	1105.5	1147.3	1506.0	1956.6	2248.6	2515.6	3083.0	3024.6	2290.4	2177.7	2019.2
70°	859.4	897.0	1222.4	1493.5	1355.9	1355.9	1476.8	1526.9	1631.2	1677.1	1731.3
72.5°	625.8	655.0	934.5	1030.5	888.6	955.4	1105.5	1222.4	1330.8	1347.5	1410.1
75°	429.7	454.7	613.3	567.4	534.0	659.2	809.3	917.8	997.1	1038.8	1076.3
77.5°	279.5	287.9	350.4	296.2	342.1	425.5	525.7	617.4	696.7	730.1	738.4
80°	125.2	137.7	150.2	187.7	237.8	304.5	375.5	450.6	500.6	513.1	538.2
82.5°	70.9	70.9	91.8	133.5	175.2	221.1	271.2	325.4	383.8	396.3	392.2
85°	37.5	37.5	54.2	79.3	108.5	129.3	125.2	129.3	137.7	158.5	154.4
87.5°	12.5	12.5	16.7	16.7	20.9	25.0	20.9	29.2	37.5	37.5	37.5
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°	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0	8569.0
2.5°	8556.5	8594.1	8544.0	8652.5	8652.5	8631.6	8527.3	8560.7	8585.7	8585.7	8606.6
5°	8719.2	8706.7	8740.1	8610.7	8531.5	8502.3	8331.2	8247.8	8176.9	8172.7	8110.1
7.5°	8811.0	8777.6	8765.1	8669.1	8318.7	8105.9	7738.8	7526.1	7480.2	7317.5	7380.0
10°	8957.0	9019.6	8957.0	8435.5	7947.4	7459.3	7100.5	6770.9	6641.6	6537.3	6474.7
12.5°	9257.4	9228.2	8865.2	8160.2	7476.0	6896.1	6362.1	6015.8	5886.5	5794.7	5786.4
15°	9511.9	9365.8	8811.0	7726.3	6741.7	6124.3	5686.3	5440.1	5381.7	5390.1	5427.6
17.5°	9599.5	9499.3	8527.3	7275.7	6195.2	5469.3	5264.9	5227.4	5281.6	5344.2	5360.9
20°	9737.1	9578.6	8410.5	6662.5	5519.4	5060.5	5048.0	5181.5	5281.6	5373.4	5385.9
22.5°	10025.0	9624.5	8030.8	6082.6	5056.3	4939.5	5060.5	5173.1	5327.5	5402.6	5335.8
25°	10108.4	9524.4	7496.9	5385.9	4764.3	4864.4	4993.7	5148.1	5256.6	5298.3	5327.5
27.5°	10179.4	9370.0	6775.1	4922.8	4672.5	4860.2	4993.7	5123.1	5181.5	5219.0	5252.4
30°	10379.6	9324.1	6149.3	4614.1	4614.1	4776.8	4947.8	4981.2	5060.5	5106.4	5164.8
32.5°	10479.7	9007.1	5506.9	4418.0	4555.7	4818.5	4831.0	4893.6	4897.8	4935.3	4872.7
35°	10742.6	8781.8	4910.3	4276.2	4580.7	4776.8	4839.4	4801.8	4597.4	4497.3	4518.1
37.5°	10934.5	8669.1	4480.6	4259.5	4584.9	4822.7	4856.1	4572.4	4359.6	4192.7	4234.4
40°	11451.8	8389.6	4155.2	4230.3	4622.4	4872.7	4781.0	4472.2	4088.4	3917.4	3888.2
42.5°	11848.1	8189.4	3950.8	4196.9	4651.6	4943.7	4743.4	4272.0	3879.8	3721.3	3763.0
45°	12307.0	8143.5	3842.3	4205.2	4701.7	4981.2	4697.5	4117.6	3700.4	3637.9	3625.4
47.5°	12469.7	7813.9	3725.5	4134.3	4689.2	4968.7	4543.2	4000.8	3633.7	3642.0	3675.4
50°	12198.5	7476.0	3637.9	3988.3	4605.7	4856.1	4301.2	3846.5	3596.2	3700.4	3758.9
52.5°	11852.3	7129.7	3458.5	3792.2	4434.7	4680.8	4188.6	3838.1	3558.6	3525.2	3537.7
55°	11956.6	6846.0	3208.2	3525.2	4159.4	4355.4	4063.4	3758.9	3466.8	3341.7	3383.4
56°	11618.7	6554.0	3045.5	3358.4	3971.6	4146.8	4000.8	3687.9	3391.7	3308.3	3308.3
57.5°	10663.3	5573.6	2832.7	3091.4	3575.3	3783.9	3879.8	3646.2	3308.3	3162.3	3166.4
60°	7864.0	3963.3	2540.7	2724.2	2962.0	3128.9	3575.3	3529.4	3099.7	2999.6	2962.0
62.5°	4847.7	2895.3	2332.1	2403.0	2524.0	2661.7	3120.6	3195.7	2878.6	2770.1	2745.1
65°	2715.9	2215.3	2173.5	2202.7	2261.2	2332.1	2590.7	2757.6	2540.7	2373.8	2365.5
67.5°	1985.8	1981.6	2015.0	2040.0	2065.1	2065.1	2127.7	2194.4	2165.2	2031.7	2019.2
70°	1764.7	1777.2	1802.2	1806.4	1814.8	1785.6	1735.5	1714.6	1748.0	1664.6	1647.9
72.5°	1456.0	1497.7	1526.9	1531.1	1485.2	1447.6	1380.9	1310.0	1284.9	1268.2	1264.1
75°	1118.1	1147.3	1159.8	1155.6	1138.9	1084.7	1005.4	934.5	888.6	838.5	863.6
77.5°	755.1	796.8	817.7	817.7	792.7	709.2	671.7	617.4	571.5	517.3	525.7
80°	529.8	559.0	592.4	588.2	546.5	504.8	450.6	400.5	363.0	321.2	317.1
82.5°	396.3	413.0	429.7	421.4	392.2	350.4	312.9	267.0	225.3	196.1	196.1
85°	141.8	154.4	187.7	196.1	212.8	212.8	179.4	150.2	121.0	100.1	100.1
87.5°	41.7	41.7	45.9	45.9	41.7	45.9	37.5	41.7	45.9	29.2	29.2
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)