

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: P533934

Luminaire Tested: **GALN-SA9B-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31808 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

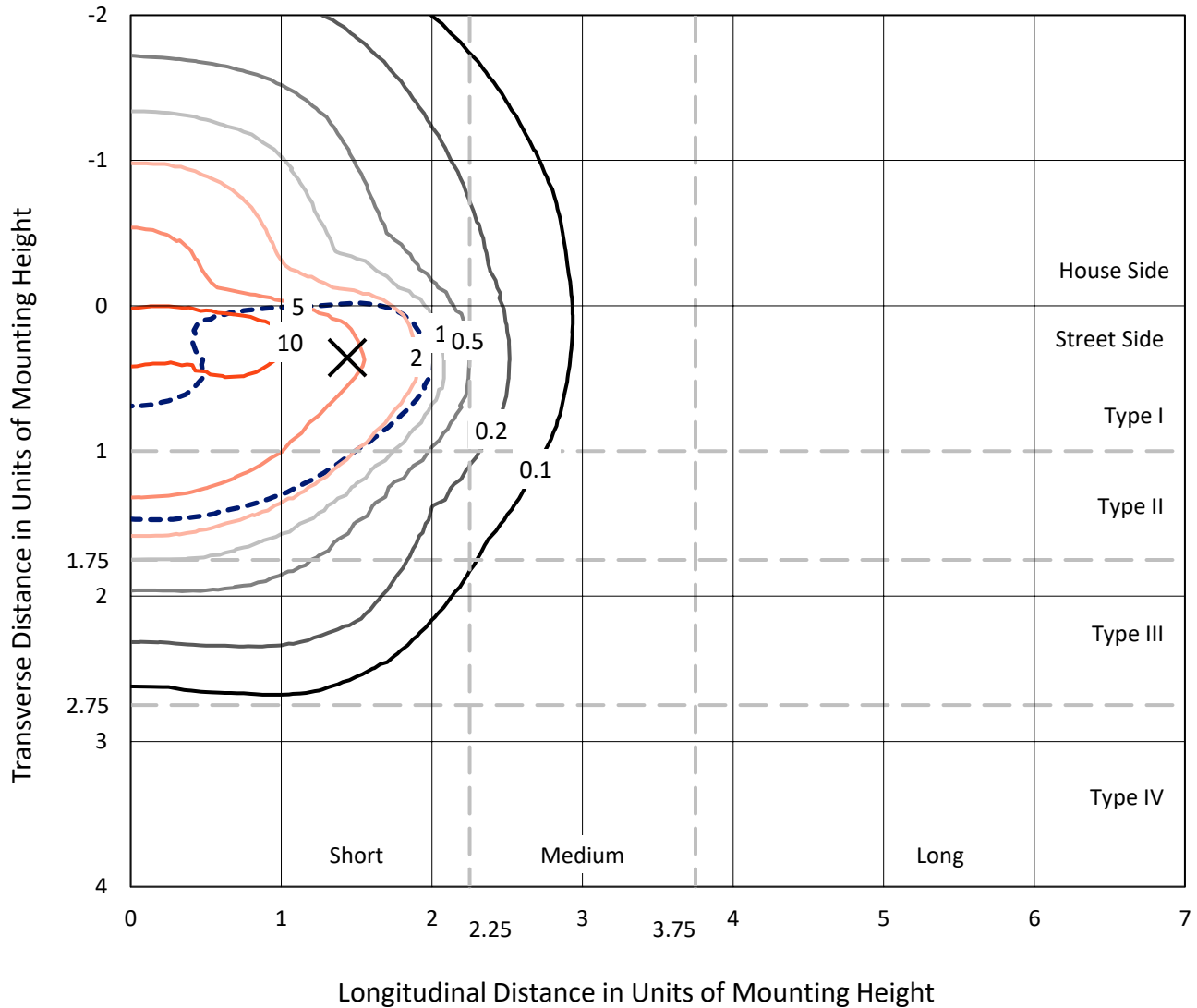
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

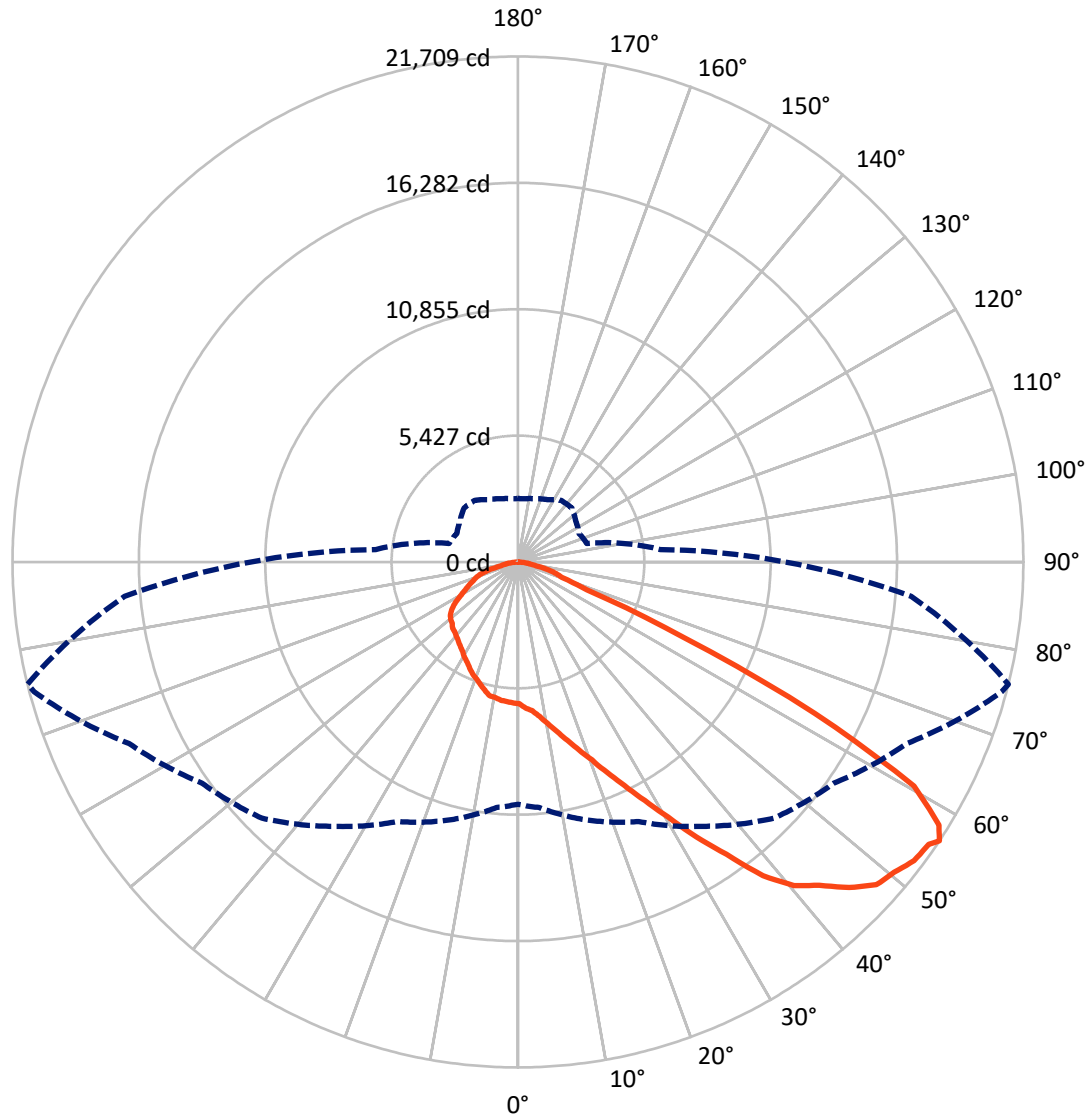
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	8552.2	0.0	8552.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	23255.8	0.0	23255.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	31808.0	0.0	31808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.6	1.9
10°-20°	1895.9	6.0
20°-30°	3315.8	10.4
30°-40°	5191.5	16.3
40°-50°	7552.2	23.7
50°-60°	8300.4	26.1
60°-70°	3704.9	11.6
70°-80°	1070.1	3.4
80°-90°	173.6	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°	31808.0	100.0
0°-180°	31808.0	100.0

Coefficient of Utilization



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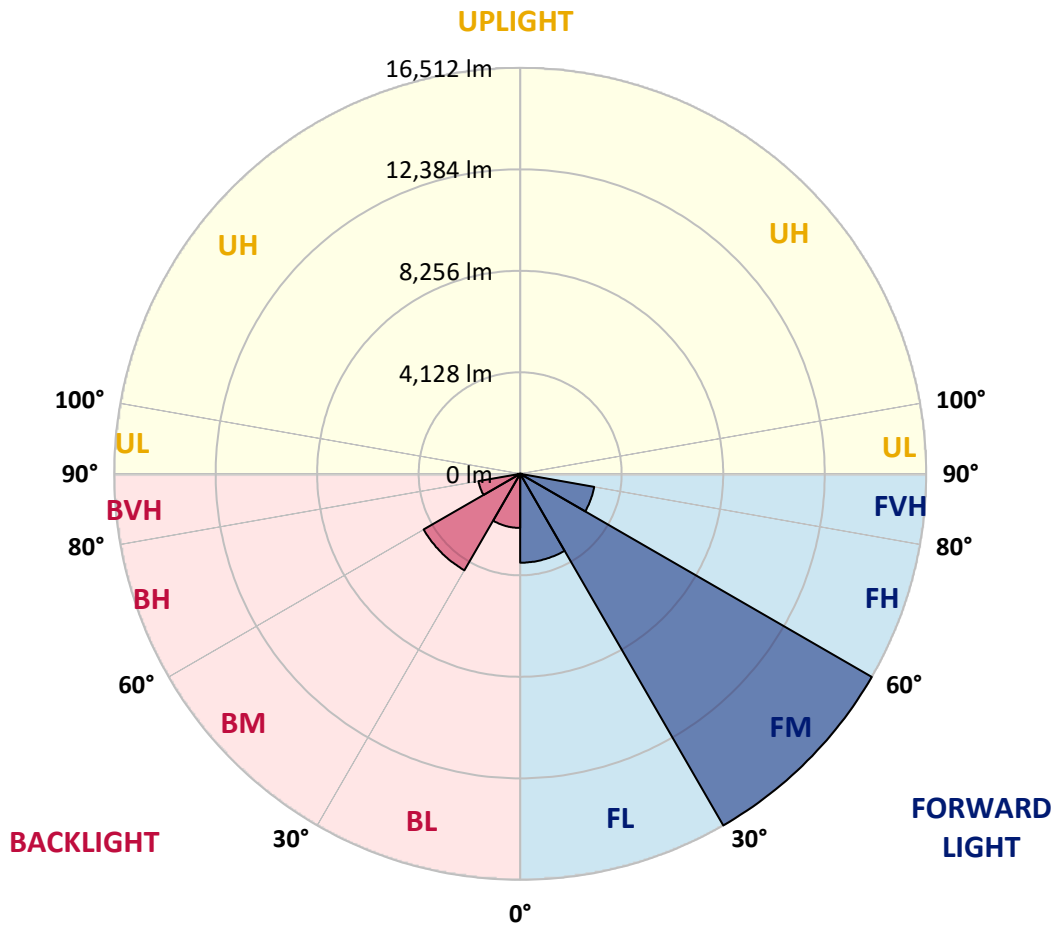
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3614.6	11.4			
FM (30°-60°)	16512.1	51.9			
FH (60°-80°)	3054.3	9.6			G2/5000
FVH (80°-90°)	74.7	0.2			G1/100
BL (0°-30°)	2200.6	6.9	B3/2500		
BM (30°-60°)	4532.0	14.2	B3/5000		
BH (60°-80°)	1720.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	98.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1
2.5°	6704.6	6597.3	6589.1	6560.2	6576.7	6502.5	6424.2	6321.1	6213.9	6279.8	6123.2
5°	7174.6	7030.3	7088.0	6989.1	7001.4	6902.5	6741.7	6622.1	6490.1	6411.8	6300.5
7.5°	7339.5	7351.9	7393.2	7376.7	7294.2	7294.2	7187.0	6976.7	6745.8	6700.4	6514.9
10°	7562.2	7566.3	7521.0	7533.3	7648.8	7595.2	7500.4	7409.6	7112.8	7059.2	6729.3
12.5°	7640.6	7566.3	7640.6	7706.5	7842.6	7916.8	7896.2	7830.2	7512.7	7475.6	6993.2
15°	7652.9	7607.6	7669.4	7817.9	7937.4	8250.8	8407.5	8362.1	7941.6	7945.7	7290.1
17.5°	7595.2	7657.0	7681.8	7809.6	8085.9	8378.6	8832.2	8894.0	8547.7	8494.1	7665.3
20°	7673.5	7628.2	7661.2	7776.6	8143.6	8601.3	9195.1	9603.3	9116.7	9079.6	8052.9
22.5°	7974.5	7912.7	7904.4	7978.7	8242.6	8716.7	9578.5	10312.5	9809.4	9830.0	8535.3
25°	8209.6	8242.6	8213.7	8209.6	8374.5	8889.9	10085.7	11157.8	10749.6	10630.0	9104.3
27.5°	8613.7	8692.0	8634.3	8712.6	8675.5	9149.7	10448.5	12093.8	11763.9	11603.1	9619.8
30°	9174.4	9215.7	9162.1	9162.1	9050.7	9512.5	10778.4	13071.0	12934.9	12716.4	10225.9
32.5°	9912.5	9974.4	9867.2	9805.3	9788.8	10052.7	11372.2	14035.9	14266.8	14081.2	11029.9
35°	10889.7	10852.6	10724.8	10667.1	10444.4	10881.5	12254.6	15145.0	15751.2	15421.3	12003.0
37.5°	11751.5	11693.8	11685.6	11363.9	11417.5	11776.3	13005.0	15986.2	17190.2	17095.4	13029.8
40°	12555.6	12609.2	12695.8	12514.3	12431.9	12827.7	13879.2	16629.4	18307.6	18270.5	13821.4
42.5°	13417.4	13367.9	13520.4	13367.9	13244.2	13804.9	14827.5	17074.8	19289.0	18983.9	14650.2
45°	14666.7	14510.0	14563.6	14576.0	14485.3	14691.5	15219.3	17396.4	19977.6	19944.6	15256.4
47.5°	15709.9	15714.1	15623.3	15553.2	15277.0	15483.1	15656.3	17598.4	20769.3	20715.7	15491.4
50°	16097.5	16043.9	16307.8	16460.4	16476.9	16056.3	15998.6	17709.8	21185.7	20950.7	15726.4
52.5°	14703.8	14753.3	15169.8	16076.9	16600.6	16645.9	16398.5	17940.7	21354.8	21305.3	15916.1
55°	11834.0	12073.1	12757.6	13804.9	15046.1	16410.9	16831.5	18179.8	21445.5	21404.3	16757.3
56°	10403.2	10588.7	11479.4	12299.9	13858.6	15557.4	16559.3	18435.5	21515.6	21709.4	16955.2
57.5°	8374.5	8588.9	9228.0	10159.9	11998.9	13932.8	15808.9	18122.1	21243.5	21317.7	17099.5
60°	5236.6	5257.3	6024.2	6638.6	7933.3	9821.8	12064.9	15767.7	19660.1	19552.9	15359.4
62.5°	3434.7	3438.9	4135.7	4638.8	5228.4	5661.3	7100.4	10456.8	14505.9	14316.2	10935.1
65°	2412.2	2465.8	3005.9	3678.0	3917.2	3690.4	3645.0	5512.9	8102.4	7830.2	5875.8
67.5°	1764.8	1768.9	2247.2	2968.8	3315.2	2808.0	2280.2	2692.5	3208.0	3199.7	2721.4
70°	1166.9	1216.4	1583.4	2218.4	2614.2	2255.5	1863.8	1925.6	2041.1	2041.1	2024.6
72.5°	680.4	725.7	969.0	1406.1	1467.9	1410.2	1476.2	1649.3	1723.6	1719.4	1698.8
75°	387.6	408.2	461.8	585.5	729.8	861.8	1084.4	1249.4	1323.6	1368.9	1315.3
77.5°	226.8	239.2	272.1	334.0	379.3	465.9	589.6	705.1	804.1	791.7	799.9
80°	119.6	119.6	152.6	197.9	263.9	329.9	391.7	457.7	511.3	523.7	536.0
82.5°	70.1	74.2	99.0	144.3	189.7	235.0	301.0	346.4	395.8	400.0	408.2
85°	37.1	41.2	61.9	94.8	127.8	144.3	148.4	140.2	152.6	144.3	164.9
87.5°	12.4	12.4	20.6	16.5	16.5	20.6	24.7	24.7	33.0	33.0	33.0
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°	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1	6086.1
2.5°	6119.0	6119.0	6048.9	5917.0	5896.4	5842.8	5793.3	5789.2	5752.1	5719.1	5702.6
5°	6234.5	6106.7	6003.6	5884.0	5743.8	5677.8	5603.6	5521.2	5488.2	5521.2	5517.0
7.5°	6366.4	6259.2	5950.0	5727.3	5566.5	5500.5	5418.1	5331.5	5339.7	5339.7	5282.0
10°	6494.3	6349.9	5855.1	5570.6	5335.6	5286.1	5240.8	5273.8	5315.0	5323.2	5286.1
12.5°	6708.7	6382.9	5809.8	5413.9	5265.5	5158.3	5187.2	5277.9	5364.5	5339.7	5368.6
15°	6869.5	6411.8	5603.6	5253.1	5067.6	5117.1	5220.2	5282.0	5426.3	5409.8	5438.7
17.5°	7026.2	6428.3	5401.6	5038.7	4960.4	5096.5	5174.8	5352.1	5397.5	5496.4	5533.5
20°	7347.8	6461.3	5195.4	4906.8	4882.0	5038.7	5174.8	5257.3	5356.2	5442.8	5442.8
22.5°	7512.7	6444.8	5059.3	4733.6	4811.9	4910.9	5034.6	5174.8	5174.8	5257.3	5261.4
25°	7718.9	6378.8	4844.9	4651.1	4708.9	4803.7	4943.9	4894.4	4948.0	4948.0	5014.0
27.5°	7953.9	6238.6	4659.4	4502.7	4618.1	4721.2	4741.8	4708.9	4647.0	4638.8	4614.0
30°	8143.6	6065.4	4523.3	4453.2	4548.0	4605.8	4539.8	4469.7	4362.5	4354.2	4296.5
32.5°	8403.4	5851.0	4354.2	4329.5	4436.7	4440.8	4420.2	4313.0	4156.3	4090.4	4024.4
35°	8840.4	5727.3	4226.4	4263.5	4296.5	4284.2	4247.0	4131.6	3974.9	3946.0	3921.3
37.5°	9162.1	5636.6	4094.5	4139.8	4168.7	4185.2	4073.9	3946.0	3950.2	3892.4	3875.9
40°	9524.9	5578.9	3987.3	4007.9	4012.0	4065.6	3929.5	3867.7	3896.6	3859.4	3884.2
42.5°	9990.9	5595.4	3875.9	3859.4	3937.8	3917.2	3851.2	3768.7	3785.2	3673.9	3690.4
45°	10238.3	5706.7	3810.0	3735.7	3822.3	3818.2	3731.6	3653.3	3554.3	3339.9	3348.2
47.5°	10403.2	5735.6	3653.3	3603.8	3694.5	3748.1	3649.2	3467.7	3327.5	3175.0	3137.9
50°	10572.2	5789.2	3579.1	3476.0	3513.1	3640.9	3517.2	3344.0	3208.0	3071.9	3092.5
52.5°	10720.7	5892.3	3434.7	3282.2	3348.2	3488.3	3422.4	3212.1	3063.6	2952.3	2919.3
55°	11380.4	6123.2	3191.5	2993.5	3150.2	3327.5	3290.4	3034.8	2874.0	2816.2	2808.0
56°	11483.5	6131.4	3063.6	2894.6	3038.9	3273.9	3228.6	2956.4	2812.1	2721.4	2725.5
57.5°	11500.0	6032.4	2882.2	2803.9	2927.6	3195.6	3137.9	2894.6	2696.7	2614.2	2589.5
60°	10118.7	4708.9	2655.4	2606.0	2750.3	2956.4	2935.8	2725.5	2502.9	2408.0	2453.4
62.5°	6898.4	3451.2	2478.1	2469.9	2544.1	2746.1	2692.5	2502.9	2317.3	2255.5	2226.6
65°	4016.1	2618.3	2304.9	2272.0	2333.8	2441.0	2478.1	2280.2	2086.4	2045.2	2032.8
67.5°	2370.9	2164.8	2082.3	2028.7	2008.1	2074.0	2102.9	1987.5	1793.7	1735.9	1785.4
70°	1983.3	1925.6	1929.7	1839.0	1789.5	1744.2	1719.4	1616.3	1455.5	1381.3	1360.7
72.5°	1711.2	1686.4	1670.0	1587.5	1542.1	1439.0	1331.8	1228.8	1109.2	1047.3	1051.5
75°	1307.1	1298.9	1307.1	1265.9	1187.5	1105.1	1006.1	874.1	783.4	705.1	721.6
77.5°	779.3	804.1	816.4	799.9	766.9	692.7	630.9	544.3	457.7	395.8	387.6
80°	536.0	556.7	577.3	556.7	523.7	470.1	404.1	338.1	276.3	243.3	235.0
82.5°	408.2	428.8	441.2	420.6	379.3	321.6	276.3	230.9	181.4	148.4	140.2
85°	148.4	169.1	164.9	197.9	214.4	206.2	177.3	136.1	103.1	74.2	70.1
87.5°	41.2	37.1	41.2	41.2	41.2	37.1	33.0	33.0	33.0	20.6	16.5
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)