

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: P533940

Luminaire Tested: **GALN-SA9B-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533940
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-SA9B-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA 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: 33103 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

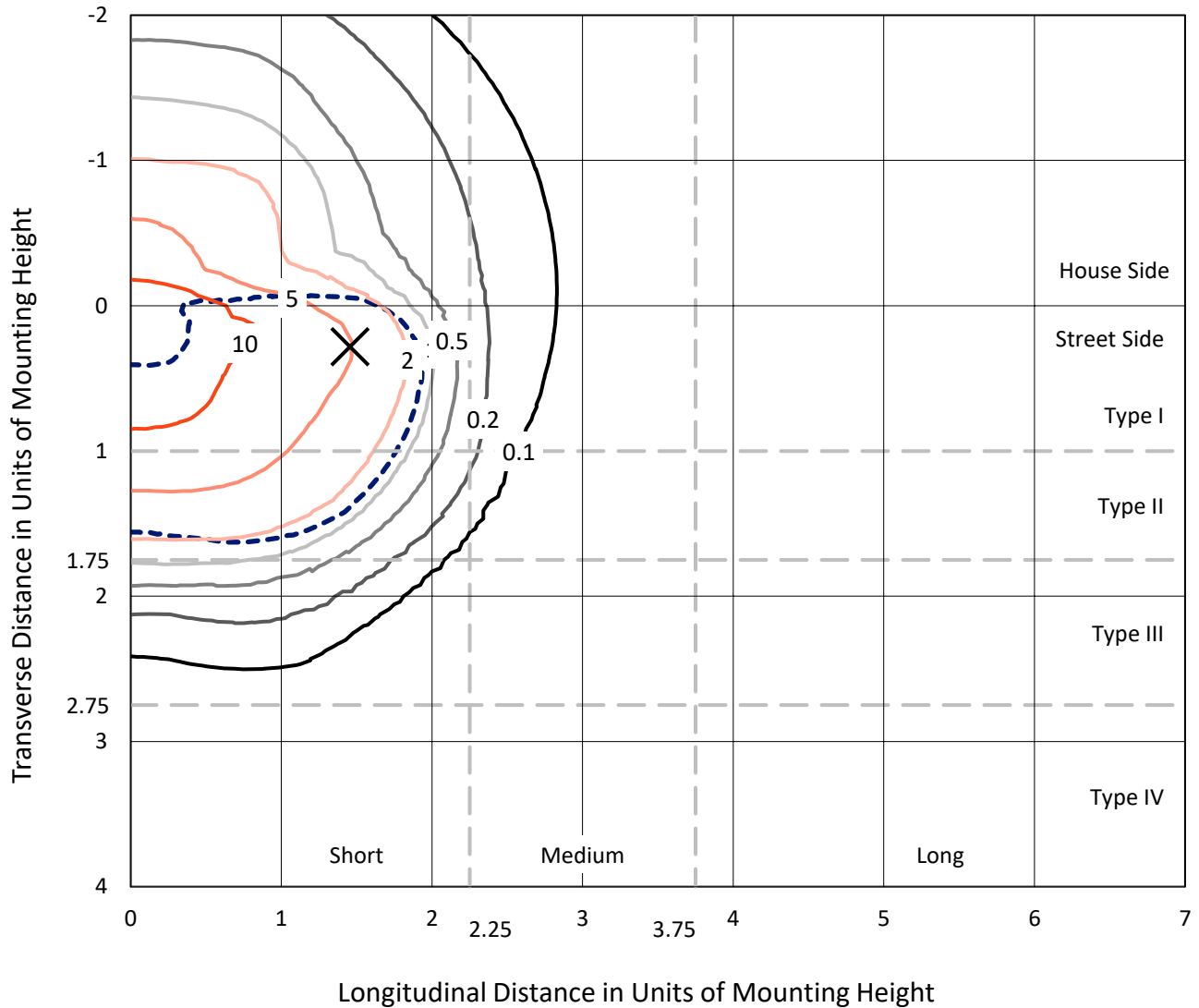
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

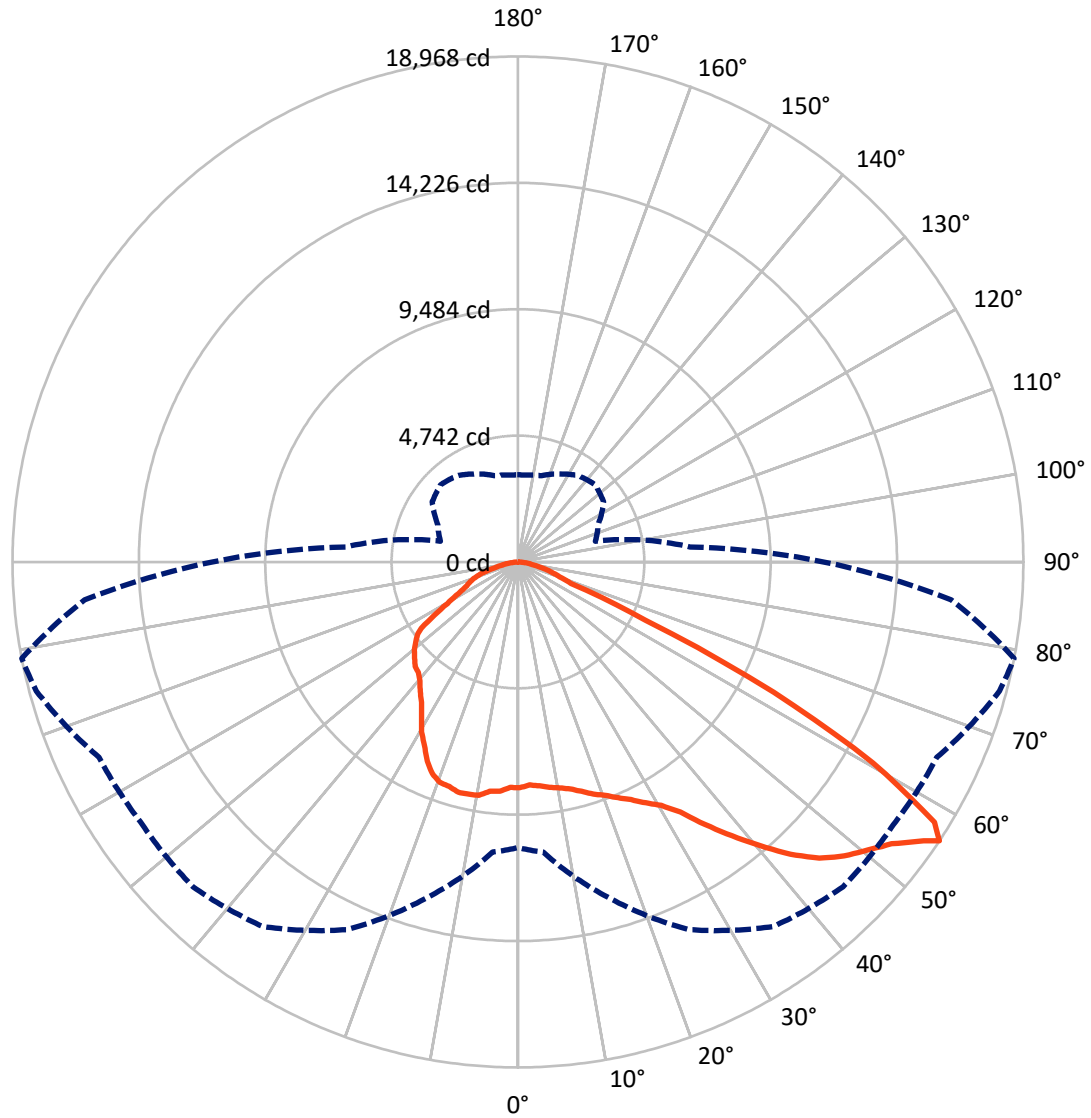
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	9776.0	0.0	9776.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	23327.0	0.0	23327.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	33103.0	0.0	33103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.1	2.3
10°-20°	2107.5	6.4
20°-30°	3605.4	10.9
30°-40°	5525.8	16.7
40°-50°	7468.0	22.6
50°-60°	8577.3	25.9
60°-70°	3909.8	11.8
70°-80°	964.0	2.9
80°-90°	175.2	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°	33103.0	100.0
0°-180°	33103.0	100.0

Coefficient of Utilization



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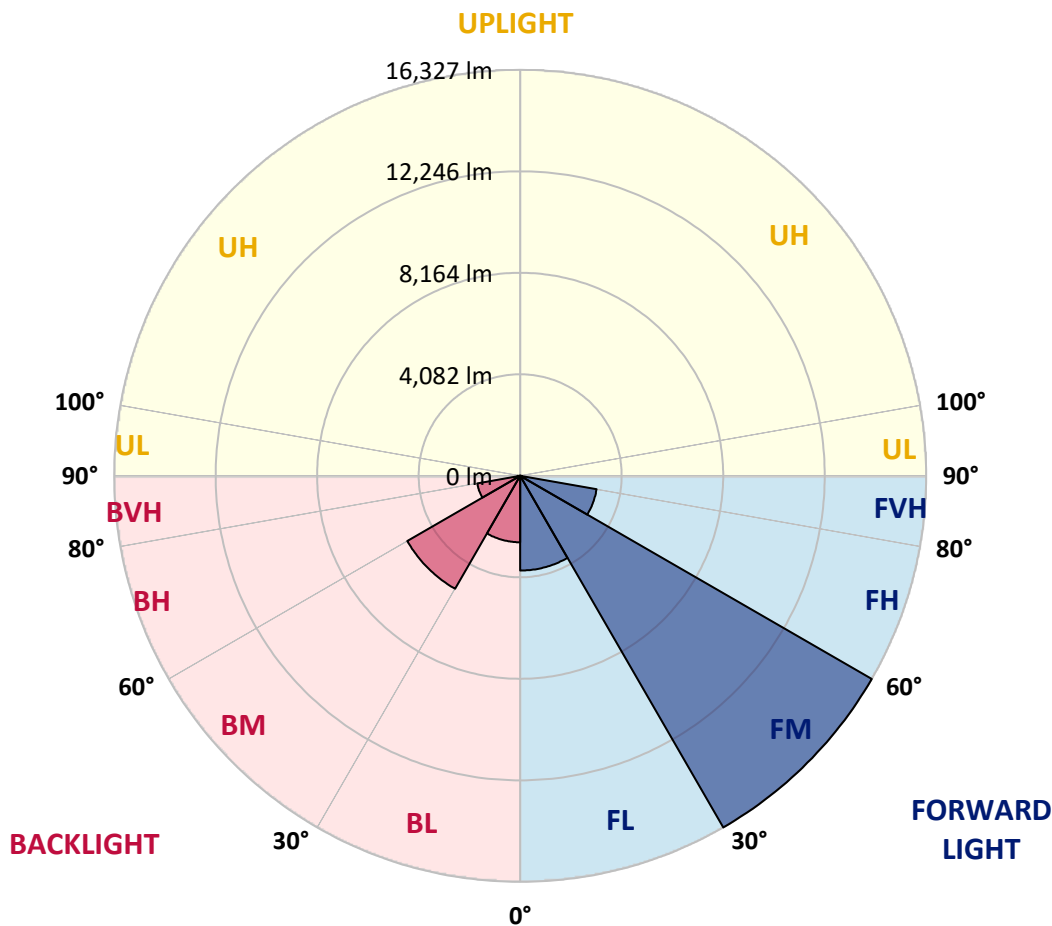
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3808.8	11.5			
FM (30°-60°)	16327.4	49.3			
FH (60°-80°)	3120.9	9.4			G2/5000
FVH (80°-90°)	69.9	0.2			G1/100
BL (0°-30°)	2674.2	8.1	B4/5000		
BM (30°-60°)	5243.7	15.8	B4/8500		
BH (60°-80°)	1752.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	105.2	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°	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7
2.5°	8057.4	8036.8	8086.3	8123.4	8168.7	8226.5	8255.3	8271.8	8416.1	8379.0	8490.4
5°	7884.2	7830.6	7867.7	7896.6	7974.9	8045.0	8123.4	8247.1	8379.0	8436.8	8572.8
7.5°	7731.6	7702.8	7694.5	7715.1	7822.4	7913.1	8049.1	8230.6	8445.0	8539.8	8618.2
10°	7480.1	7438.9	7500.7	7636.8	7665.7	7855.3	8012.0	8271.8	8457.4	8622.3	8853.2
12.5°	7368.8	7327.5	7339.9	7418.2	7620.3	7801.7	7987.3	8280.1	8671.8	8737.8	9047.0
15°	7546.1	7504.8	7517.2	7496.6	7690.4	7785.2	8078.0	8445.0	8820.2	8931.6	9261.5
17.5°	7950.2	7954.3	7900.7	7855.3	7810.0	8012.0	8214.1	8544.0	8878.0	9158.4	9405.8
20°	8721.3	8585.2	8478.0	8222.3	8152.2	8238.8	8494.5	8812.0	9113.0	9343.9	9624.3
22.5°	9315.1	9327.4	9174.9	8754.3	8601.7	8638.8	8857.4	9117.1	9447.0	9612.0	9933.6
25°	10176.9	10090.3	9925.4	9591.3	9249.1	9278.0	9438.8	9673.8	9764.5	9880.0	10230.5
27.5°	10964.5	10989.2	10663.5	10350.1	9925.4	9842.9	10131.5	10172.8	10020.2	10238.7	10358.3
30°	11764.5	11743.8	11529.4	11162.4	10745.9	10762.4	10890.3	10688.2	10477.9	10597.5	10680.0
32.5°	12593.3	12358.2	12350.0	12020.1	11702.6	11550.0	11393.3	11492.3	11166.5	11191.3	11112.9
35°	13257.2	13290.2	13100.5	12865.4	12708.7	12440.7	12011.9	12189.2	12127.3	12098.5	11760.3
37.5°	13739.6	13611.8	13706.6	13628.3	13479.8	13145.8	12700.5	12869.6	12898.4	13038.6	12646.9
40°	14135.5	14081.9	14333.4	14374.7	14271.6	13549.9	12750.0	13253.1	13686.0	13991.2	13525.2
42.5°	14325.2	14440.6	14704.5	15022.0	14791.1	14020.0	13005.6	13545.8	14510.7	14993.2	14358.2
45°	14580.8	14432.4	14824.1	15405.5	15409.7	14415.9	13253.1	13941.7	15154.0	15855.0	14927.2
47.5°	14321.0	14395.3	14799.4	15537.5	15727.2	14832.4	13921.1	14502.5	15863.3	16485.9	15455.0
50°	13739.6	13888.1	14626.2	15393.2	15966.3	15273.6	14688.0	15108.6	16518.9	16993.1	15541.6
52.5°	13133.5	13215.9	14370.5	15504.5	16073.6	15842.6	15714.8	15945.7	17318.9	17566.3	15648.8
55°	11484.1	11875.8	13525.2	15455.0	16597.2	16869.4	16770.4	17108.6	18226.0	18473.4	16234.4
56°	10721.2	10927.4	13018.0	15224.1	16700.3	17244.6	17195.2	17347.7	18708.5	18968.3	16325.1
57.5°	9310.9	9327.4	11100.6	14201.5	16312.7	17356.0	17306.5	17426.1	18613.7	18436.3	15529.2
60°	5826.6	6082.2	7554.3	10923.3	13871.6	16102.4	16382.8	15422.0	15694.2	15318.9	12082.0
62.5°	3018.4	2981.3	3958.6	6387.4	9207.9	11529.4	11789.2	11743.8	11323.2	10774.8	7892.5
65°	1505.1	1513.3	2070.0	3162.8	4717.3	6036.9	6762.6	6840.9	5723.5	5265.8	3744.2
67.5°	1092.7	1134.0	1488.6	1933.9	2222.6	2486.5	3047.3	2989.6	2263.8	2152.5	1995.8
70°	849.4	886.6	1208.2	1476.2	1340.1	1340.1	1459.7	1509.2	1612.3	1657.7	1711.3
72.5°	618.5	647.4	923.7	1018.5	878.3	944.3	1092.7	1208.2	1315.4	1331.9	1393.8
75°	424.7	449.5	606.2	560.8	527.8	651.5	800.0	907.2	985.5	1026.8	1063.9
77.5°	276.3	284.5	346.4	292.8	338.1	420.6	519.6	610.3	688.6	721.6	729.9
80°	123.7	136.1	148.4	185.6	235.0	301.0	371.1	445.3	494.8	507.2	531.9
82.5°	70.1	70.1	90.7	132.0	173.2	218.5	268.0	321.6	379.4	391.7	387.6
85°	37.1	37.1	53.6	78.3	107.2	127.8	123.7	127.8	136.1	156.7	152.6
87.5°	12.4	12.4	16.5	16.5	20.6	24.7	20.6	28.9	37.1	37.1	37.1
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°	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7	8469.7
2.5°	8457.4	8494.5	8445.0	8552.2	8552.2	8531.6	8428.5	8461.5	8486.2	8486.2	8506.9
5°	8618.2	8605.8	8638.8	8511.0	8432.6	8403.8	8234.7	8152.2	8082.1	8078.0	8016.2
7.5°	8708.9	8675.9	8663.6	8568.7	8222.3	8012.0	7649.2	7438.9	7393.5	7232.7	7294.5
10°	8853.2	8915.1	8853.2	8337.8	7855.3	7372.9	7018.3	6692.5	6564.7	6461.6	6399.7
12.5°	9150.1	9121.3	8762.5	8065.6	7389.4	6816.2	6288.4	5946.1	5818.3	5727.6	5719.3
15°	9401.7	9257.3	8708.9	7636.8	6663.6	6053.4	5620.4	5377.1	5319.4	5327.6	5364.7
17.5°	9488.3	9389.3	8428.5	7191.5	6123.5	5406.0	5203.9	5166.8	5220.4	5282.3	5298.7
20°	9624.3	9467.6	8313.1	6585.3	5455.4	5001.9	4989.5	5121.4	5220.4	5311.1	5323.5
22.5°	9908.9	9513.0	7937.8	6012.1	4997.7	4882.3	5001.9	5113.2	5265.8	5340.0	5274.0
25°	9991.3	9414.0	7410.0	5323.5	4709.1	4808.0	4935.9	5088.4	5195.7	5236.9	5265.8
27.5°	10061.4	9261.5	6696.6	4865.8	4618.4	4803.9	4935.9	5063.7	5121.4	5158.5	5191.5
30°	10259.4	9216.1	6078.1	4560.6	4560.6	4721.5	4890.5	4923.5	5001.9	5047.2	5104.9
32.5°	10358.3	8902.7	5443.1	4366.8	4502.9	4762.7	4775.1	4836.9	4841.0	4878.1	4816.3
35°	10618.1	8680.0	4853.4	4226.6	4527.6	4721.5	4783.3	4746.2	4544.1	4445.2	4465.8
37.5°	10807.8	8568.7	4428.7	4210.1	4531.8	4766.8	4799.8	4519.4	4309.1	4144.2	4185.4
40°	11319.1	8292.4	4107.0	4181.3	4568.9	4816.3	4725.6	4420.4	4041.1	3872.0	3843.1
42.5°	11710.8	8094.5	3905.0	4148.3	4597.7	4886.4	4688.5	4222.5	3834.9	3678.2	3719.4
45°	12164.4	8049.1	3797.8	4156.5	4647.2	4923.5	4643.1	4069.9	3657.6	3595.7	3583.4
47.5°	12325.3	7723.4	3682.3	4086.4	4634.9	4911.1	4490.5	3954.5	3591.6	3599.8	3632.8
50°	12057.2	7389.4	3595.7	3942.1	4552.4	4799.8	4251.4	3801.9	3554.5	3657.6	3715.3
52.5°	11715.0	7047.1	3418.4	3748.3	4383.3	4626.6	4140.0	3793.7	3517.4	3484.4	3496.8
55°	11818.1	6766.7	3171.0	3484.4	4111.2	4305.0	4016.3	3715.3	3426.7	3303.0	3344.2
56°	11484.1	6478.1	3010.2	3319.4	3925.6	4098.8	3954.5	3645.2	3352.4	3270.0	3270.0
57.5°	10539.8	5509.0	2799.9	3055.5	3533.9	3740.0	3834.9	3604.0	3270.0	3125.6	3129.8
60°	7772.9	3917.4	2511.2	2692.7	2927.7	3092.7	3533.9	3488.5	3063.8	2964.8	2927.7
62.5°	4791.6	2861.7	2305.1	2375.2	2494.7	2630.8	3084.4	3158.6	2845.2	2738.0	2713.3
65°	2684.4	2189.6	2148.4	2177.2	2235.0	2305.1	2560.7	2725.7	2511.2	2346.3	2338.0
67.5°	1962.8	1958.7	1991.7	2016.4	2041.2	2041.2	2103.0	2169.0	2140.1	2008.2	1995.8
70°	1744.3	1756.6	1781.4	1785.5	1793.7	1764.9	1715.4	1694.8	1727.8	1645.3	1628.8
72.5°	1439.1	1480.4	1509.2	1513.3	1468.0	1430.9	1364.9	1294.8	1270.0	1253.6	1249.4
75°	1105.1	1134.0	1146.3	1142.2	1125.7	1072.1	993.8	923.7	878.3	828.8	853.6
77.5°	746.4	787.6	808.2	808.2	783.5	701.0	663.9	610.3	564.9	511.3	519.6
80°	523.7	552.6	585.5	581.4	540.2	498.9	445.3	395.9	358.7	317.5	313.4
82.5°	391.7	408.2	424.7	416.5	387.6	346.4	309.3	263.9	222.7	193.8	193.8
85°	140.2	152.6	185.6	193.8	210.3	210.3	177.3	148.4	119.6	99.0	99.0
87.5°	41.2	41.2	45.4	45.4	41.2	45.4	37.1	41.2	45.4	28.9	28.9
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)