

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: P531730

Luminaire Tested: **GALN-SA7A-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531730  
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-SA7A-735-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA 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: 25902 lumens  
Efficiency: N/A  
Efficacy: 120.5 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

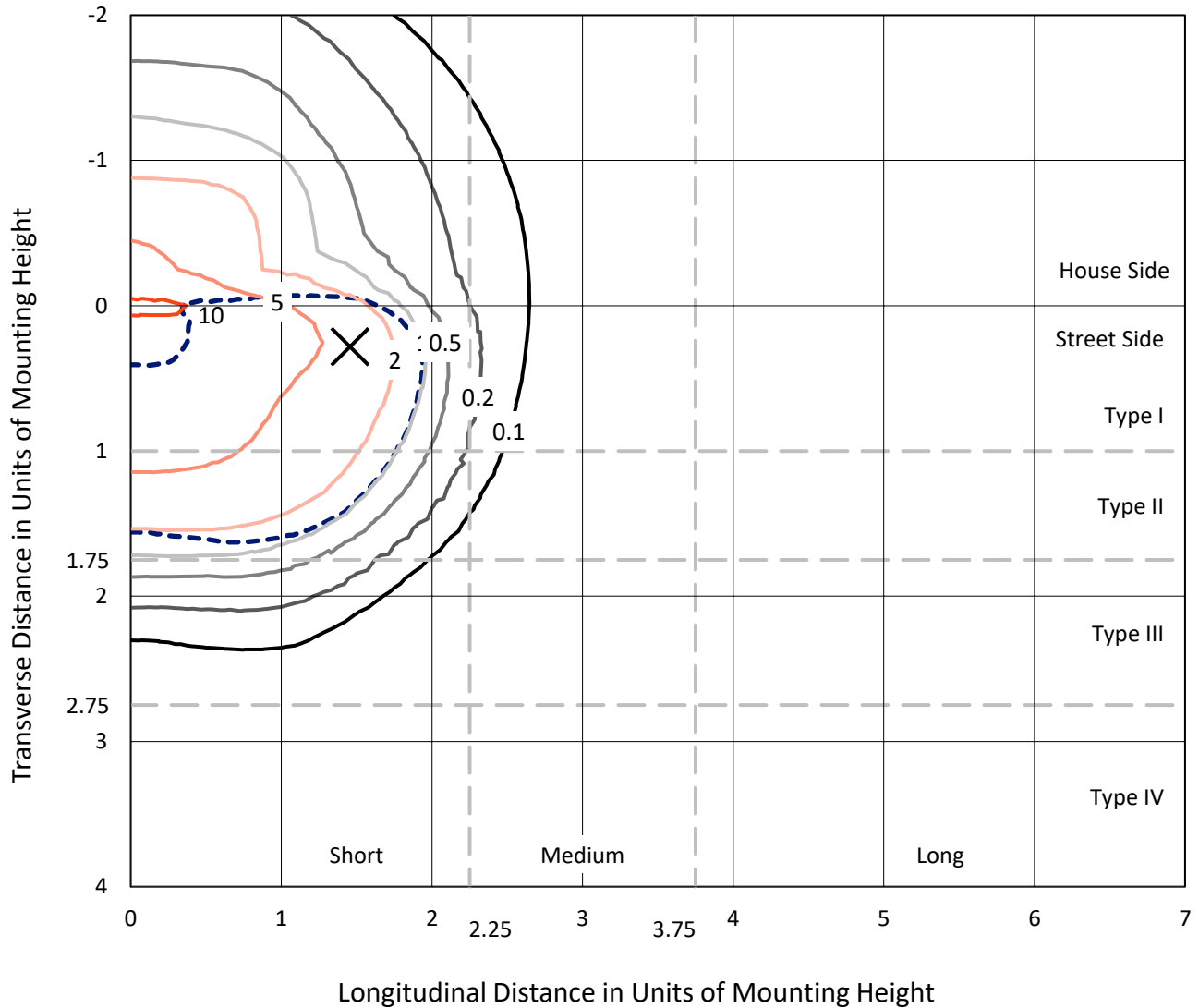
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

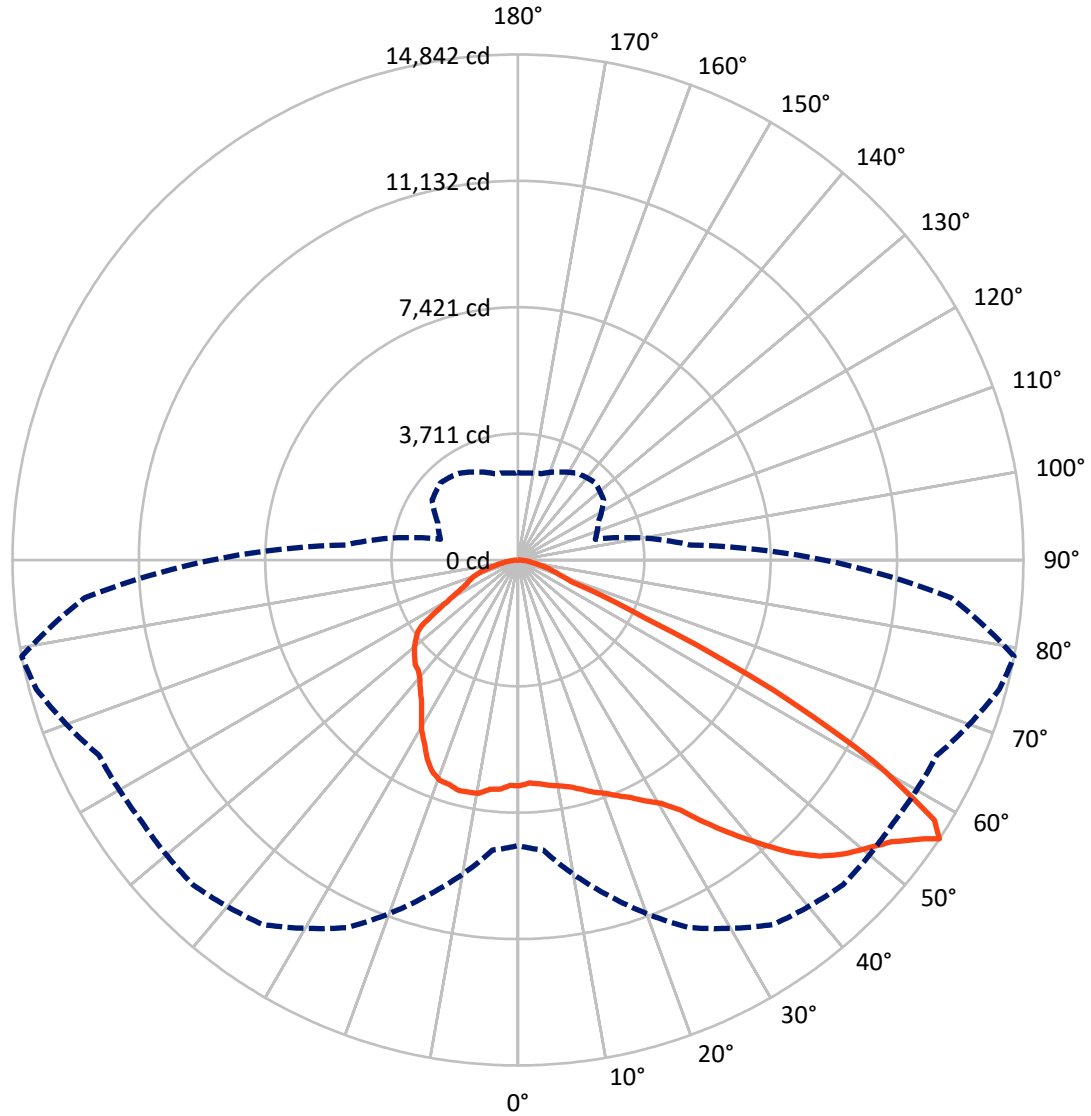
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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
<b>House Side</b>	Lumens	7649.4	0.0	7649.4
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	18252.6	0.0	18252.6
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	25902.0	0.0	25902.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	602.5	2.3
10°-20°	1649.0	6.4
20°-30°	2821.1	10.9
30°-40°	4323.7	16.7
40°-50°	5843.5	22.6
50°-60°	6711.5	25.9
60°-70°	3059.3	11.8
70°-80°	754.3	2.9
80°-90°	137.1	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°	25902.0	100.0
0°-180°	25902.0	100.0

**Coefficient of Utilization**

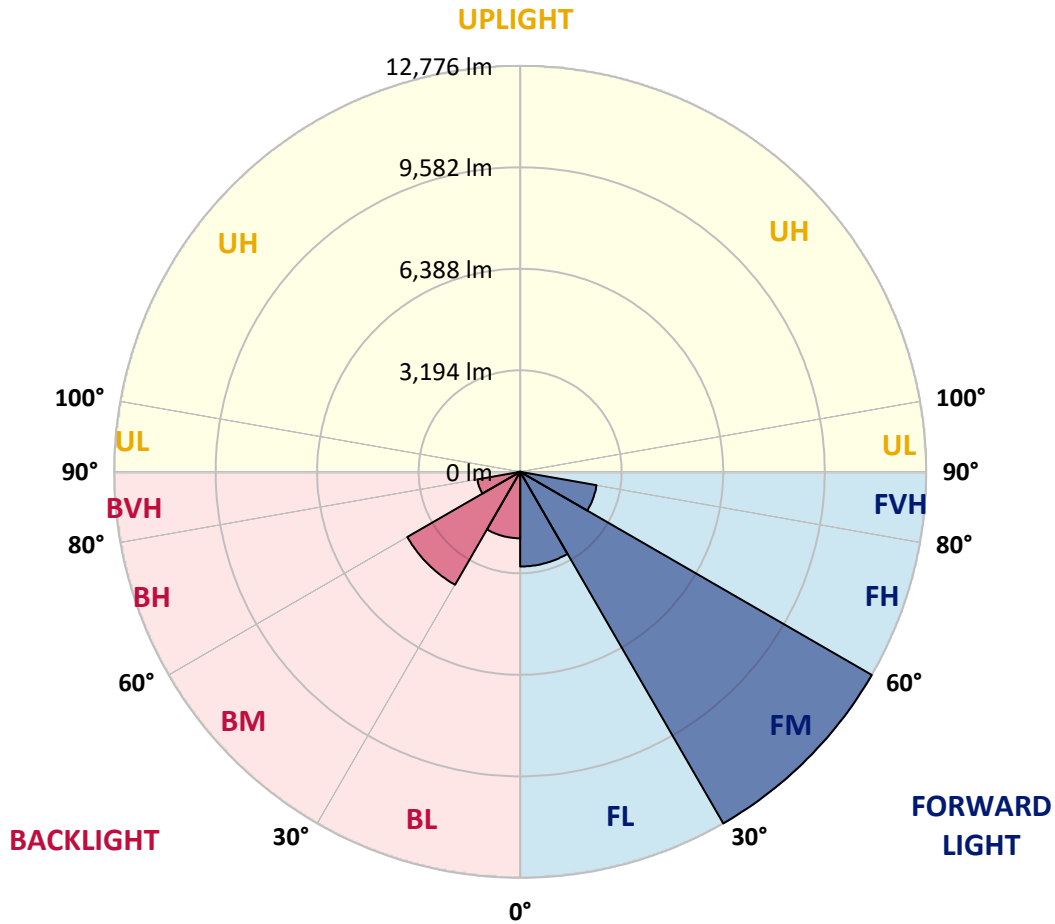


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2980.2	11.5			
FM (30°-60°)	12775.6	49.3			
FH (60°-80°)	2442.0	9.4			G2/5000
FVH (80°-90°)	54.7	0.2			G1/100
BL (0°-30°)	2092.5	8.1	B3/2500		
BM (30°-60°)	4103.0	15.8	B3/5000		
BH (60°-80°)	1371.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	82.3	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°	79°	85°
0°	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3
2.5°	6304.6	6288.5	6327.2	6356.3	6391.8	6436.9	6459.5	6472.4	6585.4	6556.3	6643.4
5°	6169.1	6127.2	6156.2	6178.8	6240.1	6295.0	6356.3	6453.1	6556.3	6601.5	6708.0
7.5°	6049.7	6027.2	6020.7	6036.8	6120.7	6191.7	6298.2	6440.2	6607.9	6682.1	6743.5
10°	5852.9	5820.7	5869.1	5975.5	5998.1	6146.5	6269.2	6472.4	6617.6	6746.7	6927.4
12.5°	5765.8	5733.5	5743.2	5804.5	5962.6	6104.6	6249.8	6478.9	6785.4	6837.0	7079.0
15°	5904.6	5872.3	5882.0	5865.8	6017.5	6091.7	6320.8	6607.9	6901.6	6988.7	7246.8
17.5°	6220.8	6224.0	6182.0	6146.5	6111.1	6269.2	6427.3	6685.4	6946.7	7166.1	7359.7
20°	6824.1	6717.6	6633.7	6433.7	6378.9	6446.6	6646.7	6895.1	7130.6	7311.3	7530.7
22.5°	7288.7	7298.4	7179.0	6849.9	6730.5	6759.6	6930.6	7133.9	7392.0	7521.0	7772.7
25°	7963.1	7895.3	7766.3	7504.9	7237.1	7259.7	7385.5	7569.4	7640.4	7730.8	8005.0
27.5°	8579.3	8598.7	8343.8	8098.6	7766.3	7701.7	7927.6	7959.9	7840.5	8011.5	8105.0
30°	9205.3	9189.2	9021.4	8734.2	8408.3	8421.2	8521.3	8363.2	8198.6	8292.2	8356.7
32.5°	9853.8	9669.9	9663.5	9405.3	9156.9	9037.5	8914.9	8992.3	8737.4	8756.8	8695.5
35°	10373.3	10399.1	10250.7	10066.8	9944.2	9734.4	9398.9	9537.6	9489.2	9466.6	9202.1
37.5°	10750.8	10650.8	10725.0	10663.7	10547.5	10286.2	9937.7	10070.0	10092.6	10202.3	9895.8
40°	11060.6	11018.6	11215.4	11247.7	11167.0	10602.4	9976.4	10370.1	10708.9	10947.6	10583.0
42.5°	11209.0	11299.3	11505.8	11754.3	11573.6	10970.2	10176.5	10599.2	11354.2	11731.7	11234.8
45°	11409.0	11292.9	11599.4	12054.3	12057.5	11280.0	10370.1	10908.9	11857.5	12406.0	11680.0
47.5°	11205.7	11263.8	11580.0	12157.6	12306.0	11605.8	10892.8	11347.7	12412.5	12899.7	12093.0
50°	10750.8	10867.0	11444.5	12044.6	12493.1	11951.1	11492.9	11822.0	12925.5	13296.5	12160.8
52.5°	10276.5	10341.0	11244.5	12131.8	12577.0	12396.3	12296.3	12477.0	13551.4	13745.0	12244.7
55°	8985.9	9292.4	10583.0	12093.0	12986.8	13199.7	13122.3	13386.9	14261.3	14454.9	12702.9
56°	8389.0	8550.3	10186.2	11912.4	13067.5	13493.4	13454.6	13574.0	14638.8	14842.0	12773.8
57.5°	7285.5	7298.4	8685.8	11112.2	12764.2	13580.5	13541.8	13635.3	14564.6	14425.8	12151.1
60°	4559.1	4759.1	5911.0	8547.1	10854.1	12599.6	12819.0	12067.2	12280.2	11986.6	9453.7
62.5°	2361.8	2332.8	3097.5	4997.9	7204.8	9021.4	9224.7	9189.2	8860.1	8430.9	6175.6
65°	1177.7	1184.1	1619.7	2474.7	3691.2	4723.6	5291.5	5352.8	4478.4	4120.3	2929.7
67.5°	855.0	887.3	1164.8	1513.2	1739.1	1945.6	2384.4	2339.2	1771.4	1684.2	1561.6
70°	664.7	693.7	945.4	1155.1	1048.6	1048.6	1142.2	1180.9	1261.6	1297.1	1339.0
72.5°	484.0	506.6	722.7	797.0	687.3	738.9	855.0	945.4	1029.3	1042.2	1090.6
75°	332.3	351.7	474.3	438.8	413.0	509.8	625.9	709.8	771.1	803.4	832.4
77.5°	216.2	222.6	271.0	229.1	264.6	329.1	406.5	477.5	538.8	564.6	571.1
80°	96.8	106.5	116.2	145.2	183.9	235.5	290.4	348.5	387.2	396.9	416.2
82.5°	54.9	54.9	71.0	103.2	135.5	171.0	209.7	251.7	296.8	306.5	303.3
85°	29.0	29.0	41.9	61.3	83.9	100.0	96.8	100.0	106.5	122.6	119.4
87.5°	9.7	9.7	12.9	12.9	16.1	19.4	16.1	22.6	29.0	29.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3	6627.3
2.5°	6617.6	6646.7	6607.9	6691.8	6691.8	6675.7	6595.0	6620.8	6640.2	6640.2	6656.3
5°	6743.5	6733.8	6759.6	6659.6	6598.3	6575.7	6443.4	6378.9	6324.0	6320.8	6272.4
7.5°	6814.4	6788.6	6778.9	6704.7	6433.7	6269.2	5985.2	5820.7	5785.2	5659.3	5707.7
10°	6927.4	6975.8	6927.4	6524.0	6146.5	5769.0	5491.6	5236.7	5136.6	5056.0	5007.6
12.5°	7159.7	7137.1	6856.4	6311.1	5781.9	5333.5	4920.5	4652.7	4552.6	4481.7	4475.2
15°	7356.5	7243.6	6814.4	5975.5	5214.1	4736.5	4397.8	4207.4	4162.2	4168.7	4197.7
17.5°	7424.2	7346.8	6595.0	5627.1	4791.4	4230.0	4071.9	4042.8	4084.8	4133.2	4146.1
20°	7530.7	7408.1	6504.7	5152.8	4268.7	3913.8	3904.1	4007.4	4084.8	4155.8	4165.5
22.5°	7753.4	7443.6	6211.1	4704.3	3910.6	3820.2	3913.8	4000.9	4120.3	4178.4	4126.7
25°	7817.9	7366.2	5798.1	4165.5	3684.7	3762.1	3862.2	3981.5	4065.4	4097.7	4120.3
27.5°	7872.7	7246.8	5239.9	3807.3	3613.7	3758.9	3862.2	3962.2	4007.4	4036.4	4062.2
30°	8027.6	7211.3	4755.9	3568.5	3568.5	3694.4	3826.7	3852.5	3913.8	3949.3	3994.4
32.5°	8105.0	6966.1	4259.0	3416.9	3523.4	3726.6	3736.3	3784.7	3787.9	3817.0	3768.6
35°	8308.3	6791.8	3797.6	3307.2	3542.7	3694.4	3742.8	3713.7	3555.6	3478.2	3494.3
37.5°	8456.7	6704.7	3465.3	3294.3	3546.0	3729.9	3755.7	3536.3	3371.7	3242.7	3274.9
40°	8856.8	6488.6	3213.6	3271.7	3575.0	3768.6	3697.6	3458.8	3162.0	3029.7	3007.1
42.5°	9163.4	6333.7	3055.5	3245.9	3597.6	3823.4	3668.6	3304.0	3000.7	2878.1	2910.3
45°	9518.3	6298.2	2971.6	3252.3	3636.3	3852.5	3633.1	3184.6	2861.9	2813.5	2803.9
47.5°	9644.1	6043.3	2881.3	3197.5	3626.6	3842.8	3513.7	3094.2	2810.3	2816.8	2842.6
50°	9434.4	5781.9	2813.5	3084.6	3562.1	3755.7	3326.6	2974.9	2781.3	2861.9	2907.1
52.5°	9166.6	5514.1	2674.8	2932.9	3429.8	3620.2	3239.4	2968.4	2752.2	2726.4	2736.1
55°	9247.2	5294.7	2481.2	2726.4	3216.9	3368.5	3142.6	2907.1	2681.2	2584.5	2616.7
56°	8985.9	5068.9	2355.4	2597.4	3071.7	3207.2	3094.2	2852.3	2623.2	2558.6	2558.6
57.5°	8247.0	4310.6	2190.8	2390.9	2765.1	2926.5	3000.7	2820.0	2558.6	2445.7	2448.9
60°	6082.0	3065.2	1965.0	2106.9	2290.8	2419.9	2765.1	2729.6	2397.3	2319.9	2290.8
62.5°	3749.2	2239.2	1803.6	1858.5	1952.1	2058.5	2413.4	2471.5	2226.3	2142.4	2123.1
65°	2100.5	1713.3	1681.0	1703.6	1748.8	1803.6	2003.7	2132.7	1965.0	1835.9	1829.4
67.5°	1535.8	1532.6	1558.4	1577.8	1597.1	1597.1	1645.5	1697.2	1674.6	1571.3	1561.6
70°	1364.8	1374.5	1393.9	1397.1	1403.5	1381.0	1342.2	1326.1	1351.9	1287.4	1274.5
72.5°	1126.1	1158.3	1180.9	1184.1	1148.6	1119.6	1068.0	1013.1	993.8	980.9	977.6
75°	864.7	887.3	897.0	893.7	880.8	838.9	777.6	722.7	687.3	648.5	667.9
77.5°	584.0	616.3	632.4	632.4	613.0	548.5	519.5	477.5	442.0	400.1	406.5
80°	409.8	432.4	458.2	454.9	422.7	390.4	348.5	309.7	280.7	248.4	245.2
82.5°	306.5	319.4	332.3	325.9	303.3	271.0	242.0	206.5	174.2	151.6	151.6
85°	109.7	119.4	145.2	151.6	164.6	164.6	138.7	116.2	93.6	77.4	77.4
87.5°	32.3	32.3	35.5	35.5	32.3	35.5	29.0	32.3	35.5	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)