

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: P532534

Luminaire Tested: **GALN-SA7D-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532534
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-SA7D-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA 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: 33770 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

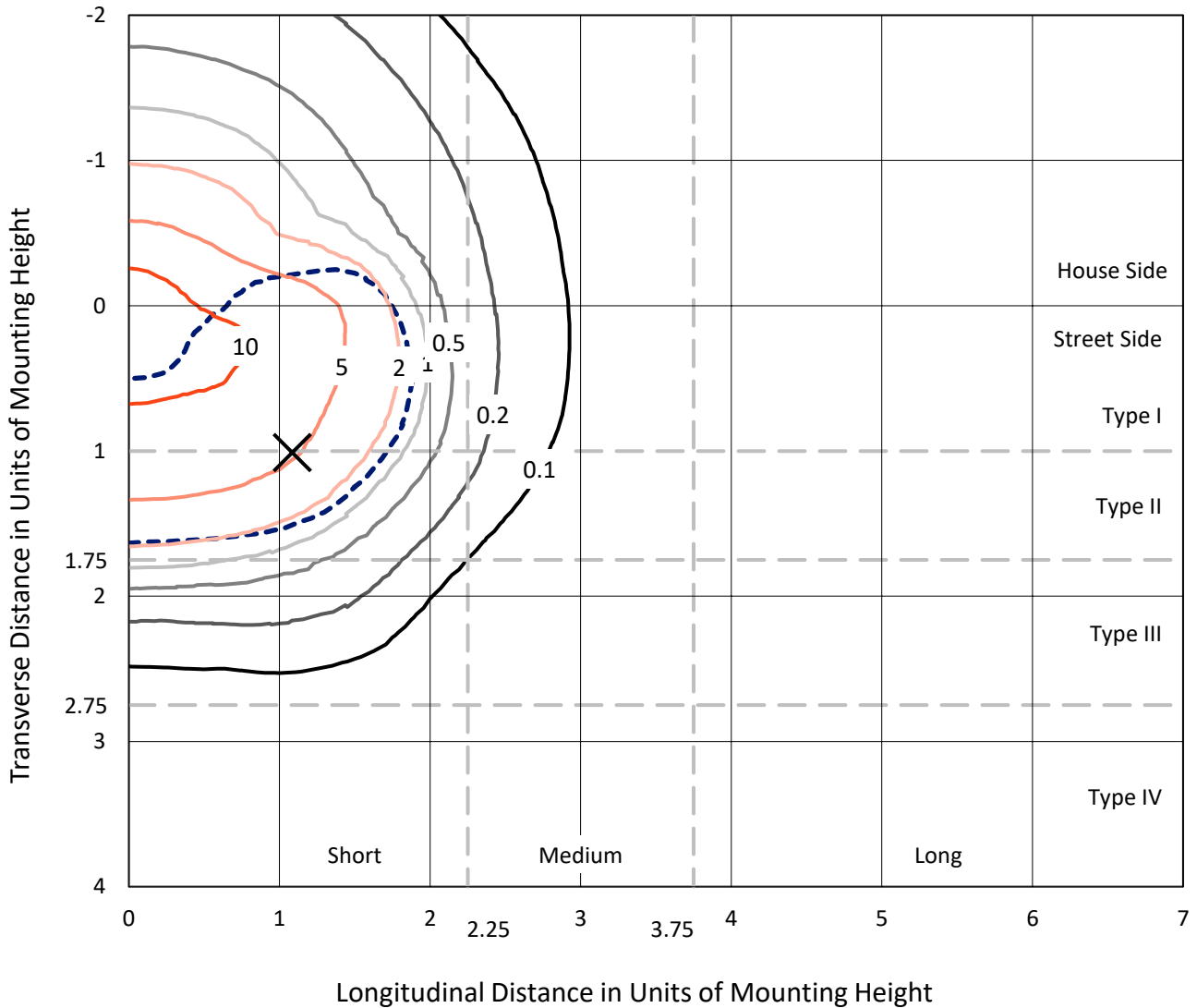
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

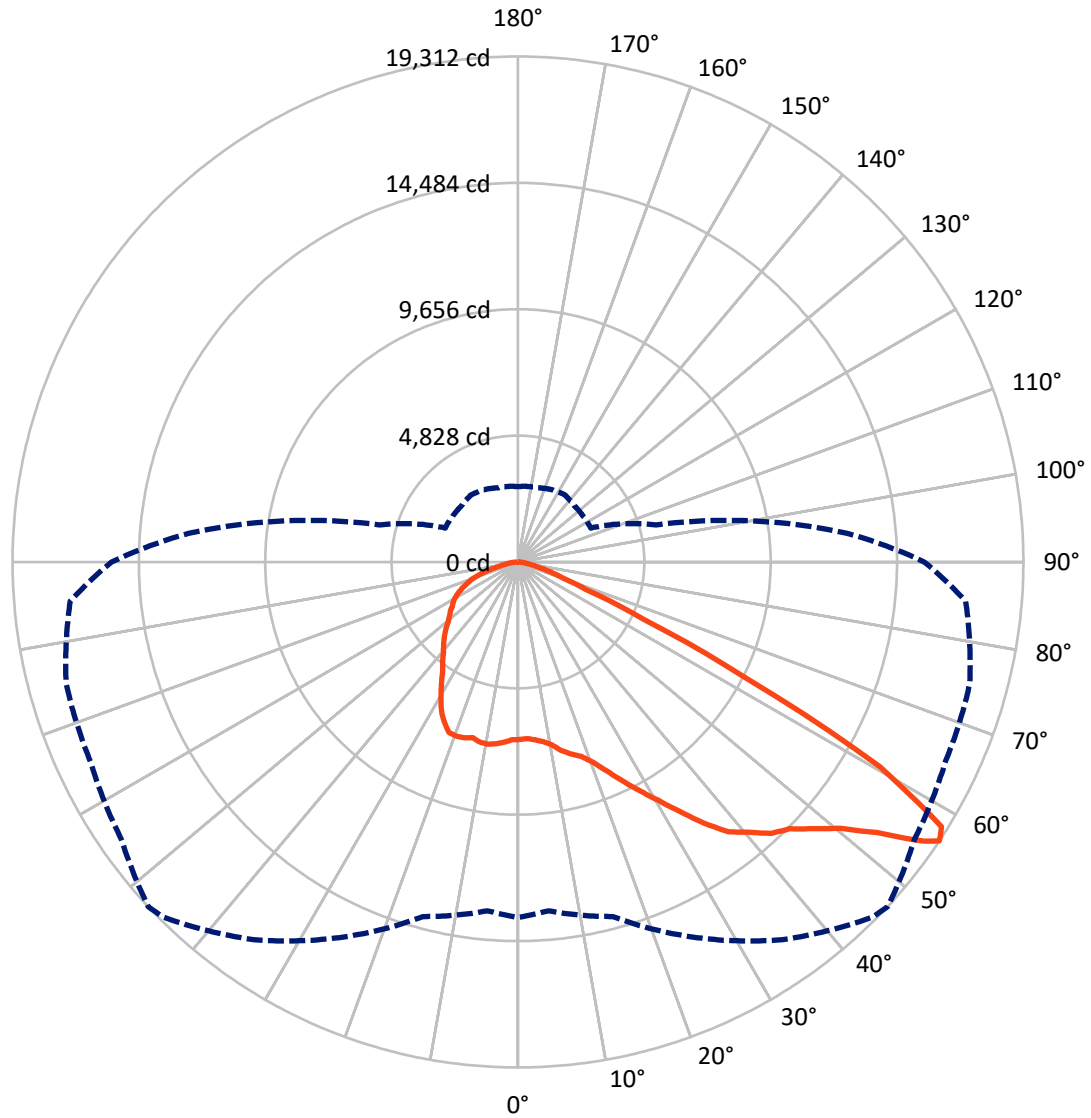
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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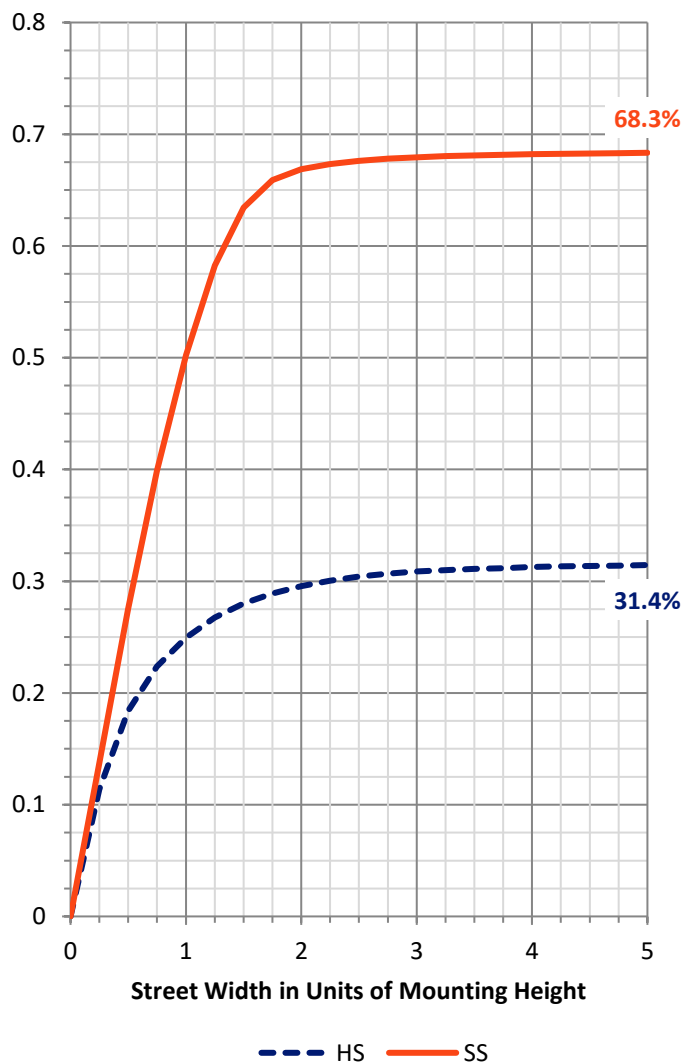
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10701.3	0.0	10701.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	23068.7	0.0	23068.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	33770.0	0.0	33770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.0	2.0
10°-20°	2085.0	6.2
20°-30°	3685.7	10.9
30°-40°	5535.8	16.4
40°-50°	7597.4	22.5
50°-60°	9051.2	26.8
60°-70°	3873.4	11.5
70°-80°	1096.2	3.2
80°-90°	184.5	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°	33770.0	100.0
0°-180°	33770.0	100.0

Coefficient of Utilization



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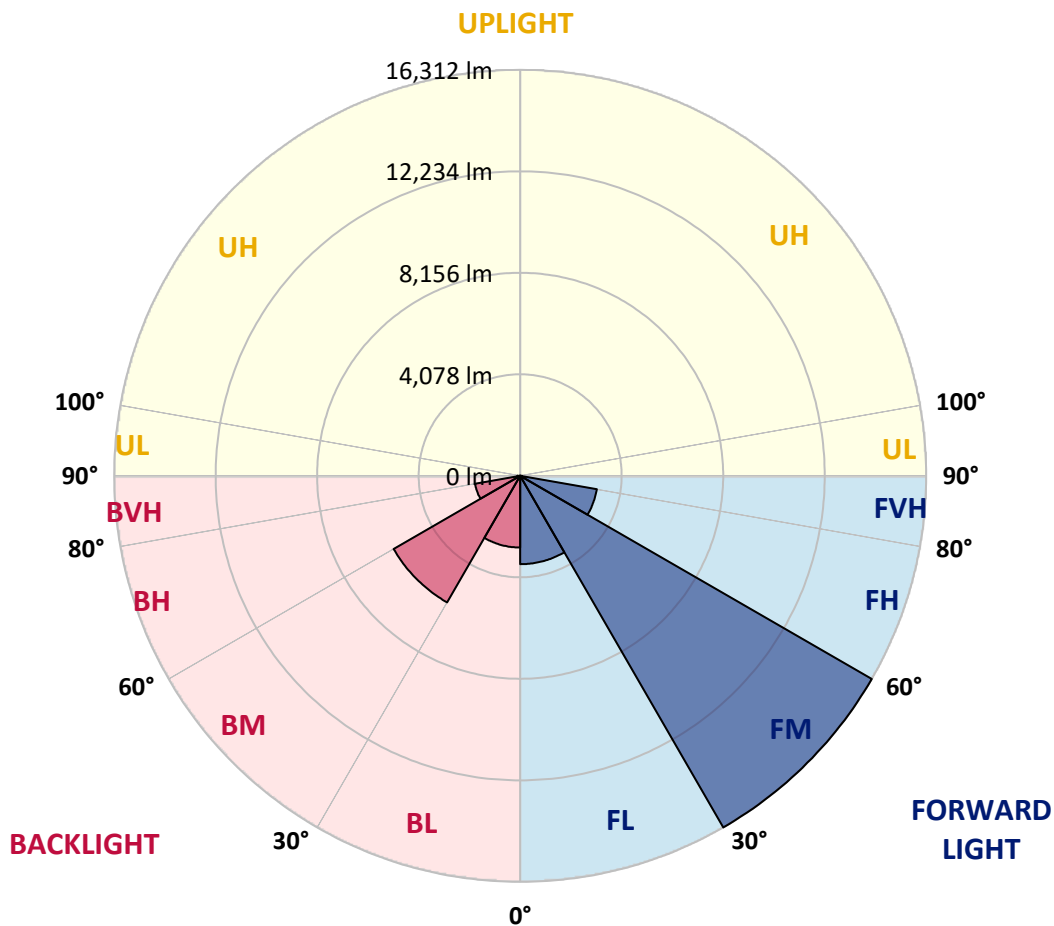
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3550.4	10.5			
FM (30°-60°)	16311.7	48.3			
FH (60°-80°)	3128.3	9.3			G2/5000
FVH (80°-90°)	78.3	0.2			G1/100
BL (0°-30°)	2881.2	8.5	B4/5000		
BM (30°-60°)	5872.7	17.4	B4/8500		
BH (60°-80°)	1841.2	5.5	B3/2500		G3/2500
BVH (80°-90°)	106.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4
2.5°	6757.5	6744.6	6736.0	6804.9	6779.1	6783.4	6757.5	6783.4	6800.6	6761.8	6817.8
5°	6744.6	6783.4	6748.9	6770.4	6826.4	6809.2	6826.4	6878.1	6865.2	6852.3	6835.0
7.5°	6865.2	6869.5	6895.3	6904.0	6921.2	6904.0	6929.8	6977.2	6964.3	6891.0	6899.7
10°	7037.5	7046.1	7050.4	7097.8	7127.9	7132.2	7102.1	7059.0	7054.7	7153.8	7084.8
12.5°	7235.6	7214.1	7265.7	7283.0	7317.4	7356.2	7394.9	7304.5	7360.5	7364.8	7283.0
15°	7524.2	7545.7	7485.4	7485.4	7498.3	7502.6	7610.3	7567.2	7558.6	7511.2	7545.7
17.5°	7954.8	7808.4	7804.1	7743.8	7735.2	7769.6	7808.4	7842.9	7959.2	7864.4	7679.2
20°	8269.2	8303.7	8178.8	8105.6	8118.5	8196.0	8157.3	8312.3	8394.1	8239.1	8058.2
22.5°	8824.8	8708.6	8738.7	8575.0	8588.0	8669.8	8665.5	8824.8	8872.2	8626.7	8364.0
25°	9199.5	9169.4	9195.2	9066.0	9083.3	9147.9	9251.2	9513.9	9436.4	9165.1	8557.8
27.5°	9746.5	9686.2	9664.7	9617.3	9600.1	9772.4	9892.9	10172.9	10116.9	9720.7	8902.4
30°	10306.4	10267.6	10289.2	10095.4	10164.3	10530.4	10564.8	10948.1	10922.3	10224.6	9285.7
32.5°	10694.0	10715.6	10754.3	10646.7	10952.4	11245.3	11361.6	11796.6	11818.1	11090.3	10026.5
35°	11318.5	11245.3	11266.8	11391.7	11533.9	12067.9	12257.4	12546.0	12726.9	11999.0	10737.1
37.5°	11710.5	11788.0	11697.5	11895.7	12266.1	12907.8	13080.1	13377.2	13566.7	12894.9	11706.2
40°	12322.0	12197.1	12261.7	12403.9	12782.9	13618.4	13571.0	13876.8	13937.1	13657.2	12610.6
42.5°	12981.0	12920.7	12830.3	13153.3	13472.0	14079.3	14174.0	14031.9	14337.7	14402.3	13902.7
45°	13769.2	13842.4	13855.3	13863.9	14143.9	14673.6	14544.4	14419.5	14772.7	15242.1	14703.8
47.5°	14501.3	14268.8	14436.7	14669.3	15065.5	15069.8	15220.6	14923.4	15298.1	15715.9	15427.3
50°	14746.8	14634.8	14858.8	15298.1	15909.7	15974.3	15991.5	15569.4	15763.3	16094.9	15677.1
52.5°	14652.1	14613.3	15186.1	15866.6	16762.5	17089.8	17175.9	16654.8	16762.5	16611.7	16228.4
55°	14199.8	14316.1	14893.3	16280.1	17654.0	18666.1	18829.8	18170.8	17486.0	17602.3	17180.2
56°	13579.7	13377.2	14023.3	15810.6	17615.2	19178.6	19312.1	18489.5	18024.4	17873.6	17171.6
57.5°	11521.0	11258.2	12106.7	14225.7	16637.6	18984.8	19083.9	18623.0	17933.9	17628.1	15918.3
60°	6744.6	6873.8	7950.5	9811.1	12834.6	15565.1	15896.8	16232.7	15771.9	14402.3	11848.3
62.5°	3256.0	3174.2	3945.1	5624.8	7821.3	9936.0	9837.0	10780.2	11297.0	10233.2	7481.1
65°	1705.5	1696.9	2153.4	3070.8	4298.3	5220.0	5310.4	5818.6	6529.3	5271.6	3798.7
67.5°	1253.3	1287.8	1516.0	2157.8	2765.0	2821.0	2808.1	3062.2	3131.1	2648.7	2334.3
70°	982.0	999.2	1167.2	1640.9	2058.7	1843.4	1804.6	1834.7	2037.2	2123.3	2019.9
72.5°	710.6	727.9	870.0	1106.9	1287.8	1257.6	1283.5	1451.4	1701.2	1791.7	1684.0
75°	473.8	486.7	564.2	676.2	762.3	822.6	870.0	1063.8	1296.4	1348.1	1296.4
77.5°	327.3	340.2	391.9	478.1	486.7	525.4	542.7	633.1	775.2	839.8	805.4
80°	185.2	185.2	211.0	245.5	301.5	353.2	361.8	435.0	499.6	542.7	551.3
82.5°	86.1	90.4	112.0	150.7	198.1	245.5	254.1	301.5	348.9	391.9	404.8
85°	43.1	47.4	64.6	90.4	120.6	146.4	142.1	146.4	155.0	146.4	150.7
87.5°	12.9	12.9	17.2	21.5	17.2	21.5	21.5	25.8	30.1	34.5	38.8
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°	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4	6783.4
2.5°	6822.1	6835.0	6748.9	6830.7	6800.6	6796.3	6856.6	6848.0	6869.5	6860.9	6809.2
5°	6826.4	6796.3	6886.7	6804.9	6843.7	6925.5	6869.5	6998.7	6934.1	6977.2	6882.4
7.5°	6959.9	6968.6	6951.3	6985.8	6968.6	7007.3	6977.2	7007.3	6955.6	6959.9	7046.1
10°	7076.2	7050.4	7080.5	7037.5	7067.6	7054.7	6985.8	6964.3	6981.5	6959.9	7015.9
12.5°	7291.6	7244.2	7222.7	7171.0	7136.5	7007.3	6899.7	6839.4	6921.2	6934.1	6908.3
15°	7511.2	7515.5	7416.5	7300.2	7084.8	6891.0	6916.9	6938.4	6938.4	6972.9	6908.3
17.5°	7649.1	7649.1	7558.6	7326.0	7106.4	6994.4	6968.6	6899.7	6839.4	6830.7	6826.4
20°	7890.2	7817.0	7610.3	7321.7	7097.8	7046.1	6852.3	6688.6	6563.7	6520.6	6516.3
22.5°	8165.9	7980.7	7692.1	7330.3	7084.8	7011.6	6649.9	6404.4	6180.4	6085.6	6098.6
25°	8420.0	8122.8	7739.5	7291.6	7037.5	6684.3	6279.5	5939.2	5706.6	5629.1	5590.4
27.5°	8596.6	8273.6	7739.5	7326.0	6860.9	6318.2	5904.8	5469.8	5267.3	5215.7	5224.3
30°	8833.5	8463.1	7873.0	7252.8	6507.7	5844.5	5349.2	5064.9	4944.3	4901.3	4931.4
32.5°	9389.0	8958.4	8058.2	7076.2	6090.0	5370.7	4970.2	4810.8	4634.2	4548.1	4517.9
35°	9992.0	9427.8	8239.1	6779.1	5620.5	4940.0	4690.2	4543.8	4332.7	4238.0	4255.2
37.5°	10844.8	10030.8	8252.0	6288.1	5112.3	4698.8	4470.6	4242.3	4070.0	3923.6	3880.5
40°	11994.7	10853.4	8221.9	5771.2	4703.1	4414.6	4246.6	3962.3	3768.5	3665.2	3686.7
42.5°	13006.8	11818.1	8097.0	5185.5	4332.7	4220.8	4031.3	3751.3	3561.8	3454.1	3445.5
45°	13859.6	12528.8	7860.1	4685.9	4022.6	4005.4	3785.8	3570.4	3419.7	3320.6	3363.7
47.5°	14647.8	13101.6	7502.6	4186.3	3738.4	3772.8	3561.8	3428.3	3333.5	3243.1	3238.8
50°	14932.0	13093.0	7188.2	3772.8	3510.1	3492.9	3484.3	3342.2	3243.1	3165.6	3200.0
52.5°	15405.8	13239.4	6848.0	3488.6	3303.4	3307.7	3337.8	3234.5	3122.5	3075.1	3118.2
55°	16086.3	13260.9	6098.6	3157.0	3131.1	3161.3	3161.3	3092.4	2997.6	2958.8	2937.3
56°	15530.7	12619.2	5469.8	3070.8	3045.0	3045.0	3126.8	3049.3	2933.0	2902.9	2877.0
57.5°	14324.7	11055.8	4578.2	2967.5	2928.7	2989.0	3032.1	2950.2	2842.6	2799.5	2825.3
60°	9880.0	7481.1	3441.2	2743.5	2743.5	2842.6	2877.0	2756.4	2709.0	2704.7	2670.3
62.5°	5766.9	4358.6	2691.8	2541.1	2549.7	2631.5	2657.4	2588.4	2528.2	2601.4	2635.8
65°	3057.9	2601.4	2308.5	2325.7	2330.0	2394.6	2506.6	2502.3	2498.0	2519.5	2523.8
67.5°	2213.7	2162.1	2097.5	2080.2	2088.8	2136.2	2248.2	2334.3	2330.0	2278.3	2239.6
70°	1972.6	1899.3	1860.6	1864.9	1830.4	1886.4	1976.9	2032.9	1933.8	1873.5	1847.7
72.5°	1640.9	1619.4	1593.6	1597.9	1528.9	1516.0	1412.7	1412.7	1386.8	1369.6	1399.7
75°	1253.3	1244.7	1257.6	1236.1	1162.9	1085.3	1025.0	969.1	882.9	848.5	831.2
77.5°	792.5	818.3	848.5	801.1	770.9	714.9	654.6	598.7	529.7	491.0	491.0
80°	538.4	559.9	581.4	572.8	538.4	486.7	439.3	379.0	331.6	301.5	297.2
82.5°	409.2	426.4	456.5	422.1	387.6	344.6	305.8	262.7	219.7	185.2	185.2
85°	146.4	168.0	185.2	202.4	215.3	219.7	189.5	155.0	124.9	99.1	94.8
87.5°	38.8	43.1	47.4	43.1	43.1	43.1	47.4	43.1	38.8	30.1	30.1
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)