

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: P531728

Luminaire Tested: **GALN-SA7A-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25298 lumens
Efficiency: N/A
Efficacy: 117.7 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

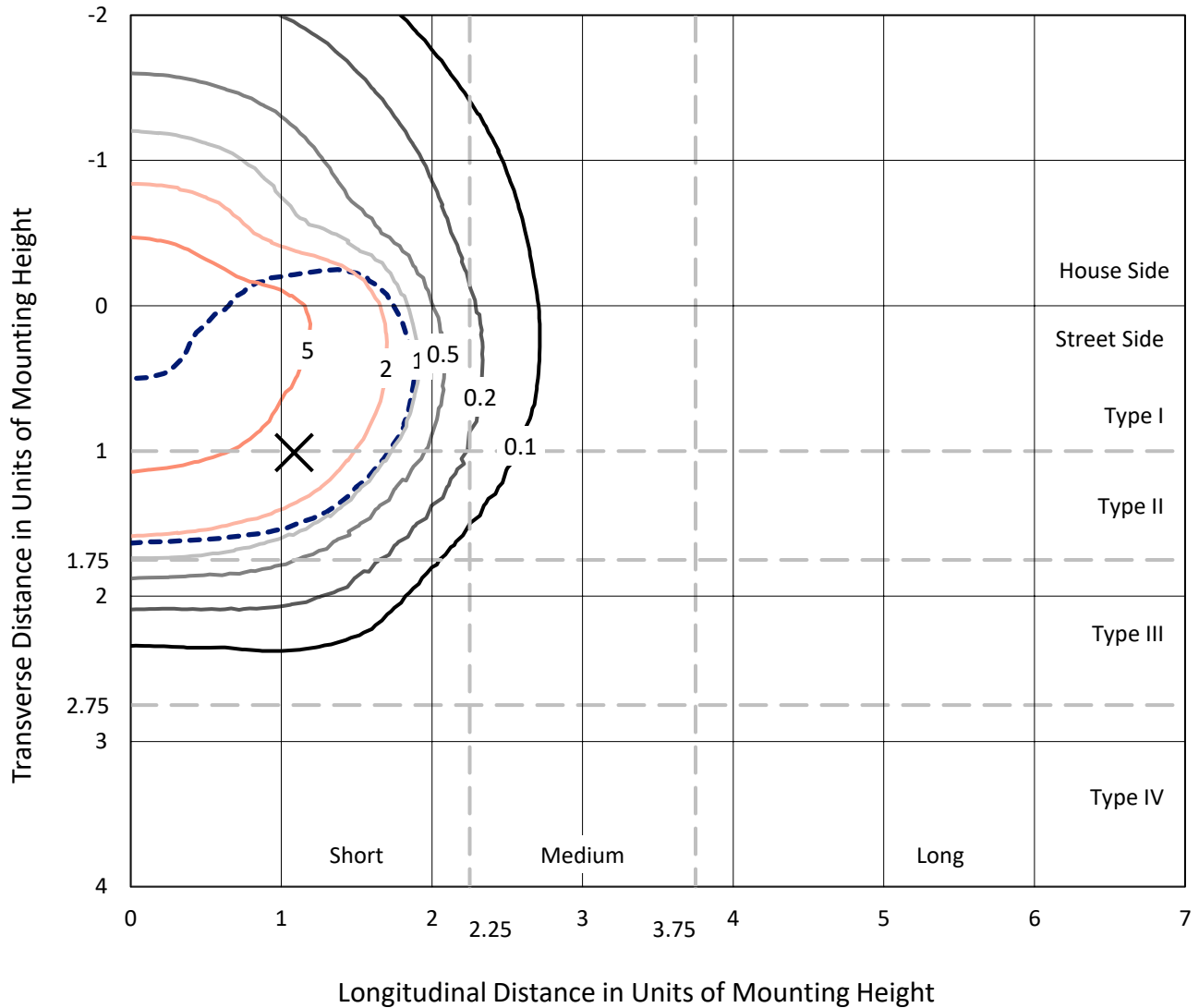
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531728
 CATALOG NUMBER: GALN-SA7A-735-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

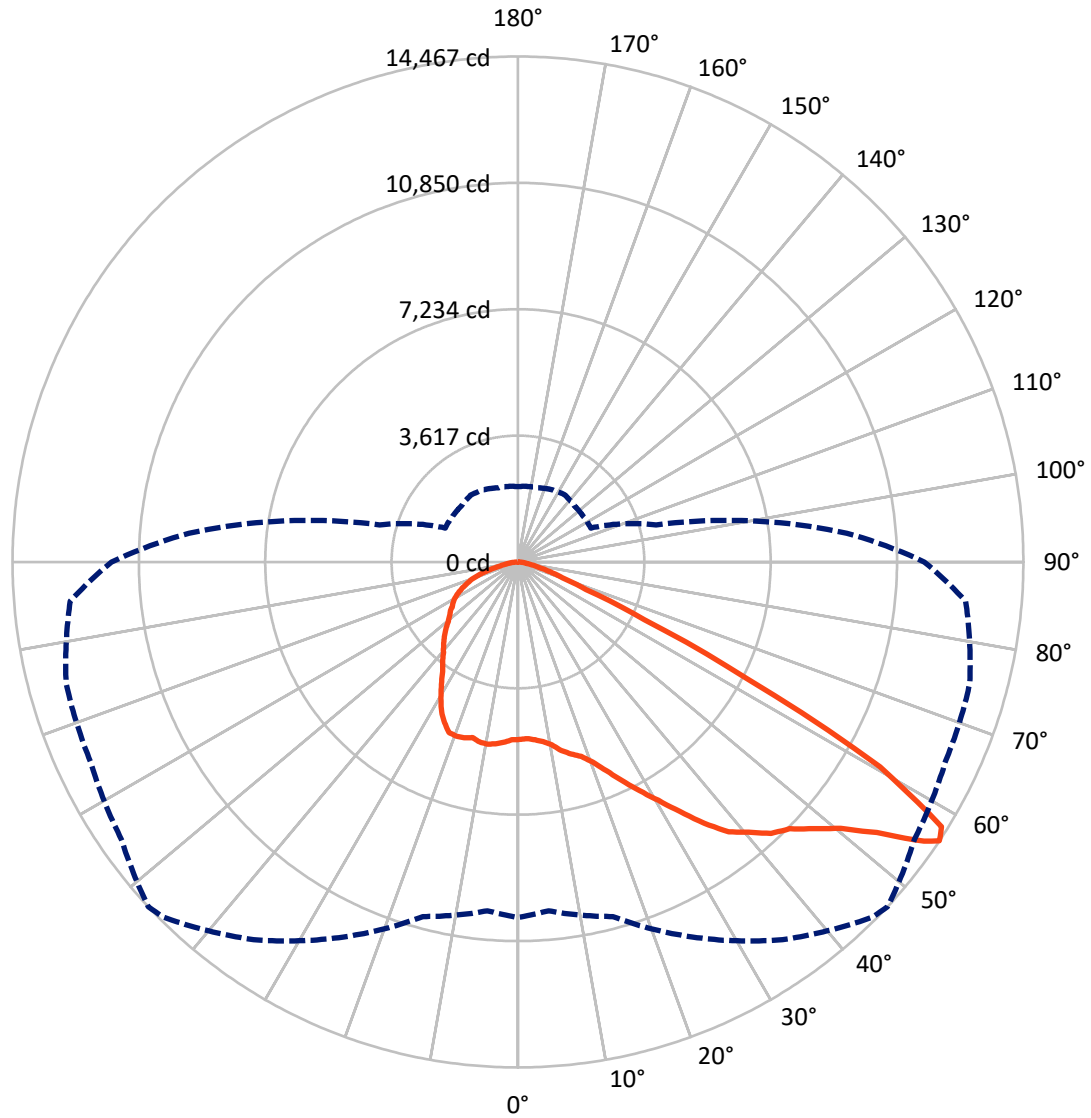
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

REPORT NUMBER: P531728
CATALOG NUMBER: GALN-SA7A-735-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P531728
 CATALOG NUMBER: GALN-SA7A-735-U-T3-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8016.6	0.0	8016.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	17281.4	0.0	17281.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	25298.0	0.0	25298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.1	2.0
10°-20°	1561.9	6.2
20°-30°	2761.1	10.9
30°-40°	4147.0	16.4
40°-50°	5691.4	22.5
50°-60°	6780.5	26.8
60°-70°	2901.7	11.5
70°-80°	821.2	3.2
80°-90°	138.2	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°	25298.0	100.0
0°-180°	25298.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531728

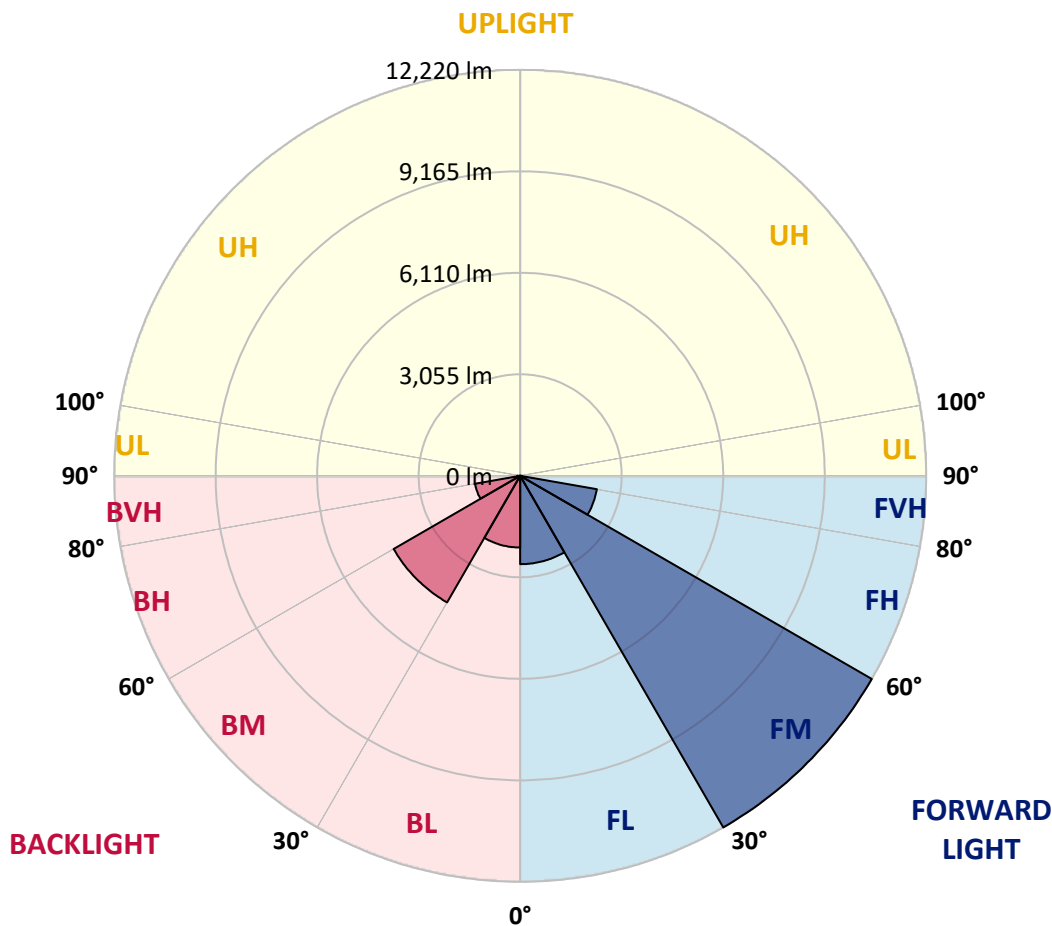
CATALOG NUMBER: GALN-SA7A-735-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2659.7	10.5			
FM (30°-60°)	12219.5	48.3			
FH (60°-80°)	2343.5	9.3			G2/5000
FVH (80°-90°)	58.7	0.2			G1/100
BL (0°-30°)	2158.4	8.5	B3/2500		
BM (30°-60°)	4399.4	17.4	B3/5000		
BH (60°-80°)	1379.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	79.5	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





REPORT NUMBER: P531728

CATALOG NUMBER: GALN-SA7A-735-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6
2.5°	5062.2	5052.6	5046.1	5097.7	5078.4	5081.6	5062.2	5081.6	5094.5	5065.5	5107.4
5°	5052.6	5081.6	5055.8	5071.9	5113.9	5101.0	5113.9	5152.6	5142.9	5133.2	5120.3
7.5°	5142.9	5146.1	5165.5	5171.9	5184.8	5171.9	5191.3	5226.8	5217.1	5162.3	5168.7
10°	5272.0	5278.4	5281.6	5317.1	5339.7	5342.9	5320.4	5288.1	5284.9	5359.1	5307.4
12.5°	5420.4	5404.2	5443.0	5455.9	5481.7	5510.7	5539.8	5472.0	5513.9	5517.2	5455.9
15°	5636.5	5652.7	5607.5	5607.5	5617.2	5620.4	5701.1	5668.8	5662.4	5626.9	5652.7
17.5°	5959.2	5849.5	5846.3	5801.1	5794.6	5820.4	5849.5	5875.3	5962.4	5891.4	5752.7
20°	6194.7	6220.5	6127.0	6072.1	6081.8	6139.9	6110.8	6227.0	6288.3	6172.1	6036.6
22.5°	6610.9	6523.8	6546.4	6423.8	6433.5	6494.8	6491.5	6610.9	6646.4	6462.5	6265.7
25°	6891.6	6869.0	6888.4	6791.6	6804.5	6852.9	6930.3	7127.1	7069.1	6865.8	6410.9
27.5°	7301.4	7256.2	7240.1	7204.6	7191.7	7320.7	7411.1	7620.8	7578.8	7282.0	6669.0
30°	7720.8	7691.8	7707.9	7562.7	7614.3	7888.6	7914.4	8201.5	8182.2	7659.5	6956.1
32.5°	8011.2	8027.3	8056.4	7975.7	8204.8	8424.2	8511.3	8837.1	8853.3	8308.0	7511.1
35°	8479.0	8424.2	8440.3	8533.9	8640.3	9040.4	9182.4	9398.5	9534.0	8988.8	8043.4
37.5°	8772.6	8830.7	8762.9	8911.4	9188.8	9669.6	9798.6	10021.2	10163.2	9659.9	8769.4
40°	9230.8	9137.2	9185.6	9292.1	9576.0	10201.9	10166.4	10395.5	10440.7	10231.0	9446.9
42.5°	9724.4	9679.2	9611.5	9853.5	10092.2	10547.1	10618.1	10511.7	10740.7	10789.1	10414.9
45°	10314.8	10369.7	10379.4	10385.8	10595.5	10992.4	10895.6	10802.0	11066.6	11418.3	11015.0
47.5°	10863.3	10689.1	10814.9	10989.2	11286.0	11289.2	11402.1	11179.5	11460.2	11773.2	11557.0
50°	11047.2	10963.3	11131.1	11460.2	11918.4	11966.8	11979.7	11663.5	11808.7	12057.1	11744.1
52.5°	10976.3	10947.2	11376.3	11886.1	12557.2	12802.4	12866.9	12476.5	12557.2	12444.3	12157.1
55°	10637.5	10724.6	11156.9	12195.8	13225.1	13983.3	14105.9	13612.2	13099.2	13186.3	12870.2
56°	10172.9	10021.2	10505.2	11844.2	13196.0	14367.2	14467.2	13851.0	13502.5	13389.6	12863.7
57.5°	8630.7	8433.8	9069.4	10656.8	12463.6	14222.0	14296.2	13951.0	13434.8	13205.7	11924.8
60°	5052.6	5149.4	5956.0	7349.8	9614.7	11660.3	11908.7	12160.3	11815.1	10789.1	8875.9
62.5°	2439.2	2377.9	2955.4	4213.7	5859.2	7443.3	7369.1	8075.7	8462.9	7666.0	5604.3
65°	1277.7	1271.2	1613.2	2300.4	3220.0	3910.4	3978.2	4358.9	4891.2	3949.1	2845.7
67.5°	938.9	964.7	1135.7	1616.4	2071.4	2113.3	2103.6	2294.0	2345.6	1984.2	1748.7
70°	735.6	748.5	874.4	1229.3	1542.2	1380.9	1351.9	1374.5	1526.1	1590.6	1513.2
72.5°	532.4	545.3	651.7	829.2	964.7	942.1	961.5	1087.3	1274.4	1342.2	1261.5
75°	354.9	364.6	422.7	506.5	571.1	616.2	651.7	796.9	971.2	1009.9	971.2
77.5°	245.2	254.9	293.6	358.1	364.6	393.6	406.5	474.3	580.8	629.2	603.3
80°	138.7	138.7	158.1	183.9	225.8	264.6	271.0	325.9	374.3	406.5	413.0
82.5°	64.5	67.8	83.9	112.9	148.4	183.9	190.4	225.8	261.3	293.6	303.3
85°	32.3	35.5	48.4	67.8	90.3	109.7	106.5	109.7	116.2	109.7	112.9
87.5°	9.7	9.7	12.9	16.1	12.9	16.1	16.1	19.4	22.6	25.8	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P531728

CATALOG NUMBER: GALN-SA7A-735-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6	5081.6
2.5°	5110.6	5120.3	5055.8	5117.1	5094.5	5091.3	5136.4	5130.0	5146.1	5139.7	5101.0
5°	5113.9	5091.3	5159.0	5097.7	5126.8	5188.1	5146.1	5242.9	5194.5	5226.8	5155.8
7.5°	5213.9	5220.3	5207.4	5233.2	5220.3	5249.4	5226.8	5249.4	5210.7	5213.9	5278.4
10°	5301.0	5281.6	5304.2	5272.0	5294.5	5284.9	5233.2	5217.1	5230.0	5213.9	5255.8
12.5°	5462.3	5426.8	5410.7	5372.0	5346.2	5249.4	5168.7	5123.5	5184.8	5194.5	5175.2
15°	5626.9	5630.1	5555.9	5468.8	5307.4	5162.3	5181.6	5197.8	5197.8	5223.6	5175.2
17.5°	5730.1	5730.1	5662.4	5488.1	5323.6	5239.7	5220.3	5168.7	5123.5	5117.1	5113.9
20°	5910.8	5855.9	5701.1	5484.9	5317.1	5278.4	5133.2	5010.6	4917.1	4884.8	4881.6
22.5°	6117.3	5978.5	5762.4	5491.4	5307.4	5252.6	4981.6	4797.7	4629.9	4558.9	4568.6
25°	6307.6	6085.0	5797.9	5462.3	5272.0	5007.4	4704.1	4449.2	4275.0	4216.9	4187.9
27.5°	6439.9	6197.9	5797.9	5488.1	5139.7	4733.1	4423.4	4097.5	3945.9	3907.2	3913.6
30°	6617.4	6339.9	5897.9	5433.3	4875.1	4378.2	4007.2	3794.3	3703.9	3671.7	3694.2
32.5°	7033.6	6710.9	6036.6	5301.0	4562.1	4023.3	3723.3	3603.9	3471.6	3407.1	3384.5
35°	7485.3	7062.6	6172.1	5078.4	4210.5	3700.7	3513.6	3403.9	3245.8	3174.8	3187.7
37.5°	8124.1	7514.3	6181.8	4710.6	3829.8	3520.0	3349.0	3178.0	3049.0	2939.3	2907.0
40°	8985.6	8130.6	6159.2	4323.4	3523.2	3307.1	3181.2	2968.3	2823.1	2745.7	2761.8
42.5°	9743.8	8853.3	6065.7	3884.6	3245.8	3161.9	3019.9	2810.2	2668.2	2587.6	2581.1
45°	10382.6	9385.6	5888.2	3510.3	3013.5	3000.6	2836.0	2674.7	2561.8	2487.6	2519.8
47.5°	10973.0	9814.7	5620.4	3136.1	2800.5	2826.3	2668.2	2568.2	2497.2	2429.5	2426.3
50°	11186.0	9808.3	5384.9	2826.3	2629.5	2616.6	2610.2	2503.7	2429.5	2371.4	2397.2
52.5°	11540.9	9918.0	5130.0	2613.4	2474.7	2477.9	2500.5	2423.0	2339.1	2303.7	2335.9
55°	12050.7	9934.1	4568.6	2365.0	2345.6	2368.2	2368.2	2316.6	2245.6	2216.5	2200.4
56°	11634.4	9453.4	4097.5	2300.4	2281.1	2281.1	2342.4	2284.3	2197.2	2174.6	2155.2
57.5°	10731.0	8282.2	3429.7	2223.0	2194.0	2239.1	2271.4	2210.1	2129.4	2097.2	2116.5
60°	7401.4	5604.3	2577.9	2055.2	2055.2	2129.4	2155.2	2064.9	2029.4	2026.2	2000.4
62.5°	4320.2	3265.1	2016.5	1903.6	1910.0	1971.3	1990.7	1939.1	1893.9	1948.8	1974.6
65°	2290.8	1948.8	1729.4	1742.3	1745.5	1793.9	1877.8	1874.5	1871.3	1887.5	1890.7
67.5°	1658.4	1619.7	1571.3	1558.4	1564.8	1600.3	1684.2	1748.7	1745.5	1706.8	1677.7
70°	1477.7	1422.8	1393.8	1397.0	1371.2	1413.2	1480.9	1522.9	1448.7	1403.5	1384.1
72.5°	1229.3	1213.1	1193.8	1197.0	1145.4	1135.7	1058.3	1058.3	1038.9	1026.0	1048.6
75°	938.9	932.4	942.1	926.0	871.1	813.1	767.9	725.9	661.4	635.6	622.7
77.5°	593.7	613.0	635.6	600.1	577.5	535.6	490.4	448.5	396.8	367.8	367.8
80°	403.3	419.4	435.6	429.1	403.3	364.6	329.1	283.9	248.4	225.8	222.6
82.5°	306.5	319.4	342.0	316.2	290.4	258.1	229.1	196.8	164.5	138.7	138.7
85°	109.7	125.8	138.7	151.6	161.3	164.5	142.0	116.2	93.6	74.2	71.0
87.5°	29.0	32.3	35.5	32.3	32.3	32.3	35.5	32.3	29.0	22.6	22.6
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)