

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: P533524

Luminaire Tested: **GALN-SA9A-722-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533524
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-SA9A-722-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 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: 26605 lumens
Efficiency: N/A
Efficacy: 97.1 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

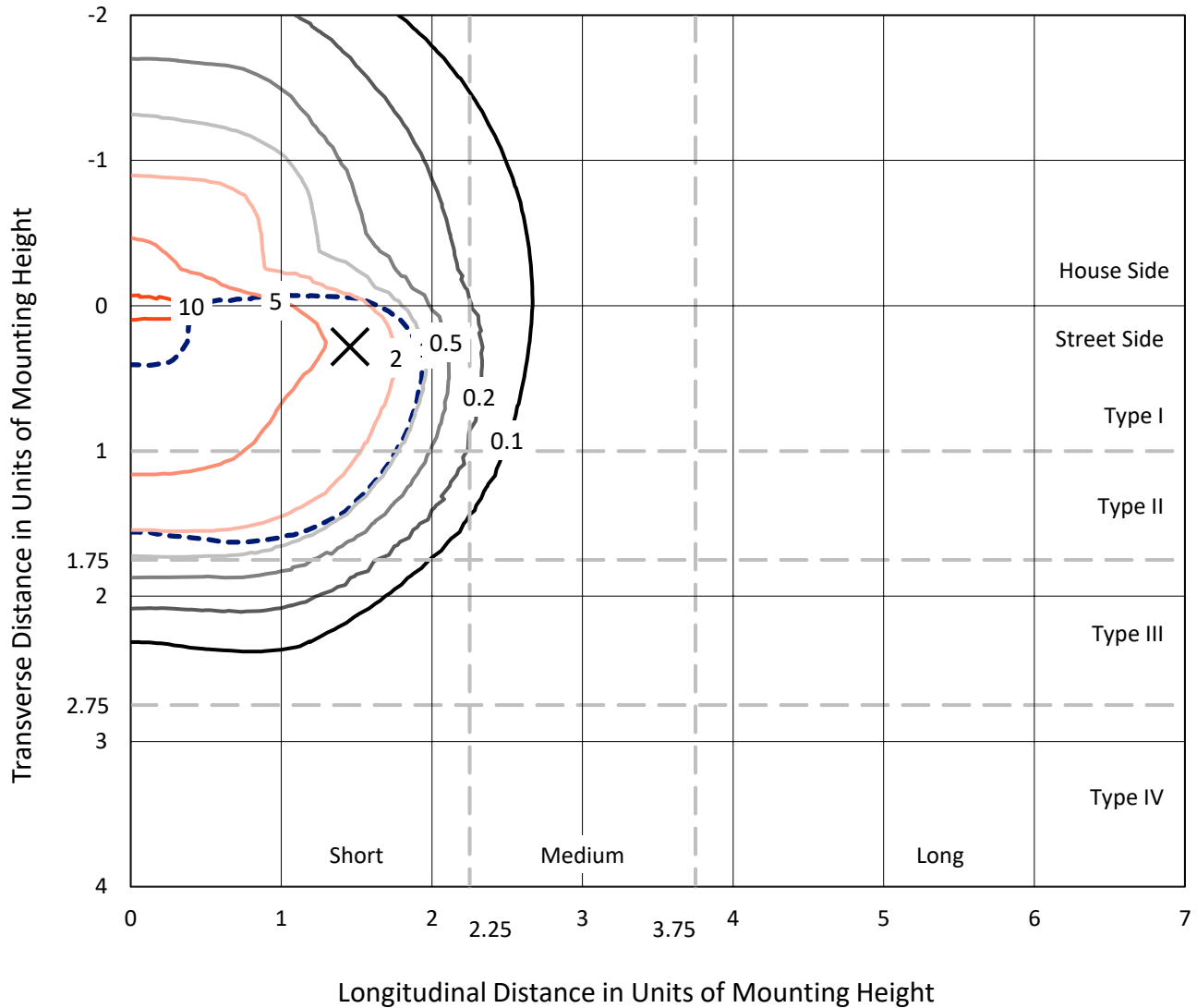
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

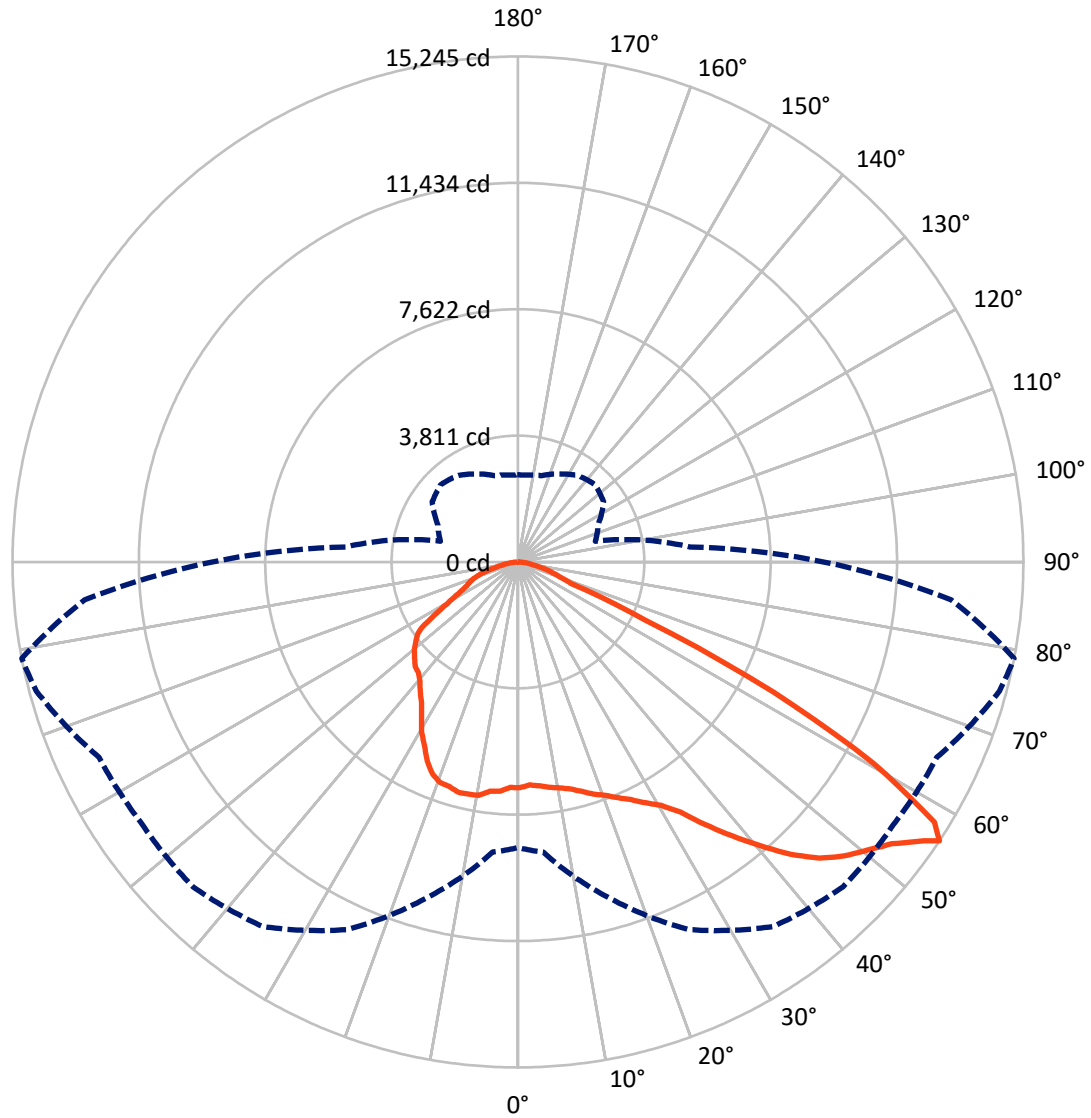
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	7857.0	0.0	7857.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	18748.0	0.0	18748.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	26605.0	0.0	26605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.9	2.3
10°-20°	1693.8	6.4
20°-30°	2897.7	10.9
30°-40°	4441.1	16.7
40°-50°	6002.1	22.6
50°-60°	6893.6	25.9
60°-70°	3142.3	11.8
70°-80°	774.7	2.9
80°-90°	140.8	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°	26605.0	100.0
0°-180°	26605.0	100.0

Coefficient of Utilization



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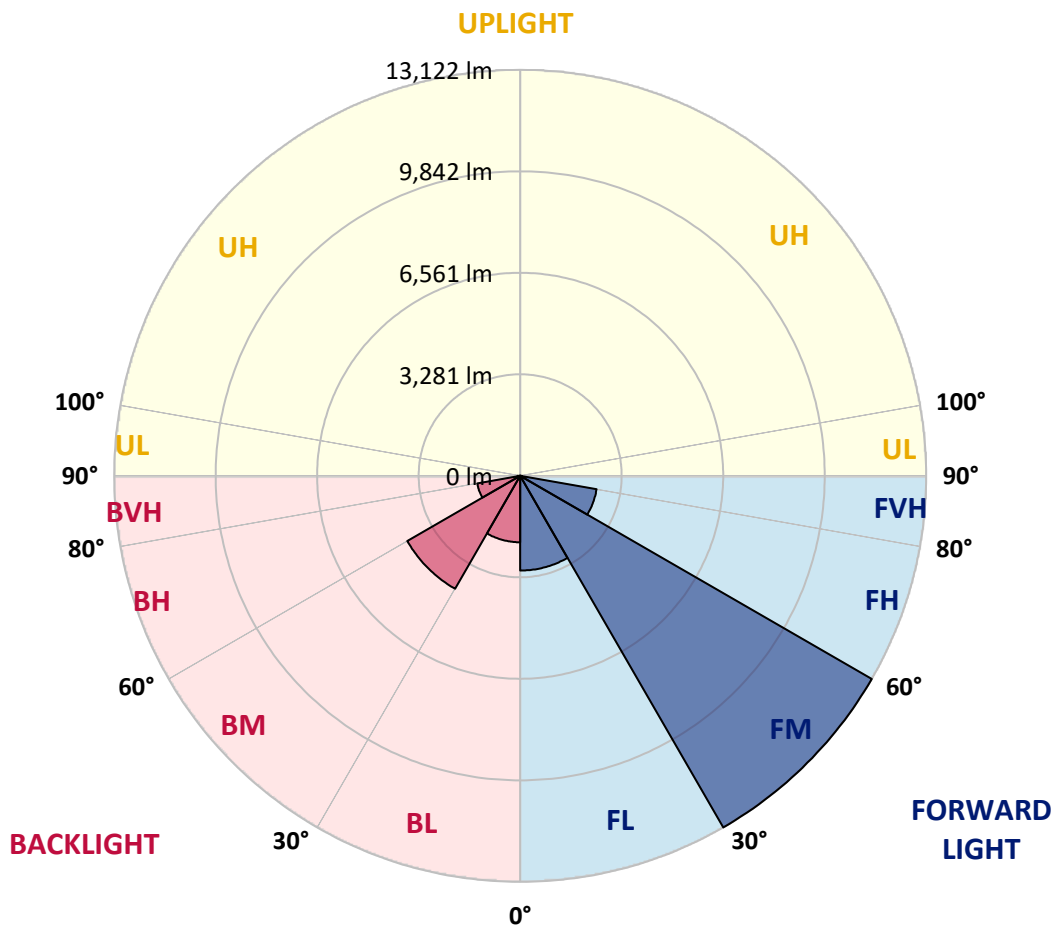
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3061.1	11.5			
FM (30°-60°)	13122.4	49.3			
FH (60°-80°)	2508.2	9.4			G2/5000
FVH (80°-90°)	56.2	0.2			G1/100
BL (0°-30°)	2149.2	8.1	B3/2500		
BM (30°-60°)	4214.4	15.8	B3/5000		
BH (60°-80°)	1408.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	84.6	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°	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2
2.5°	6475.8	6459.2	6499.0	6528.8	6565.2	6611.6	6634.8	6648.1	6764.1	6734.3	6823.7
5°	6336.6	6293.5	6323.3	6346.5	6409.5	6465.8	6528.8	6628.2	6734.3	6780.7	6890.0
7.5°	6213.9	6190.7	6184.1	6200.7	6286.9	6359.8	6469.1	6614.9	6787.3	6863.5	6926.5
10°	6011.8	5978.6	6028.4	6137.7	6160.9	6313.4	6439.3	6648.1	6797.2	6929.8	7115.4
12.5°	5922.3	5889.2	5899.1	5962.1	6124.5	6270.3	6419.4	6654.7	6969.6	7022.6	7271.1
15°	6064.8	6031.7	6041.6	6025.0	6180.8	6257.0	6492.3	6787.3	7088.9	7178.3	7443.5
17.5°	6389.6	6392.9	6349.8	6313.4	6276.9	6439.3	6601.7	6866.8	7135.3	7360.6	7559.5
20°	7009.3	6900.0	6813.8	6608.3	6552.0	6621.6	6827.1	7082.2	7324.2	7509.8	7735.1
22.5°	7486.6	7496.5	7373.9	7035.8	6913.2	6943.0	7118.7	7327.5	7592.6	7725.2	7983.7
25°	8179.2	8109.6	7977.0	7708.6	7433.5	7456.7	7586.0	7774.9	7847.8	7940.6	8222.3
27.5°	8812.2	8832.1	8570.3	8318.4	7977.0	7910.8	8142.7	8175.9	8053.3	8228.9	8325.0
30°	9455.1	9438.6	9266.2	8971.3	8636.6	8649.8	8752.5	8590.2	8421.1	8517.2	8583.5
32.5°	10121.3	9932.4	9925.7	9660.6	9405.4	9282.8	9156.9	9236.4	8974.6	8994.5	8931.5
35°	10654.8	10681.4	10528.9	10340.0	10214.1	9998.6	9654.0	9796.5	9746.8	9723.6	9451.8
37.5°	11042.6	10939.9	11016.1	10953.1	10833.8	10565.4	10207.4	10343.3	10366.5	10479.2	10164.4
40°	11360.7	11317.7	11519.8	11553.0	11470.1	10890.1	10247.2	10651.5	10999.5	11244.7	10870.3
42.5°	11513.2	11606.0	11818.1	12073.3	11887.7	11267.9	10452.7	10886.8	11662.3	12050.1	11539.7
45°	11718.7	11599.4	11914.2	12381.5	12384.8	11586.1	10651.5	11205.0	12179.3	12742.7	11997.1
47.5°	11509.9	11569.5	11894.3	12487.5	12640.0	11920.8	11188.4	11655.7	12749.4	13249.8	12421.3
50°	11042.6	11161.9	11755.1	12371.5	12832.2	12275.4	11804.8	12142.9	13276.3	13657.4	12490.9
52.5°	10555.4	10621.7	11549.6	12461.0	12918.4	12732.8	12630.0	12815.6	13919.2	14118.1	12577.0
55°	9229.8	9544.6	10870.3	12421.3	13339.3	13558.0	13478.5	13750.2	14648.3	14847.2	13047.6
56°	8616.7	8782.4	10462.6	12235.7	13422.1	13859.6	13819.8	13942.4	15036.1	15244.9	13120.5
57.5°	7483.2	7496.5	8921.6	11413.8	13110.6	13949.1	13909.3	14005.4	14959.9	14817.4	12480.9
60°	4682.8	4888.3	6071.4	8779.1	11148.6	12941.6	13166.9	12394.7	12613.5	12311.9	9710.3
62.5°	2425.9	2396.1	3181.5	5133.5	7400.4	9266.2	9475.0	9438.6	9100.5	8659.7	6343.2
65°	1209.6	1216.3	1663.7	2541.9	3791.3	4851.8	5435.1	5498.1	4600.0	4232.1	3009.2
67.5°	878.2	911.4	1196.4	1554.3	1786.3	1998.4	2449.1	2402.7	1819.4	1730.0	1604.0
70°	682.7	712.5	971.0	1186.4	1077.1	1077.1	1173.2	1213.0	1295.8	1332.3	1375.4
72.5°	497.1	520.3	742.4	818.6	705.9	758.9	878.2	971.0	1057.2	1070.5	1120.2
75°	341.4	361.2	487.2	450.7	424.2	523.6	642.9	729.1	792.1	825.2	855.0
77.5°	222.0	228.7	278.4	235.3	271.8	338.0	417.6	490.5	553.5	580.0	586.6
80°	99.4	109.4	119.3	149.1	188.9	241.9	298.3	357.9	397.7	407.6	427.5
82.5°	56.3	56.3	72.9	106.1	139.2	175.6	215.4	258.5	304.9	314.8	311.5
85°	29.8	29.8	43.1	63.0	86.2	102.7	99.4	102.7	109.4	125.9	122.6
87.5°	9.9	9.9	13.3	13.3	16.6	19.9	16.6	23.2	29.8	29.8	29.8
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°	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2	6807.2
2.5°	6797.2	6827.1	6787.3	6873.4	6873.4	6856.9	6774.0	6800.5	6820.4	6820.4	6837.0
5°	6926.5	6916.5	6943.0	6840.3	6777.3	6754.1	6618.3	6552.0	6495.6	6492.3	6442.6
7.5°	6999.4	6972.9	6962.9	6886.7	6608.3	6439.3	6147.7	5978.6	5942.2	5812.9	5862.6
10°	7115.4	7165.1	7115.4	6701.1	6313.4	5925.6	5640.6	5378.8	5276.1	5193.2	5143.5
12.5°	7354.0	7330.8	7042.5	6482.4	5938.9	5478.2	5054.0	4778.9	4676.2	4603.3	4596.7
15°	7556.2	7440.2	6999.4	6137.7	5355.6	4865.1	4517.1	4321.6	4275.2	4281.8	4311.6
17.5°	7625.7	7546.2	6774.0	5779.8	4921.4	4344.8	4182.4	4152.6	4195.7	4245.4	4258.6
20°	7735.1	7609.2	6681.2	5292.6	4384.6	4020.0	4010.1	4116.1	4195.7	4268.6	4278.5
22.5°	7963.8	7645.6	6379.6	4832.0	4016.7	3923.9	4020.0	4109.5	4232.1	4291.8	4238.7
25°	8030.1	7566.1	5955.4	4278.5	3784.7	3864.2	3967.0	4089.6	4175.8	4208.9	4232.1
27.5°	8086.4	7443.5	5382.1	3910.6	3711.8	3860.9	3967.0	4069.7	4116.1	4145.9	4172.5
30°	8245.5	7407.0	4885.0	3665.4	3665.4	3794.6	3930.5	3957.0	4020.0	4056.5	4102.9
32.5°	8325.0	7155.1	4374.6	3509.6	3619.0	3827.8	3837.7	3887.4	3890.8	3920.6	3870.9
35°	8533.8	6976.2	3900.7	3397.0	3638.9	3794.6	3844.4	3814.5	3652.1	3572.6	3589.2
37.5°	8686.3	6886.7	3559.3	3383.7	3642.2	3831.1	3857.6	3632.3	3463.2	3330.7	3363.8
40°	9097.2	6664.7	3300.8	3360.5	3672.0	3870.9	3798.0	3552.7	3247.8	3111.9	3088.7
42.5°	9412.1	6505.6	3138.5	3334.0	3695.2	3927.2	3768.1	3393.6	3082.1	2956.2	2989.3
45°	9776.6	6469.1	3052.3	3340.6	3735.0	3957.0	3731.7	3271.0	2939.6	2889.9	2880.0
47.5°	9905.9	6207.3	2959.5	3284.3	3725.1	3947.1	3609.1	3178.2	2886.6	2893.2	2919.7
50°	9690.4	5938.9	2889.9	3168.3	3658.8	3857.6	3416.8	3055.6	2856.8	2939.6	2986.0
52.5°	9415.4	5663.8	2747.4	3012.5	3522.9	3718.4	3327.4	3049.0	2826.9	2800.4	2810.4
55°	9498.2	5438.4	2548.5	2800.4	3304.2	3459.9	3227.9	2986.0	2754.0	2654.6	2687.7
56°	9229.8	5206.5	2419.3	2667.9	3155.0	3294.2	3178.2	2929.7	2694.4	2628.1	2628.1
57.5°	8470.8	4427.6	2250.3	2455.7	2840.2	3005.9	3082.1	2896.5	2628.1	2512.1	2515.4
60°	6247.1	3148.4	2018.3	2164.1	2353.0	2485.6	2840.2	2803.7	2462.4	2382.8	2353.0
62.5°	3851.0	2300.0	1852.6	1908.9	2005.0	2114.4	2478.9	2538.6	2286.7	2200.6	2180.7
65°	2157.5	1759.8	1726.6	1749.8	1796.2	1852.6	2058.1	2190.6	2018.3	1885.7	1879.1
67.5°	1577.5	1574.2	1600.7	1620.6	1640.5	1640.5	1690.2	1743.2	1720.0	1614.0	1604.0
70°	1401.9	1411.8	1431.7	1435.0	1441.6	1418.4	1378.7	1362.1	1388.6	1322.3	1309.1
72.5°	1156.6	1189.8	1213.0	1216.3	1179.8	1150.0	1097.0	1040.6	1020.7	1007.5	1004.2
75°	888.2	911.4	921.3	918.0	904.7	861.7	798.7	742.4	705.9	666.1	686.0
77.5°	599.9	633.0	649.6	649.6	629.7	563.4	533.6	490.5	454.0	410.9	417.6
80°	420.9	444.1	470.6	467.3	434.1	401.0	357.9	318.2	288.3	255.2	251.9
82.5°	314.8	328.1	341.4	334.7	311.5	278.4	248.6	212.1	179.0	155.8	155.8
85°	112.7	122.6	149.1	155.8	169.0	169.0	142.5	119.3	96.1	79.5	79.5
87.5°	33.1	33.1	36.5	36.5	33.1	36.5	29.8	33.1	36.5	23.2	23.2
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)