

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: P531951

Luminaire Tested: **GALN-SA7B-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21591 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

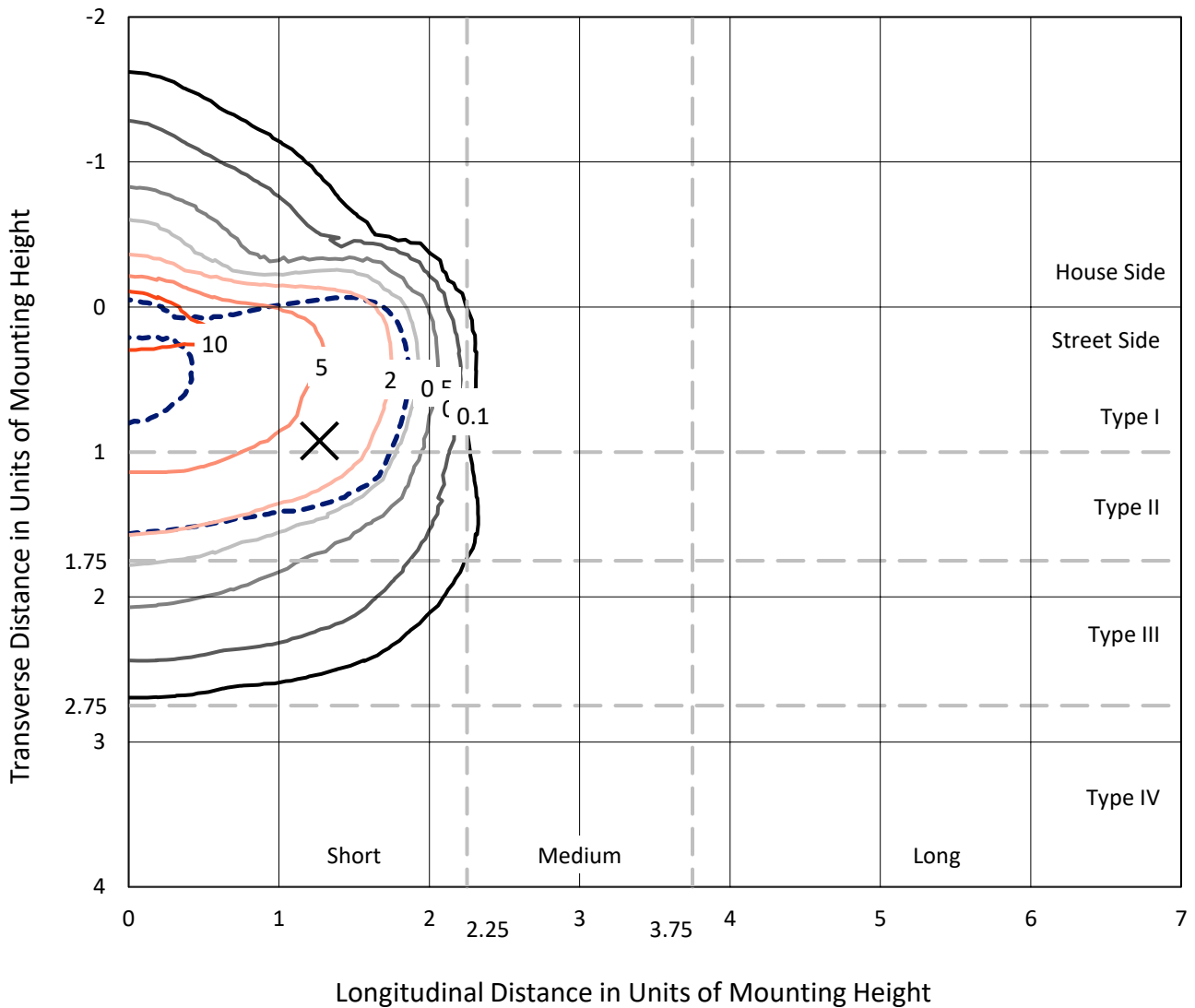
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531951
 CATALOG NUMBER: GALN-SA7B-735-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

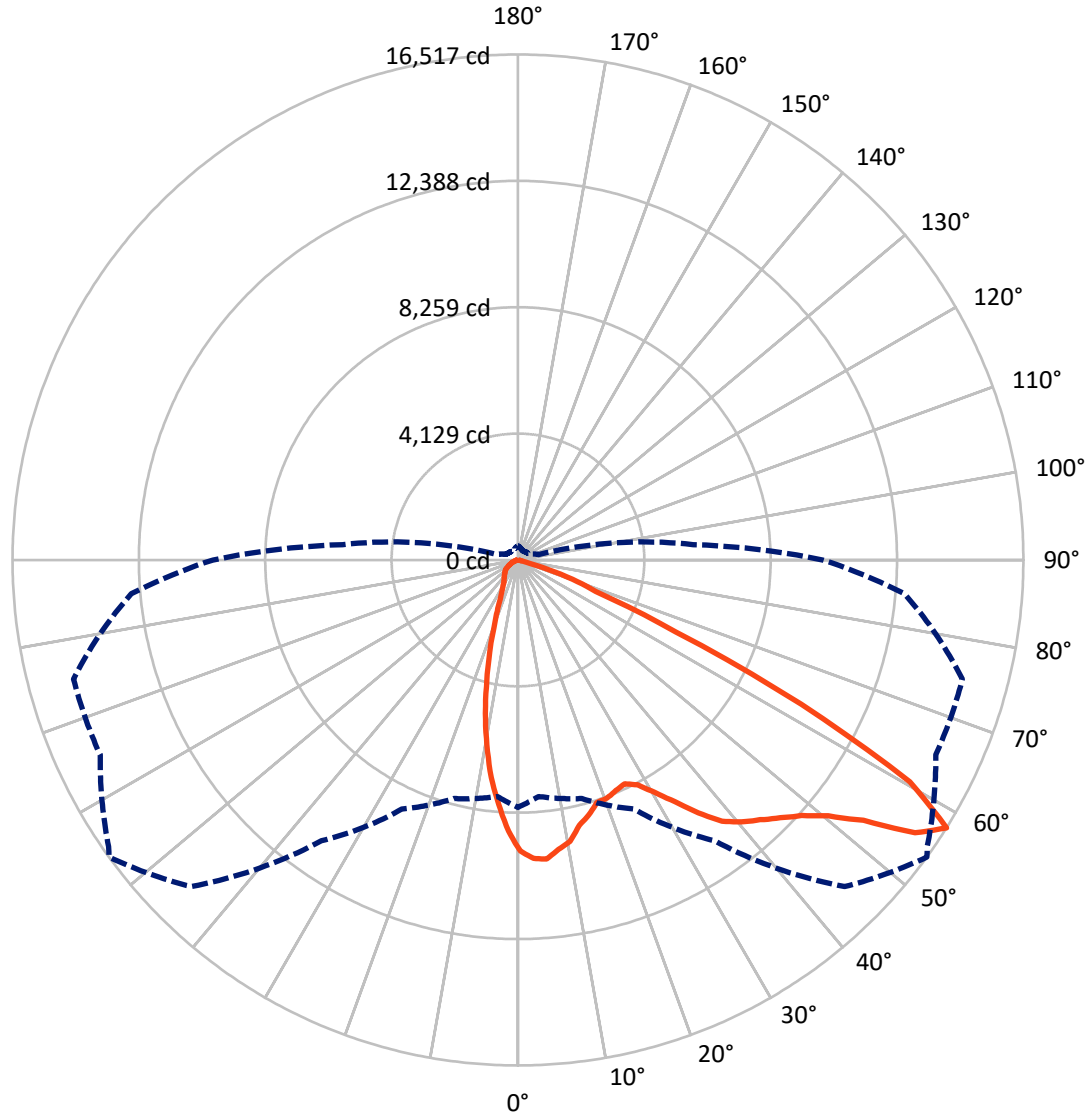
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

REPORT NUMBER: P531951
CATALOG NUMBER: GALN-SA7B-735-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P531951
 CATALOG NUMBER: GALN-SA7B-735-U-SL3-GRSBK

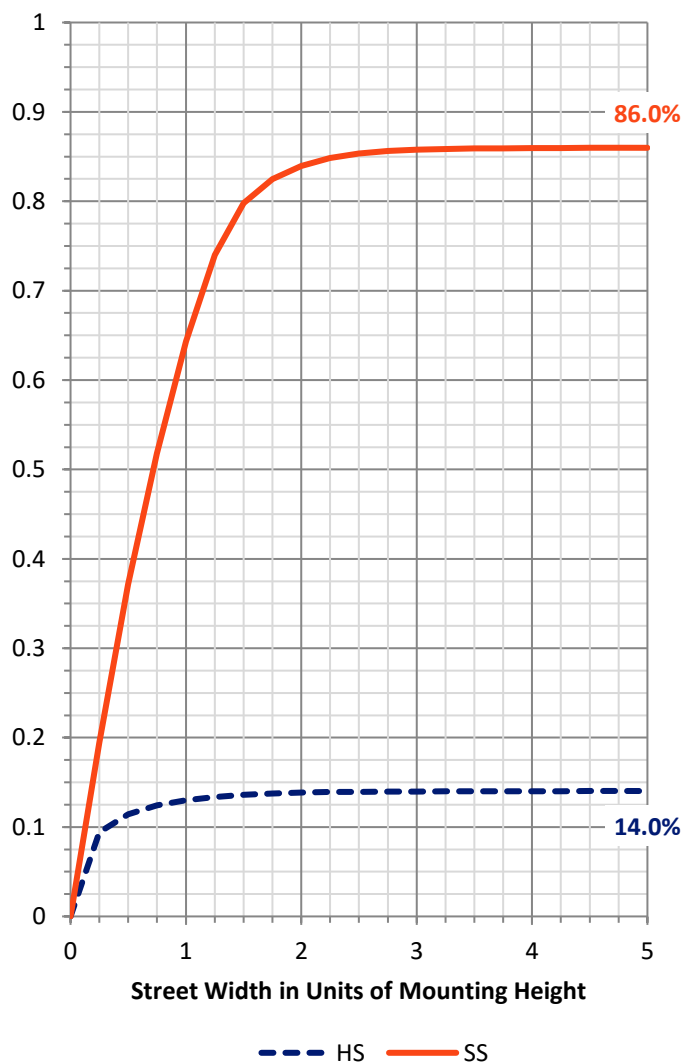
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3051.2	0.0	3051.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	18539.8	0.0	18539.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	21591.0	0.0	21591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.9	3.7
10°-20°	1699.3	7.9
20°-30°	2251.8	10.4
30°-40°	3272.6	15.2
40°-50°	4852.8	22.5
50°-60°	6068.2	28.1
60°-70°	2393.6	11.1
70°-80°	238.3	1.1
80°-90°	18.5	0.1
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°	21591.0	100.0
0°-180°	21591.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531951

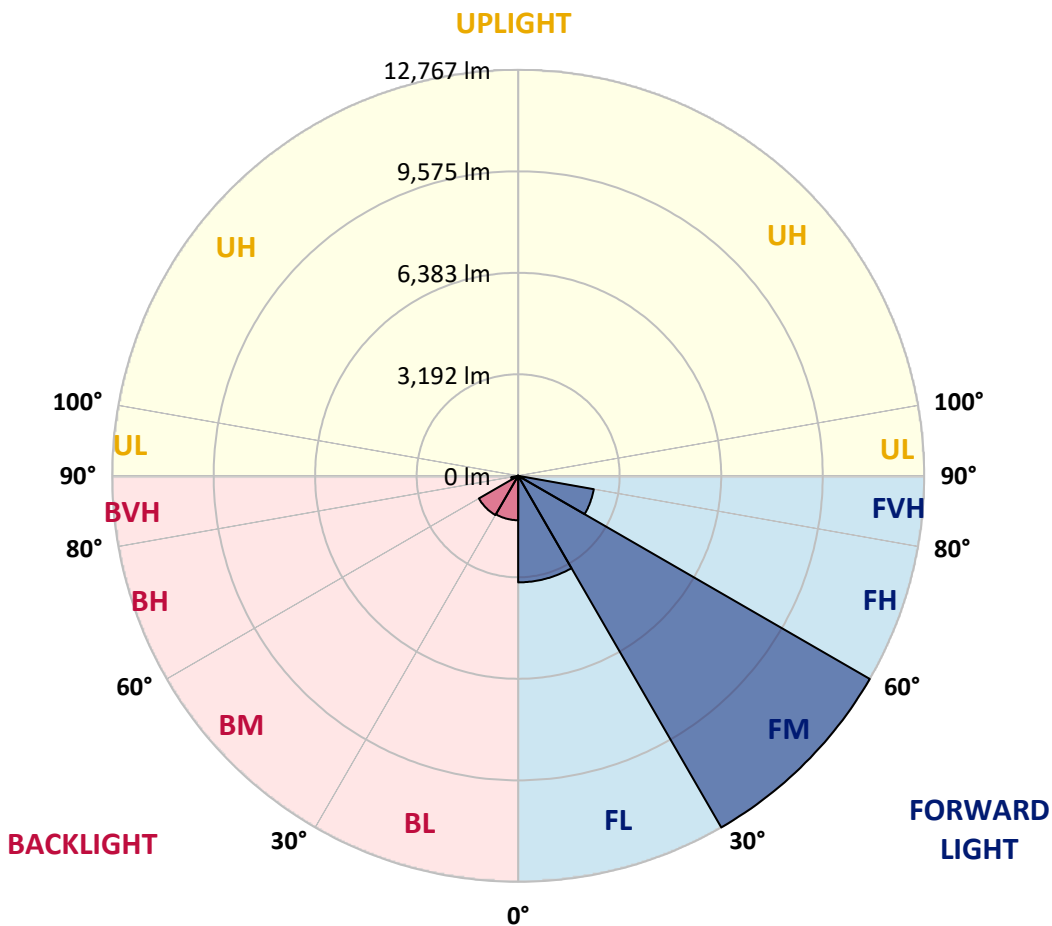
CATALOG NUMBER: GALN-SA7B-735-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3351.6	15.5			
FM (30°-60°)	12766.7	59.1			
FH (60°-80°)	2413.2	11.2			G2/5000
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	1395.5	6.5	B3/2500		
BM (30°-60°)	1426.8	6.6	B2/2500		
BH (60°-80°)	218.8	1.0	B1/500		G1/500
BVH (80°-90°)	10.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P531951

CATALOG NUMBER: GALN-SA7B-735-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1
2.5°	10065.2	9960.8	9968.8	9932.7	9884.5	9920.6	9764.1	9800.2	9796.2	9583.4	9442.9
5°	9812.2	9924.7	9808.2	9904.6	9812.2	9912.6	9816.3	9744.0	9627.6	9471.0	9210.0
7.5°	9382.7	9274.3	9306.4	9426.8	9446.9	9671.7	9551.3	9643.6	9595.4	9286.3	8929.0
10°	8519.5	8495.4	8656.0	8816.6	9013.3	9254.2	9346.5	9294.3	9258.2	9141.8	8664.0
12.5°	7857.0	7925.3	7921.3	8186.2	8519.5	8656.0	8896.9	8888.8	9089.6	8872.8	8415.1
15°	7226.7	7262.8	7431.4	7596.1	7965.4	8354.9	8652.0	8692.1	8933.0	8780.4	8222.4
17.5°	6841.3	6789.1	6921.6	7118.3	7495.7	8005.6	8334.8	8431.1	8760.4	8728.2	8001.6
20°	6459.9	6459.9	6568.3	6801.1	7146.4	7720.5	8306.7	8278.6	8760.4	8668.0	7764.7
22.5°	6331.4	6395.6	6423.7	6600.4	7009.9	7503.7	8186.2	8238.4	8828.6	8639.9	7660.3
25°	6508.0	6423.7	6431.8	6572.3	6957.7	7399.3	8097.9	8214.3	8953.1	8780.4	7576.0
27.5°	6536.1	6620.5	6644.5	6740.9	6997.8	7431.4	8318.7	8555.6	9262.2	9109.6	7600.1
30°	6781.0	6865.4	6861.3	7025.9	7202.6	7692.4	8812.5	8860.7	9900.6	9523.2	7748.6
32.5°	7078.1	7166.5	7194.6	7387.3	7527.8	8170.2	9414.8	9539.2	10514.8	10173.6	8138.1
35°	7447.5	7415.4	7543.9	7736.6	8037.7	8868.8	10149.5	10358.3	11177.3	11016.7	8539.5
37.5°	7909.2	7869.1	7993.5	8306.7	8716.2	9695.8	10828.0	10964.5	11659.1	11799.6	9282.3
40°	8234.4	8250.5	8627.9	9049.4	9483.0	10482.7	11257.6	11390.1	11996.3	12530.3	9844.4
42.5°	8776.4	8876.8	9330.5	9844.4	10298.0	11072.9	11606.9	11735.3	12152.9	13116.4	10603.2
45°	9563.3	9519.2	10021.0	10595.1	11097.0	11687.2	12020.4	11976.2	12245.2	13698.6	11080.9
47.5°	10575.1	10583.1	10916.3	11406.1	11928.1	12221.1	12482.1	12325.5	12437.9	14312.9	11719.3
50°	11265.6	11325.8	11594.8	12096.7	12357.6	12807.3	13140.5	13044.2	13008.0	14682.2	12120.8
52.5°	11442.3	11622.9	11767.5	12393.8	13004.0	13714.7	14140.2	14345.0	13702.6	14806.7	12630.6
55°	10109.3	10269.9	10779.8	11639.0	13248.9	15152.0	15738.1	15742.1	14610.0	15360.7	12988.0
57.5°	8081.8	7756.6	8069.8	8981.2	11201.4	15091.7	16517.0	16328.3	15063.6	15035.5	12678.8
60°	5588.6	5508.3	5528.4	5889.8	7752.6	12004.3	14718.4	14963.3	13871.2	13032.1	10037.1
62.5°	4428.4	4360.1	4271.8	4231.6	4813.8	7479.6	10382.3	10727.6	9699.8	8451.2	5950.0
65°	3468.8	3428.7	3440.7	3601.3	3597.3	4243.7	5677.0	5536.4	4432.4	3276.1	1870.9
67.5°	2340.6	2400.9	2449.0	2934.8	3183.8	2954.9	2742.1	2661.8	1441.3	606.2	413.5
70°	1316.9	1324.9	1377.1	1834.8	2416.9	2292.5	1891.0	1891.0	718.7	220.8	236.9
72.5°	718.7	694.6	646.4	790.9	1076.0	1092.0	843.1	734.7	212.8	144.5	132.5
75°	349.3	345.3	297.1	244.9	232.9	192.7	148.5	136.5	96.4	92.3	80.3
77.5°	72.3	68.3	36.1	36.1	40.1	44.2	56.2	56.2	68.3	68.3	56.2
80°	0.0	0.0	4.0	16.1	28.1	40.1	48.2	48.2	56.2	56.2	44.2
82.5°	0.0	0.0	4.0	12.0	24.1	36.1	44.2	48.2	56.2	60.2	48.2
85°	0.0	0.0	0.0	8.0	20.1	28.1	24.1	24.1	20.1	16.1	8.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P531951

CATALOG NUMBER: GALN-SA7B-735-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1	9511.1
2.5°	9370.6	9362.6	9177.9	9073.5	8884.8	8720.2	8587.7	8491.4	8491.4	8431.1	8374.9
5°	9105.6	9037.4	8643.9	8391.0	8033.7	7768.7	7588.0	7447.5	7226.7	7286.9	7050.0
7.5°	8776.4	8603.8	8081.8	7696.4	7202.6	6825.2	6439.8	6098.5	5769.3	5620.8	5701.1
10°	8423.1	8122.0	7419.4	6809.1	6194.9	5504.3	5054.7	4508.7	4171.4	4151.3	4063.0
12.5°	8049.7	7708.5	6853.3	6010.2	5203.2	4372.1	3685.6	3175.7	2946.9	2693.9	2742.1
15°	7768.7	7262.8	6223.0	5207.2	4135.3	3296.2	2605.6	2212.2	1995.4	1935.1	1915.1
17.5°	7463.6	6921.6	5580.6	4352.1	3244.0	2372.8	1874.9	1686.2	1601.9	1601.9	1589.9
20°	7146.4	6536.1	4942.3	3557.1	2433.0	1770.5	1501.5	1441.3	1437.3	1433.3	1433.3
22.5°	6937.6	6094.5	4364.1	2826.4	1834.8	1417.2	1304.8	1280.7	1296.8	1345.0	1345.0
25°	6716.8	5668.9	3725.8	2180.1	1421.2	1216.5	1152.3	1168.3	1208.5	1252.6	1236.6
27.5°	6492.0	5391.9	3123.5	1710.3	1164.3	1063.9	1039.8	1076.0	1120.1	1160.3	1148.2
30°	6439.8	5094.8	2553.4	1296.8	999.7	927.4	943.5	975.6	1019.8	1035.8	1051.9
32.5°	6520.1	4862.0	2091.7	1063.9	871.2	851.1	851.1	867.2	895.3	931.4	919.4
35°	6748.9	4729.5	1654.1	923.4	799.0	778.9	774.9	790.9	807.0	819.0	807.0
37.5°	7098.2	4625.1	1353.0	819.0	750.8	718.7	710.6	706.6	722.7	726.7	734.7
40°	7543.9	4681.3	1148.2	754.8	702.6	666.5	642.4	642.4	642.4	654.4	658.4
42.5°	8025.6	4757.6	991.7	718.7	658.4	614.3	590.2	582.1	590.2	606.2	602.2
45°	8531.5	4906.1	891.3	662.4	618.3	562.1	530.0	521.9	542.0	574.1	570.1
47.5°	9005.3	5118.9	815.0	626.3	578.1	525.9	485.8	477.8	513.9	558.1	562.1
50°	9479.0	5488.3	786.9	598.2	550.0	489.8	453.7	445.6	485.8	542.0	554.0
52.5°	10025.0	5885.7	766.8	562.1	517.9	461.7	421.6	413.5	457.7	530.0	534.0
55°	10382.3	6223.0	750.8	497.8	457.7	417.5	385.4	381.4	429.6	493.8	509.9
57.5°	9964.8	5753.2	694.6	433.6	389.4	369.4	341.3	341.3	381.4	441.6	453.7
60°	7555.9	3786.0	493.8	349.3	329.2	317.2	305.1	305.1	337.2	381.4	385.4
62.5°	4424.3	2039.5	317.2	281.0	281.0	269.0	248.9	248.9	281.0	305.1	309.1
65°	1312.8	654.4	256.9	240.9	236.9	216.8	196.7	192.7	216.8	228.8	224.8
67.5°	377.4	301.1	212.8	200.7	196.7	164.6	152.6	148.5	152.6	144.5	140.5
70°	224.8	204.8	164.6	168.6	148.5	120.4	108.4	104.4	96.4	84.3	76.3
72.5°	124.5	124.5	120.4	128.5	104.4	80.3	68.3	56.2	44.2	36.1	32.1
75°	76.3	80.3	84.3	88.3	68.3	52.2	44.2	28.1	16.1	8.0	8.0
77.5°	52.2	56.2	60.2	64.2	56.2	48.2	36.1	20.1	4.0	0.0	0.0
80°	40.1	44.2	52.2	56.2	60.2	64.2	48.2	20.1	4.0	0.0	0.0
82.5°	44.2	48.2	60.2	56.2	56.2	56.2	44.2	20.1	4.0	0.0	0.0
85°	8.0	12.0	20.1	20.1	28.1	36.1	28.1	8.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)