

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: P648180

Luminaire Tested: **GALN-SA9A-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648180
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-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 28336.8 lumens
Efficiency: N/A
Efficacy: 103.4 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

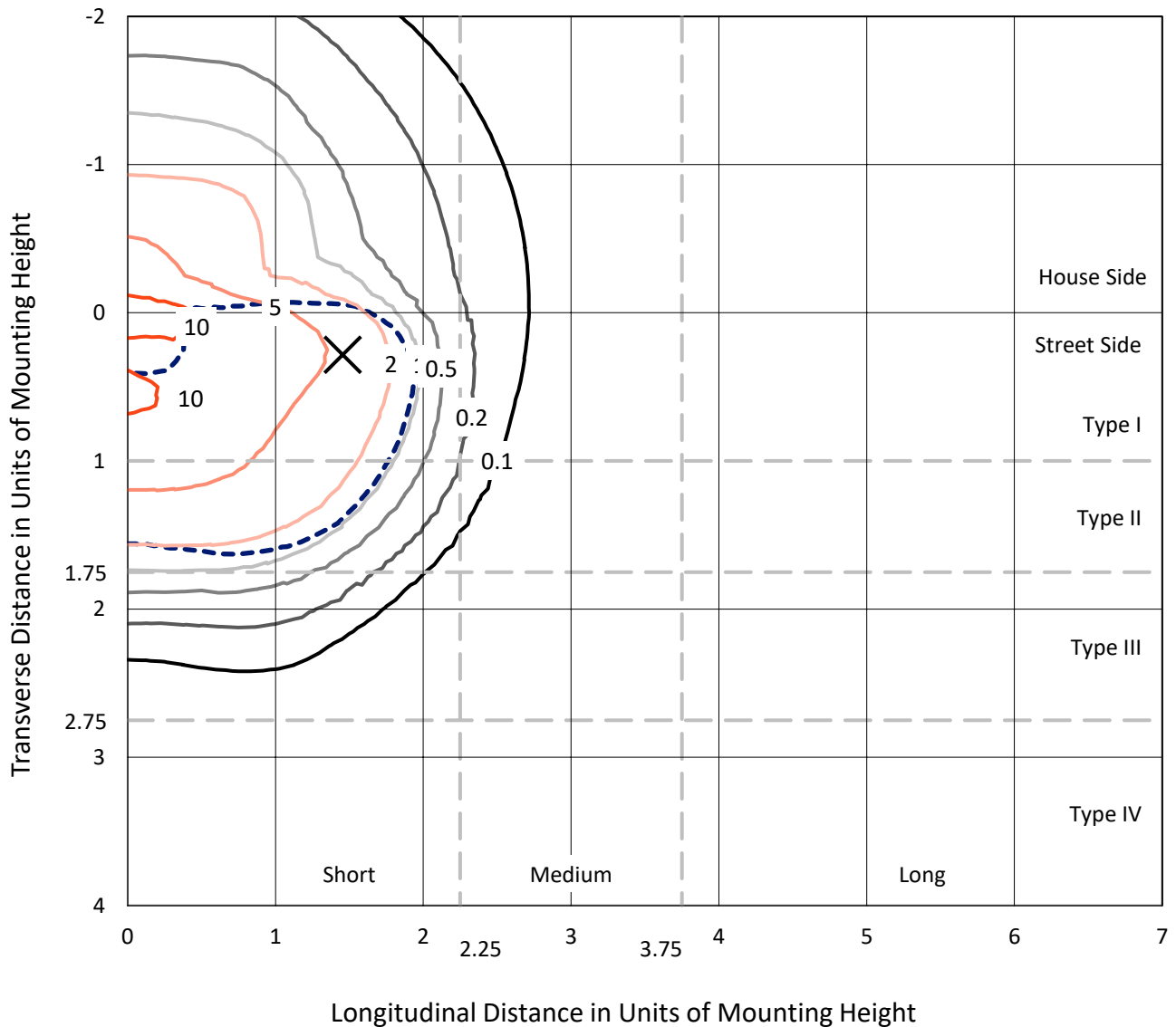
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648180
 CATALOG NUMBER: GALN-SA9A-835-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

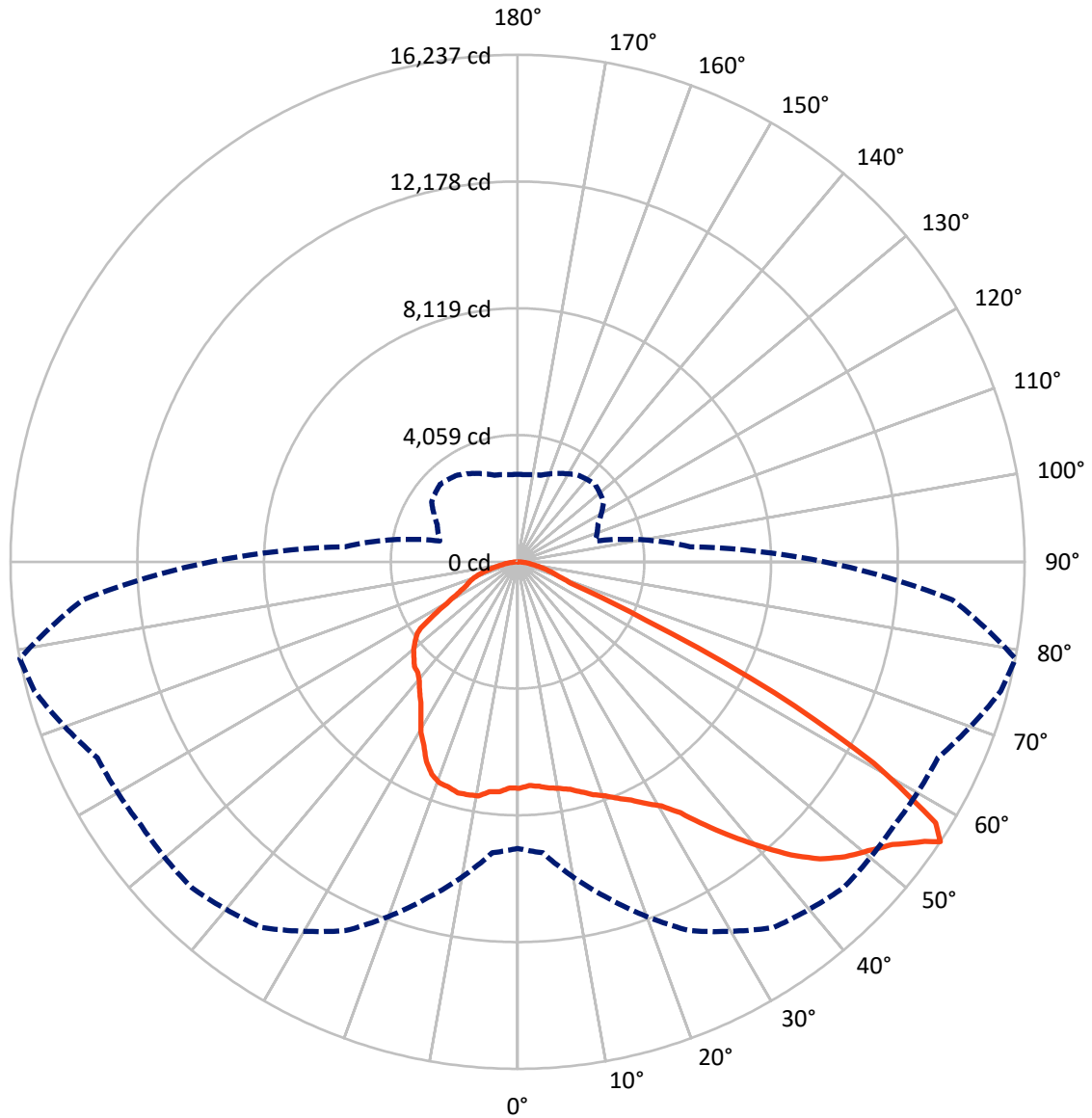
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

REPORT NUMBER: P648180
CATALOG NUMBER: GALN-SA9A-835-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P648180
 CATALOG NUMBER: GALN-SA9A-835-U-T3R-GRSWH

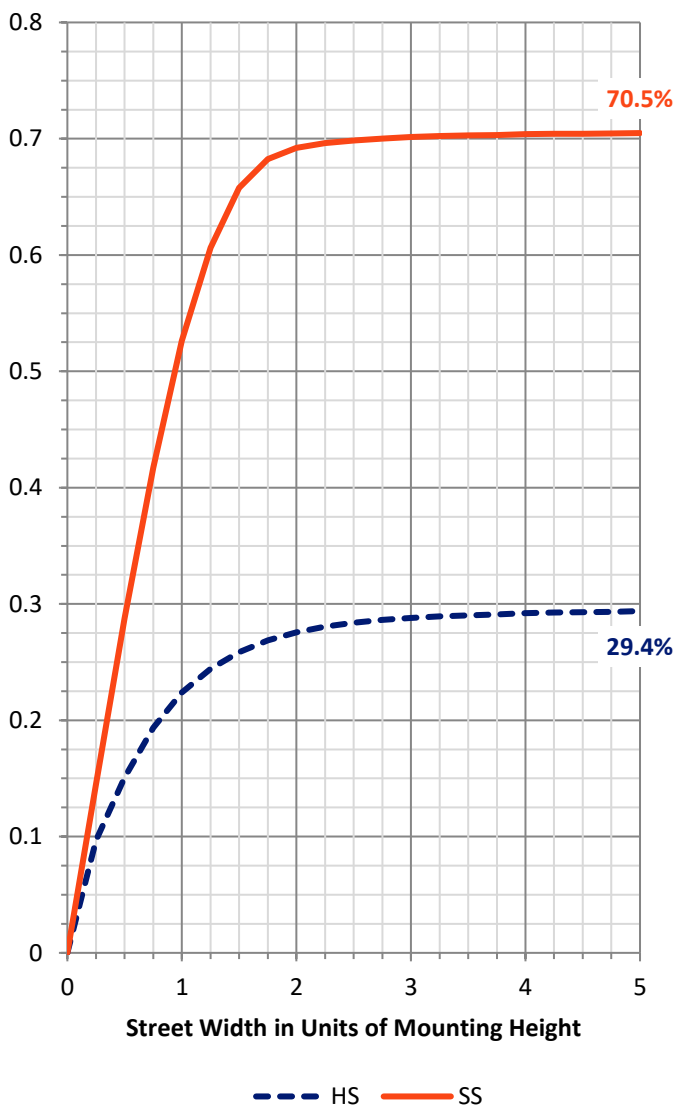
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8368.5	0.0	8368.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	19968.3	0.0	19968.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	28336.8	0.0	28336.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.2	2.3
10°-20°	1804.0	6.4
20°-30°	3086.3	10.9
30°-40°	4730.2	16.7
40°-50°	6392.8	22.6
50°-60°	7342.3	25.9
60°-70°	3346.9	11.8
70°-80°	825.2	2.9
80°-90°	150.0	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°	28336.8	100.0
0°-180°	28336.8	100.0

Coefficient of Utilization



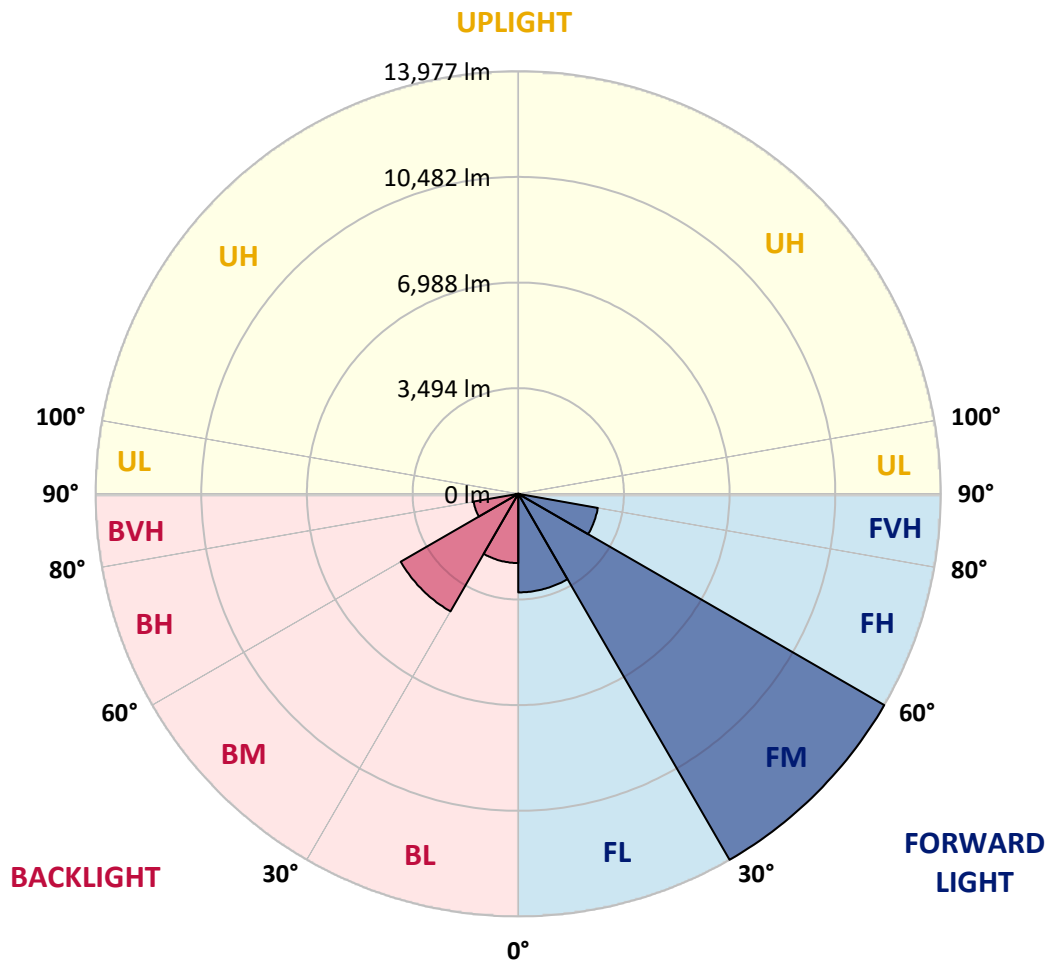
REPORT NUMBER: P648180
 CATALOG NUMBER: GALN-SA9A-835-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3260.4	11.5			
FM (30°-60°)	13976.5	49.3			
FH (60°-80°)	2671.5	9.4			G2/5000
FVH (80°-90°)	59.9	0.2			G1/100
BL (0°-30°)	2289.1	8.1	B3/2500		
BM (30°-60°)	4488.7	15.8	B3/5000		
BH (60°-80°)	1500.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	90.1	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: P648180

CATALOG NUMBER: GALN-SA9A-835-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3
2.5°	6897.3	6879.6	6922.0	6953.7	6992.6	7042.0	7066.7	7080.8	7204.4	7172.6	7267.9
5°	6749.0	6703.1	6734.9	6759.6	6826.7	6886.7	6953.7	7059.7	7172.6	7222.0	7338.5
7.5°	6618.4	6593.7	6586.7	6604.3	6696.1	6773.7	6890.2	7045.5	7229.0	7310.2	7377.3
10°	6403.1	6367.8	6420.8	6537.3	6561.9	6724.3	6858.5	7080.8	7239.7	7380.9	7578.5
12.5°	6307.8	6272.5	6283.1	6350.1	6523.1	6678.4	6837.2	7087.9	7423.2	7479.7	7744.4
15°	6459.6	6424.3	6434.9	6417.2	6583.2	6664.3	6914.9	7229.0	7550.3	7645.6	7928.0
17.5°	6805.5	6809.0	6763.2	6724.3	6685.5	6858.5	7031.4	7313.8	7599.7	7839.7	8051.5
20°	7465.6	7349.1	7257.3	7038.5	6978.5	7052.6	7271.4	7543.3	7800.9	7998.6	8238.6
22.5°	7973.8	7984.5	7853.9	7493.8	7363.2	7395.0	7582.0	7804.5	8086.8	8228.0	8503.4
25°	8711.6	8637.5	8496.3	8210.4	7917.4	7942.1	8079.8	8280.9	8358.6	8457.4	8757.5
27.5°	9385.8	9407.0	9128.1	8859.9	8496.3	8425.7	8672.7	8708.1	8577.5	8764.6	8866.9
30°	10070.6	10052.9	9869.4	9555.3	9198.7	9212.9	9322.2	9149.3	8969.3	9071.7	9142.2
32.5°	10780.1	10578.9	10571.8	10289.4	10017.6	9887.0	9752.9	9837.6	9558.8	9579.9	9512.9
35°	11348.4	11376.6	11214.3	11013.1	10878.9	10649.5	10282.4	10434.2	10381.2	10356.5	10067.0
37.5°	11761.4	11652.0	11733.1	11666.1	11539.0	11253.0	10871.9	11016.6	11041.3	11161.3	10826.0
40°	12100.2	12054.4	12269.7	12305.0	12216.8	11599.0	10914.2	11344.9	11715.5	11976.7	11577.8
42.5°	12262.6	12361.5	12587.4	12859.1	12661.5	12001.4	11133.1	11595.4	12421.4	12834.5	12290.8
45°	12481.5	12354.4	12689.7	13187.4	13191.0	12340.2	11344.9	11934.3	12972.1	13572.2	12777.9
47.5°	12259.0	12322.6	12668.5	13300.4	13462.7	12696.7	11916.7	12414.4	13579.3	14112.2	13229.8
50°	11761.4	11888.4	12520.2	13176.8	13667.5	13074.5	12573.3	12933.3	14140.5	14546.4	13303.9
52.5°	11242.5	11313.1	12301.4	13272.2	13759.3	13561.6	13452.2	13649.8	14825.2	15037.0	13395.6
55°	9830.6	10165.9	11577.8	13229.8	14207.5	14440.5	14355.8	14645.2	15601.8	15813.6	13896.9
56°	9177.5	9354.0	11143.7	13032.1	14295.8	14761.7	14719.4	14850.0	16014.8	16237.1	13974.6
57.5°	7970.3	7984.5	9502.3	12156.7	13963.9	14857.0	14814.7	14917.0	15933.7	15781.8	13293.3
60°	4987.6	5206.5	6466.6	9350.5	11874.4	13783.9	14024.0	13201.5	13434.5	13113.3	10342.4
62.5°	2583.8	2552.0	3388.7	5467.7	7882.1	9869.4	10091.8	10052.9	9692.9	9223.4	6756.1
65°	1288.3	1295.5	1772.0	2707.4	4038.1	5167.6	5788.9	5856.0	4899.4	4507.6	3205.1
67.5°	935.4	970.7	1274.3	1655.5	1902.6	2128.5	2608.6	2559.2	1937.8	1842.6	1708.4
70°	727.2	758.9	1034.3	1263.7	1147.2	1147.2	1249.6	1292.0	1380.2	1419.0	1464.9
72.5°	529.5	554.2	790.7	871.9	751.8	808.3	935.4	1034.3	1126.0	1140.1	1193.1
75°	363.5	384.8	518.9	480.1	451.8	557.7	684.8	776.6	843.6	878.9	910.7
77.5°	236.5	243.6	296.5	250.6	289.5	360.0	444.7	522.4	589.4	617.7	624.8
80°	105.9	116.5	127.1	158.9	201.2	257.7	317.7	381.2	423.6	434.2	455.3
82.5°	60.0	60.0	77.7	113.0	148.2	187.1	229.4	275.3	324.7	335.4	331.8
85°	31.8	31.8	45.9	67.1	91.8	109.5	105.9	109.5	116.5	134.1	130.6
87.5°	10.6	10.6	14.1	14.1	17.6	21.1	17.6	24.7	31.8	31.8	31.8
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: P648180

CATALOG NUMBER: GALN-SA9A-835-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3	7250.3
2.5°	7239.7	7271.4	7229.0	7320.8	7320.8	7303.2	7215.0	7243.2	7264.4	7264.4	7282.1
5°	7377.3	7366.8	7395.0	7285.6	7218.5	7193.8	7049.0	6978.5	6918.4	6914.9	6862.0
7.5°	7455.0	7426.8	7416.2	7335.0	7038.5	6858.5	6547.8	6367.8	6329.0	6191.3	6244.3
10°	7578.5	7631.5	7578.5	7137.3	6724.3	6311.3	6007.7	5728.9	5619.5	5531.3	5478.3
12.5°	7832.7	7808.0	7500.9	6904.3	6325.5	5834.8	5383.0	5090.0	4980.6	4902.9	4895.9
15°	8048.0	7924.4	7455.0	6537.3	5704.2	5181.8	4811.1	4602.9	4553.5	4560.5	4592.3
17.5°	8122.1	8037.4	7215.0	6156.0	5241.8	4627.6	4454.6	4422.9	4468.7	4521.7	4535.8
20°	8238.6	8104.4	7116.1	5637.1	4670.0	4281.7	4271.1	4384.0	4468.7	4546.4	4557.0
22.5°	8482.2	8143.3	6794.9	5146.5	4278.2	4179.3	4281.7	4377.0	4507.6	4571.2	4514.6
25°	8552.8	8058.6	6343.1	4557.0	4031.0	4115.8	4225.2	4355.8	4447.6	4482.9	4507.6
27.5°	8612.8	7928.0	5732.4	4165.2	3953.4	4112.2	4225.2	4334.6	4384.0	4415.8	4444.1
30°	8782.2	7889.1	5203.0	3904.0	3904.0	4041.6	4186.4	4214.6	4281.7	4320.5	4369.9
32.5°	8866.9	7620.9	4659.4	3738.1	3854.6	4076.9	4087.6	4140.5	4144.0	4175.8	4122.8
35°	9089.3	7430.3	4154.6	3618.1	3875.8	4041.6	4094.6	4062.8	3889.9	3805.1	3822.8
37.5°	9251.7	7335.0	3791.1	3603.9	3879.3	4080.4	4108.7	3868.7	3688.6	3547.5	3582.8
40°	9689.4	7098.4	3515.7	3579.2	3911.0	4122.8	4045.2	3784.0	3459.2	3314.5	3289.8
42.5°	10024.7	6929.1	3342.7	3551.0	3935.7	4182.9	4013.4	3614.6	3282.7	3148.6	3183.9
45°	10413.0	6890.2	3250.9	3558.0	3978.1	4214.6	3974.6	3484.0	3131.0	3078.0	3067.4
47.5°	10550.6	6611.3	3152.1	3498.1	3967.5	4204.0	3844.0	3385.1	3074.4	3081.6	3109.8
50°	10321.2	6325.5	3078.0	3374.5	3896.9	4108.7	3639.2	3254.5	3042.7	3131.0	3180.4
52.5°	10028.2	6032.5	2926.2	3208.6	3752.2	3960.5	3543.9	3247.4	3010.9	2982.7	2993.3
55°	10116.4	5792.5	2714.4	2982.7	3519.3	3685.1	3438.1	3180.4	2933.3	2827.4	2862.6
56°	9830.6	5545.4	2576.8	2841.5	3360.4	3508.6	3385.1	3120.3	2869.8	2799.1	2799.1
57.5°	9022.2	4715.9	2396.8	2615.6	3025.0	3201.5	3282.7	3085.1	2799.1	2675.6	2679.1
60°	6653.7	3353.4	2149.6	2305.0	2506.1	2647.4	3025.0	2986.2	2622.7	2537.9	2506.1
62.5°	4101.7	2449.7	1973.2	2033.2	2135.6	2252.1	2640.3	2703.9	2435.6	2343.8	2322.6
65°	2297.9	1874.3	1839.0	1863.8	1913.2	1973.2	2192.0	2333.2	2149.6	2008.5	2001.4
67.5°	1680.2	1676.6	1704.9	1726.0	1747.3	1747.3	1800.2	1856.6	1832.0	1719.0	1708.4
70°	1493.1	1503.7	1524.9	1528.4	1535.5	1510.8	1468.4	1450.7	1479.0	1408.4	1394.3
72.5°	1231.9	1267.2	1292.0	1295.5	1256.6	1224.8	1168.4	1108.3	1087.2	1073.1	1069.5
75°	946.0	970.7	981.3	977.7	963.6	917.8	850.7	790.7	751.8	709.5	730.7
77.5°	638.9	674.2	691.9	691.9	670.6	600.1	568.3	522.4	483.6	437.7	444.7
80°	448.3	473.0	501.2	497.7	462.4	427.1	381.2	338.9	307.1	271.8	268.3
82.5°	335.4	349.5	363.5	356.5	331.8	296.5	264.7	225.9	190.6	165.9	165.9
85°	120.0	130.6	158.9	165.9	180.0	180.0	151.7	127.1	102.3	84.7	84.7
87.5°	35.3	35.3	38.8	38.8	35.3	38.8	31.8	35.3	38.8	24.7	24.7
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)