

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: P532530

Luminaire Tested: **GALN-SA7D-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532530
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-SA7D-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA 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: 33225 lumens
Efficiency: N/A
Efficacy: 76.7 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

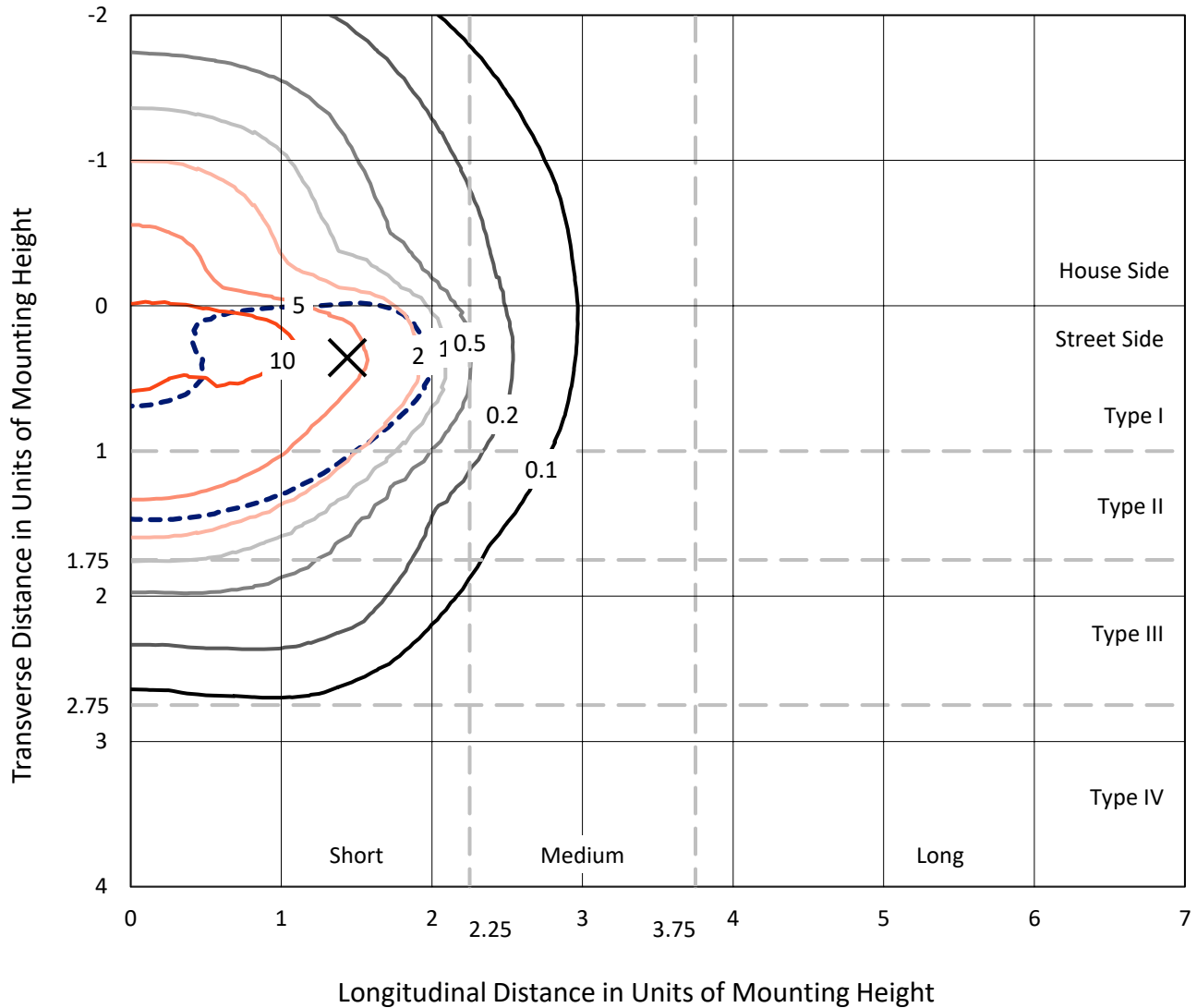
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

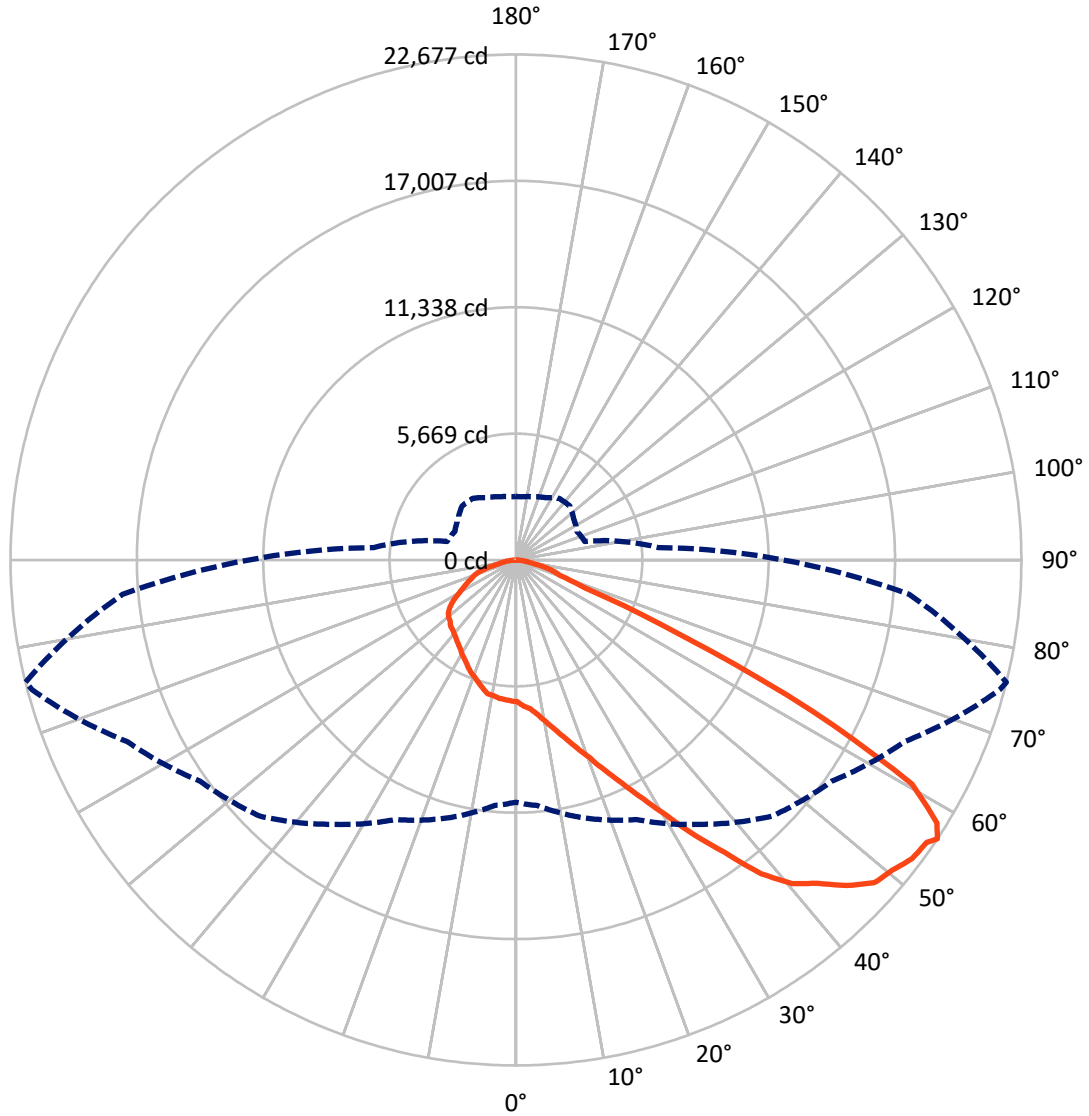
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA7D-827-U-T2-GRSWH

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	8933.2	0.0	8933.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	24291.8	0.0	24291.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	33225.0	0.0	33225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.4	1.9
10°-20°	1980.4	6.0
20°-30°	3463.5	10.4
30°-40°	5422.8	16.3
40°-50°	7888.7	23.7
50°-60°	8670.1	26.1
60°-70°	3870.0	11.6
70°-80°	1117.8	3.4
80°-90°	181.3	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°	33225.0	100.0
0°-180°	33225.0	100.0

Coefficient of Utilization



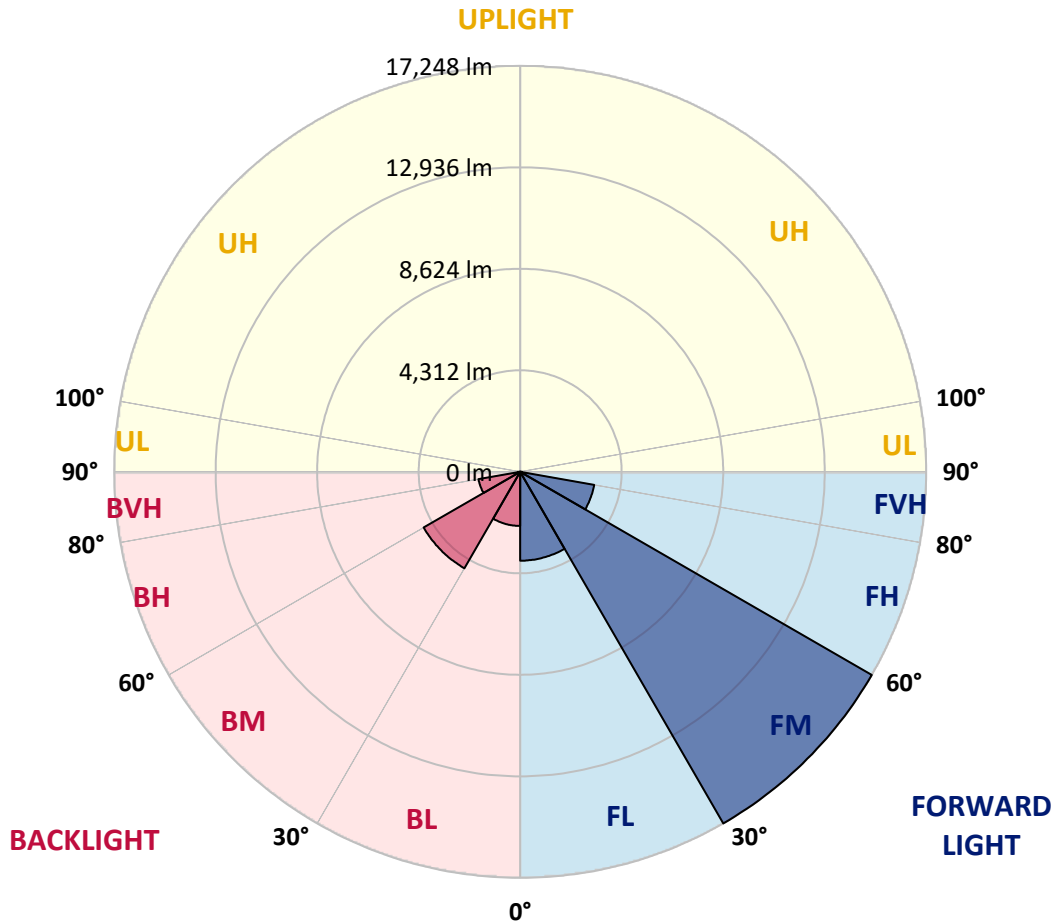
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3775.7	11.4			
FM (30°-60°)	17247.7	51.9			
FH (60°-80°)	3190.4	9.6			G2/5000
FVH (80°-90°)	78.0	0.2			G1/100
BL (0°-30°)	2298.7	6.9	B3/2500		
BM (30°-60°)	4733.9	14.2	B3/5000		
BH (60°-80°)	1797.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	103.3	0.3			G2/225
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°	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2
2.5°	7003.2	6891.2	6882.6	6852.5	6869.7	6792.2	6710.4	6602.7	6490.7	6559.6	6395.9
5°	7494.2	7343.5	7403.8	7300.4	7313.3	7210.0	7042.0	6917.1	6779.3	6697.4	6581.1
7.5°	7666.5	7679.4	7722.5	7705.3	7619.1	7619.1	7507.2	7287.5	7046.3	6998.9	6805.1
10°	7899.1	7903.4	7856.0	7868.9	7989.5	7933.6	7834.5	7739.7	7429.6	7373.6	7029.1
12.5°	7980.9	7903.4	7980.9	8049.8	8192.0	8269.5	8248.0	8179.1	7847.4	7808.6	7304.7
15°	7993.8	7946.5	8011.1	8166.1	8291.0	8618.4	8782.0	8734.7	8295.3	8299.6	7614.8
17.5°	7933.6	7998.2	8024.0	8157.5	8446.1	8751.9	9225.7	9290.3	8928.5	8872.5	8006.8
20°	8015.4	7968.0	8002.5	8123.1	8506.4	8984.5	9604.7	10031.1	9522.8	9484.1	8411.6
22.5°	8329.8	8265.2	8256.6	8334.1	8609.8	9105.1	10005.2	10771.9	10246.4	10268.0	8915.6
25°	8575.3	8609.8	8579.6	8575.3	8747.6	9286.0	10535.0	11654.8	11228.4	11103.5	9509.9
27.5°	8997.4	9079.2	9018.9	9100.8	9062.0	9557.3	10914.0	12632.5	12288.0	12120.0	10048.3
30°	9583.1	9626.2	9570.2	9570.2	9453.9	9936.3	11258.6	13653.3	13511.2	13282.9	10681.4
32.5°	10354.1	10418.7	10306.7	10242.1	10224.9	10500.5	11878.8	14661.1	14902.3	14708.5	11521.3
35°	11374.9	11336.1	11202.6	11142.3	10909.7	11366.3	12800.5	15819.7	16452.9	16108.3	12537.8
37.5°	12275.0	12214.7	12206.1	11870.2	11926.2	12300.9	13584.4	16698.4	17956.0	17856.9	13610.2
40°	13114.9	13170.9	13261.3	13071.8	12985.7	13399.2	14497.5	17370.3	19123.2	19084.5	14437.2
42.5°	14015.1	13963.4	14122.8	13963.4	13834.2	14419.9	15488.1	17835.4	20148.3	19829.6	15302.9
45°	15320.1	15156.4	15212.4	15225.4	15130.6	15345.9	15897.2	18171.4	20867.6	20833.1	15936.0
47.5°	16409.8	16414.1	16319.3	16246.1	15957.5	16172.9	16353.8	18382.4	21694.5	21638.5	16181.5
50°	16814.6	16758.7	17034.3	17193.7	17210.9	16771.6	16711.3	18498.7	22129.5	21884.0	16427.0
52.5°	15358.9	15410.6	15845.6	16793.1	17340.1	17387.5	17129.1	18739.9	22306.1	22254.4	16625.1
55°	12361.2	12611.0	13326.0	14419.9	15716.4	17142.0	17581.3	18989.7	22400.9	22357.8	17503.8
56°	10866.6	11060.5	11990.8	12847.9	14475.9	16250.4	17297.0	19256.7	22474.1	22676.5	17710.5
57.5°	8747.6	8971.5	9639.1	10612.5	12533.5	14553.5	16513.2	18929.4	22189.8	22267.3	17861.3
60°	5469.9	5491.5	6292.6	6934.3	8286.7	10259.3	12602.4	16470.1	20535.9	20423.9	16043.7
62.5°	3587.8	3592.1	4320.0	4845.4	5461.3	5913.6	7416.7	10922.6	15152.1	14954.0	11422.2
65°	2519.6	2575.6	3139.8	3841.9	4091.7	3854.8	3807.4	5758.5	8463.3	8179.1	6137.5
67.5°	1843.4	1847.7	2347.3	3101.1	3462.9	2933.1	2381.8	2812.5	3350.9	3342.3	2842.6
70°	1218.9	1270.6	1653.9	2317.2	2730.7	2355.9	1946.8	2011.4	2132.0	2132.0	2114.8
72.5°	710.7	758.0	1012.2	1468.7	1533.3	1473.0	1541.9	1722.8	1800.3	1796.0	1774.5
75°	404.9	426.4	482.4	611.6	762.3	900.2	1132.7	1305.0	1382.6	1429.9	1373.9
77.5°	236.9	249.8	284.3	348.9	396.2	486.7	615.9	736.5	839.9	826.9	835.6
80°	124.9	124.9	159.4	206.7	275.6	344.6	409.2	478.1	534.1	547.0	559.9
82.5°	73.2	77.5	103.4	150.7	198.1	245.5	314.4	361.8	413.5	417.8	426.4
85°	38.8	43.1	64.6	99.1	133.5	150.7	155.1	146.4	159.4	150.7	172.3
87.5°	12.9	12.9	21.5	17.2	17.2	21.5	25.8	25.8	34.5	34.5	34.5
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°	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2	6357.2
2.5°	6391.6	6391.6	6318.4	6180.6	6159.1	6103.1	6051.4	6047.1	6008.3	5973.9	5956.6
5°	6512.2	6378.7	6271.0	6146.1	5999.7	5930.8	5853.3	5767.1	5732.7	5767.1	5762.8
7.5°	6650.1	6538.1	6215.0	5982.5	5814.5	5745.6	5659.4	5569.0	5577.6	5577.6	5517.3
10°	6783.6	6632.8	6116.0	5818.8	5573.3	5521.6	5474.2	5508.7	5551.8	5560.4	5521.6
12.5°	7007.5	6667.3	6068.6	5655.1	5500.1	5388.1	5418.2	5513.0	5603.4	5577.6	5607.8
15°	7175.5	6697.4	5853.3	5487.2	5293.3	5345.0	5452.7	5517.3	5668.1	5650.8	5681.0
17.5°	7339.2	6714.7	5642.2	5263.2	5181.4	5323.5	5405.3	5590.5	5637.9	5741.3	5780.0
20°	7675.1	6749.1	5426.9	5125.4	5099.5	5263.2	5405.3	5491.5	5594.8	5685.3	5685.3
22.5°	7847.4	6731.9	5284.7	4944.5	5026.3	5129.7	5258.9	5405.3	5405.3	5491.5	5495.8
25°	8062.8	6663.0	5060.8	4858.3	4918.6	5017.7	5164.1	5112.4	5168.4	5168.4	5237.3
27.5°	8308.3	6516.5	4866.9	4703.3	4823.9	4931.6	4953.1	4918.6	4854.0	4845.4	4819.6
30°	8506.4	6335.6	4724.8	4651.6	4750.7	4811.0	4742.0	4668.8	4556.8	4548.2	4487.9
32.5°	8777.7	6111.7	4548.2	4522.4	4634.4	4638.7	4617.1	4505.2	4341.5	4272.6	4203.7
35°	9234.3	5982.5	4414.7	4453.5	4487.9	4475.0	4436.2	4315.6	4152.0	4121.8	4096.0
37.5°	9570.2	5887.7	4276.9	4324.3	4354.4	4371.6	4255.3	4121.8	4126.1	4065.8	4048.6
40°	9949.2	5827.4	4164.9	4186.4	4190.7	4246.7	4104.6	4040.0	4070.1	4031.4	4057.2
42.5°	10435.9	5844.6	4048.6	4031.4	4113.2	4091.7	4022.8	3936.6	3953.9	3837.6	3854.8
45°	10694.4	5960.9	3979.7	3902.2	3992.6	3988.3	3897.9	3816.0	3712.7	3488.7	3497.3
47.5°	10866.6	5991.1	3816.0	3764.3	3859.1	3915.1	3811.7	3622.2	3475.8	3316.4	3277.7
50°	11043.2	6047.1	3738.5	3630.8	3669.6	3803.1	3673.9	3493.0	3350.9	3208.7	3230.3
52.5°	11198.3	6154.7	3587.8	3428.4	3497.3	3643.7	3574.8	3355.2	3200.1	3083.8	3049.4
55°	11887.4	6395.9	3333.6	3126.9	3290.6	3475.8	3437.0	3170.0	3002.0	2941.7	2933.1
56°	11995.1	6404.6	3200.1	3023.5	3174.3	3419.8	3372.4	3088.1	2937.4	2842.6	2846.9
57.5°	12012.3	6301.2	3010.6	2928.8	3058.0	3337.9	3277.7	3023.5	2816.8	2730.7	2704.8
60°	10569.5	4918.6	2773.7	2722.0	2872.8	3088.1	3066.6	2846.9	2614.4	2515.3	2562.7
62.5°	7205.7	3605.0	2588.5	2579.9	2657.4	2868.5	2812.5	2614.4	2420.6	2355.9	2325.8
65°	4195.0	2735.0	2407.6	2373.2	2437.8	2549.8	2588.5	2381.8	2179.4	2136.3	2123.4
67.5°	2476.5	2261.2	2175.1	2119.1	2097.5	2166.4	2196.6	2076.0	1873.6	1813.3	1864.9
70°	2071.7	2011.4	2015.7	1920.9	1869.3	1821.9	1796.0	1688.4	1520.4	1442.9	1421.3
72.5°	1787.4	1761.6	1744.3	1658.2	1610.8	1503.2	1391.2	1283.5	1158.6	1094.0	1098.3
75°	1365.3	1356.7	1365.3	1322.3	1240.4	1154.3	1050.9	913.1	818.3	736.5	753.7
77.5°	814.0	839.9	852.8	835.6	801.1	723.6	659.0	568.5	478.1	413.5	404.9
80°	559.9	581.4	603.0	581.4	547.0	491.0	422.1	353.2	288.6	254.1	245.5
82.5°	426.4	447.9	460.9	439.3	396.2	335.9	288.6	241.2	189.5	155.1	146.4
85°	155.1	176.6	172.3	206.7	224.0	215.4	185.2	142.1	107.7	77.5	73.2
87.5°	43.1	38.8	43.1	43.1	43.1	38.8	34.5	34.5	34.5	21.5	17.2
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)