

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: P651425

Luminaire Tested: **GALN-SA5D-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651425
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-SA5D-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA 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: 28441.8 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

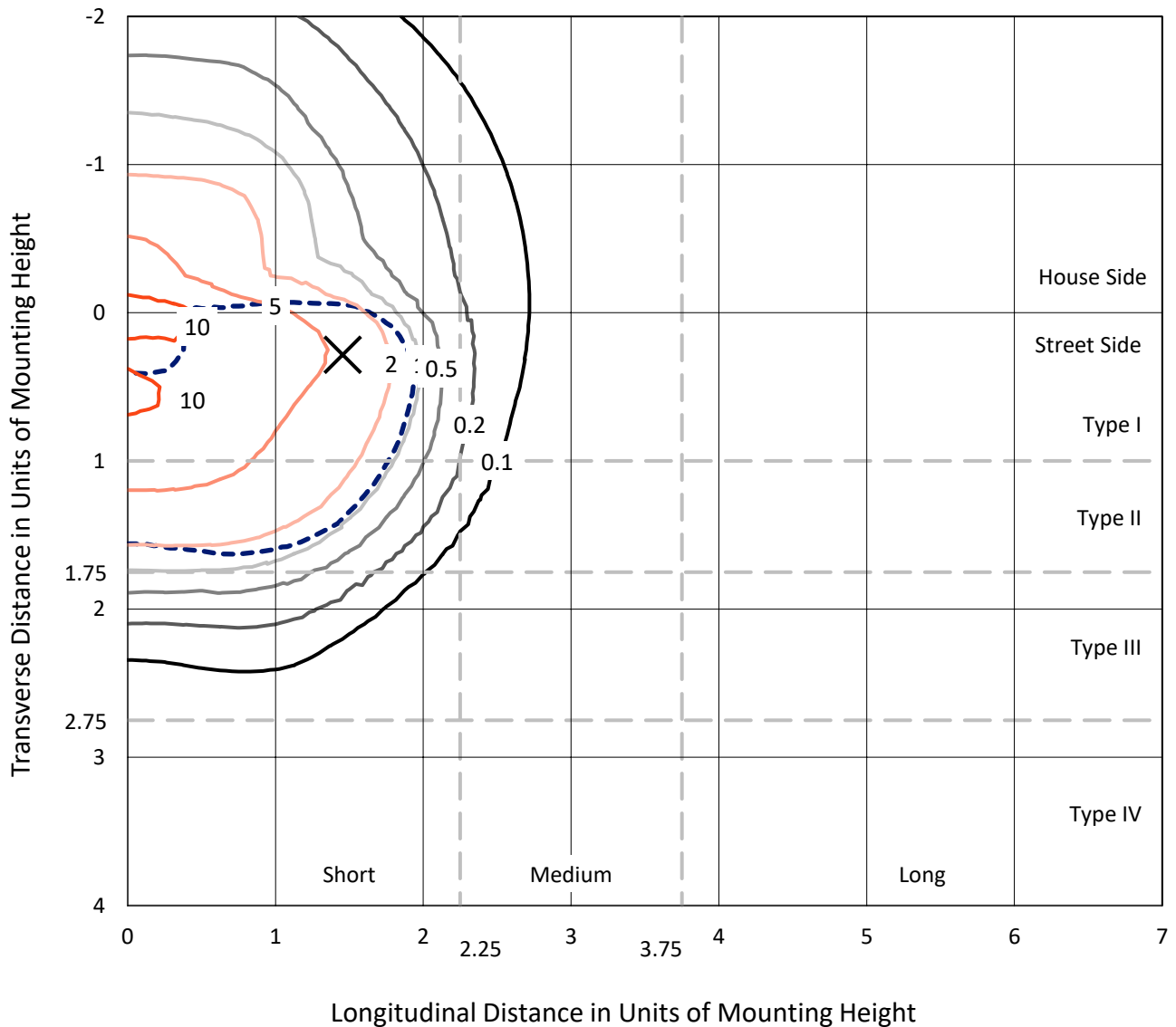
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651425
 CATALOG NUMBER: GALN-SA5D-840-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

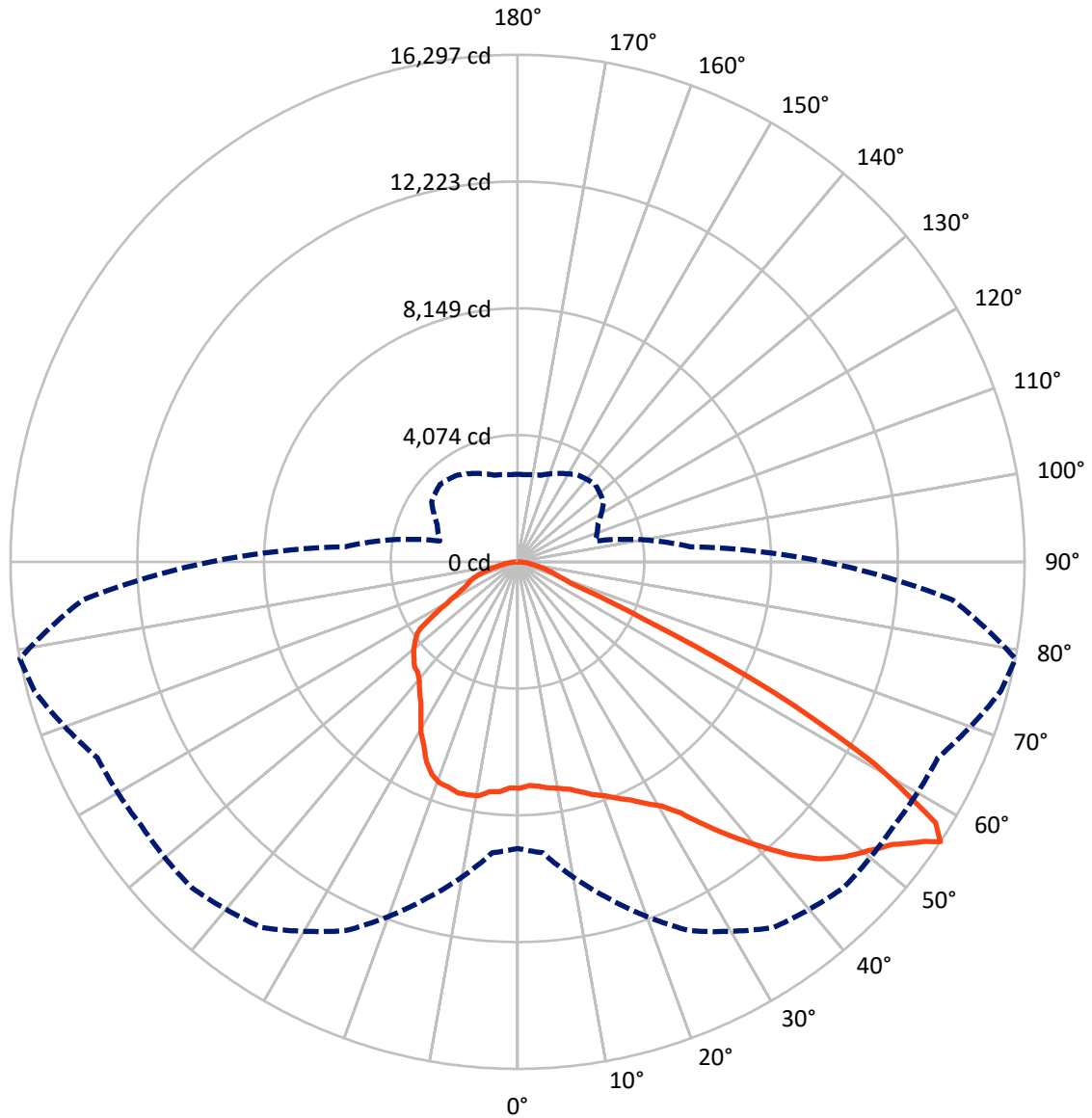
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

REPORT NUMBER: P651425
CATALOG NUMBER: GALN-SA5D-840-U-T3R-GRSWH

Luminous Intensity Polar Plot



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

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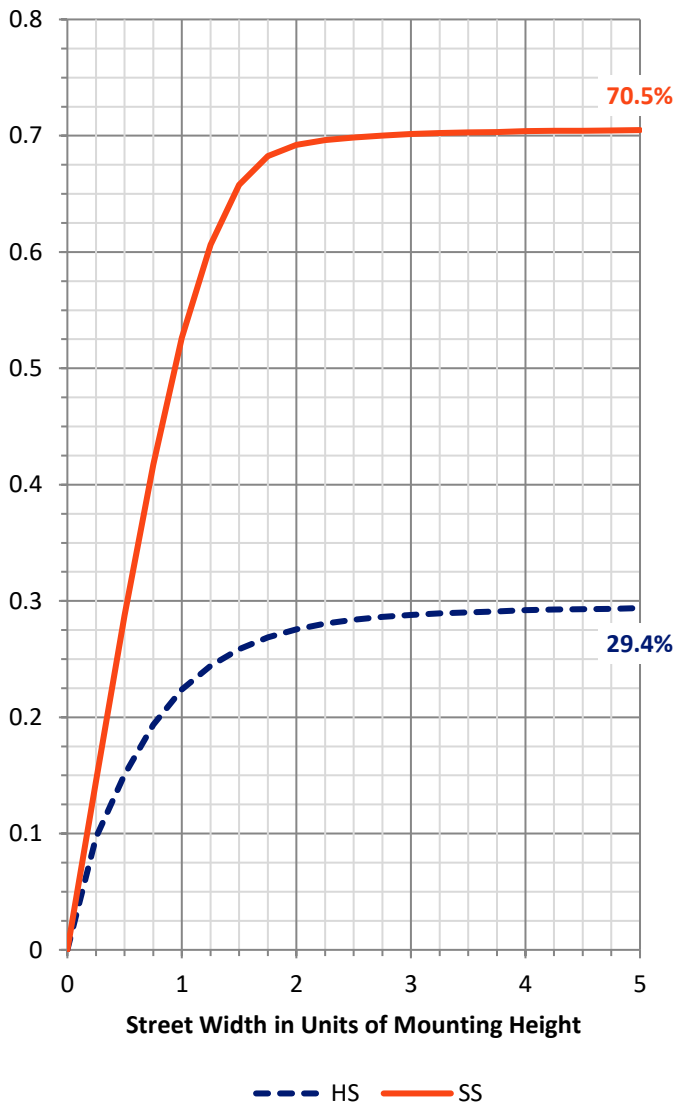
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8399.5	0.0	8399.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	20042.3	0.0	20042.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	28441.8	0.0	28441.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.6	2.3
10°-20°	1810.7	6.4
20°-30°	3097.7	10.9
30°-40°	4747.7	16.7
40°-50°	6416.5	22.6
50°-60°	7369.5	25.9
60°-70°	3359.3	11.8
70°-80°	828.2	2.9
80°-90°	150.5	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°	28441.8	100.0
0°-180°	28441.8	100.0



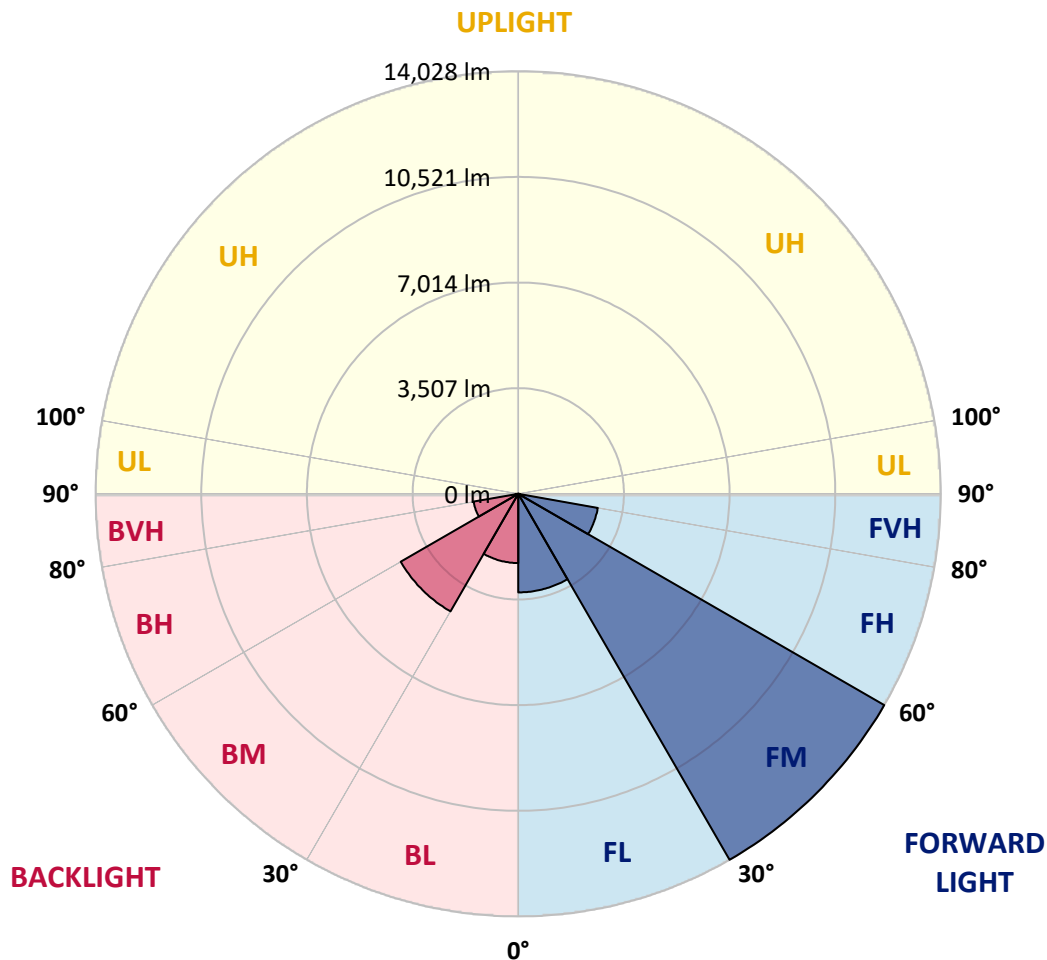
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 CATALOG NUMBER: GALN-SA5D-840-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3272.5	11.5			
FM (30°-60°)	14028.3	49.3			
FH (60°-80°)	2681.4	9.4			G2/5000
FVH (80°-90°)	60.1	0.2			G1/100
BL (0°-30°)	2297.6	8.1	B3/2500		
BM (30°-60°)	4505.4	15.8	B3/5000		
BH (60°-80°)	1506.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	90.4	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°	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1
2.5°	6922.9	6905.1	6947.7	6979.5	7018.5	7068.1	7092.9	7107.0	7231.1	7199.2	7294.8
5°	6774.0	6728.0	6759.9	6784.7	6852.0	6912.2	6979.5	7085.8	7199.2	7248.7	7365.7
7.5°	6643.0	6618.2	6611.1	6628.8	6720.9	6798.8	6915.7	7071.6	7255.9	7337.4	7404.7
10°	6426.8	6391.4	6444.6	6561.5	6586.3	6749.2	6883.8	7107.0	7266.5	7408.2	7606.6
12.5°	6331.1	6295.7	6306.4	6373.7	6547.3	6703.2	6862.6	7114.2	7450.8	7507.4	7773.1
15°	6483.5	6448.1	6458.7	6441.0	6607.5	6689.0	6940.5	7255.9	7578.3	7674.0	7957.4
17.5°	6830.7	6834.3	6788.2	6749.2	6710.3	6883.8	7057.5	7340.9	7627.9	7868.8	8081.3
20°	7493.2	7376.3	7284.2	7064.6	7004.4	7078.7	7298.4	7571.2	7829.8	8028.2	8269.1
22.5°	8003.5	8014.1	7882.9	7521.6	7390.5	7422.4	7610.1	7833.3	8116.8	8258.5	8534.9
25°	8743.9	8669.4	8527.7	8240.8	7946.7	7971.5	8109.7	8311.7	8389.6	8488.8	8790.0
27.5°	9420.5	9441.8	9161.9	8892.6	8527.7	8456.9	8704.9	8740.3	8609.2	8797.0	8899.8
30°	10107.9	10090.1	9906.0	9590.7	9232.8	9247.0	9356.8	9183.2	9002.5	9105.3	9176.2
32.5°	10820.1	10618.0	10611.0	10327.6	10054.7	9923.7	9789.1	9874.1	9594.2	9615.4	9548.1
35°	11390.4	11418.8	11255.8	11053.9	10919.2	10688.9	10320.5	10472.8	10419.7	10394.8	10104.4
37.5°	11804.9	11695.1	11776.6	11709.3	11581.7	11294.8	10912.1	11057.4	11082.2	11202.6	10866.1
40°	12145.0	12099.0	12315.1	12350.6	12262.0	11642.0	10954.7	11386.9	11758.9	12021.1	11620.7
42.5°	12308.0	12407.3	12634.0	12906.8	12708.4	12045.9	11174.3	11638.4	12467.5	12882.0	12336.4
45°	12527.7	12400.1	12736.8	13236.3	13239.9	12386.0	11386.9	11978.5	13020.2	13622.4	12825.3
47.5°	12304.5	12368.3	12715.5	13349.7	13512.6	12743.8	11960.9	12460.4	13629.6	14164.5	13278.8
50°	11804.9	11932.5	12566.6	13225.7	13718.1	13122.9	12619.8	12981.2	14192.9	14600.3	13353.2
52.5°	11284.1	11355.0	12347.1	13321.4	13810.2	13611.8	13502.0	13700.4	14880.2	15092.8	13445.3
55°	9866.9	10203.6	11620.7	13278.8	14260.2	14494.0	14409.0	14699.5	15659.7	15872.2	13948.4
56°	9211.6	9388.7	11185.0	13080.4	14348.7	14816.4	14773.9	14905.0	16074.1	16297.3	14026.4
57.5°	7999.8	8014.1	9537.5	12201.7	14015.8	14912.1	14869.6	14972.3	15992.7	15840.3	13342.5
60°	5006.1	5225.8	6490.6	9385.1	11918.3	13835.0	14076.0	13250.5	13484.3	13161.9	10380.7
62.5°	2593.4	2561.5	3401.2	5487.9	7911.3	9906.0	10129.2	10090.1	9728.9	9257.6	6781.2
65°	1293.1	1300.3	1778.5	2717.4	4053.1	5186.8	5810.4	5877.7	4917.6	4524.3	3217.0
67.5°	938.9	974.3	1279.0	1661.6	1909.7	2136.4	2618.2	2568.6	1945.1	1849.4	1714.8
70°	729.8	761.7	1038.0	1268.4	1151.4	1151.4	1254.2	1296.7	1385.3	1424.2	1470.3
72.5°	531.4	556.2	793.7	875.1	754.6	811.3	938.9	1038.0	1130.2	1144.3	1197.5
75°	364.9	386.2	520.8	481.8	453.5	559.8	687.3	779.4	846.7	882.2	914.1
77.5°	237.4	244.5	297.6	251.5	290.5	361.4	446.4	524.4	591.6	620.0	627.1
80°	106.3	116.9	127.6	159.5	201.9	258.6	318.8	382.7	425.1	435.8	457.0
82.5°	60.2	60.2	78.0	113.4	148.8	187.8	230.3	276.4	326.0	336.6	333.0
85°	31.9	31.9	46.1	67.3	92.1	109.8	106.3	109.8	116.9	134.6	131.1
87.5°	10.6	10.6	14.2	14.2	17.7	21.3	17.7	24.8	31.9	31.9	31.9
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°	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1	7277.1
2.5°	7266.5	7298.4	7255.9	7348.0	7348.0	7330.2	7241.7	7270.0	7291.3	7291.3	7309.0
5°	7404.7	7394.1	7422.4	7312.6	7245.2	7220.4	7075.2	7004.4	6944.1	6940.5	6887.4
7.5°	7482.6	7454.3	7443.6	7362.1	7064.6	6883.8	6572.1	6391.4	6352.4	6214.2	6267.4
10°	7606.6	7659.7	7606.6	7163.7	6749.2	6334.7	6030.1	5750.2	5640.3	5551.7	5498.6
12.5°	7861.7	7836.9	7528.6	6929.9	6348.9	5856.4	5402.9	5108.9	4999.1	4921.1	4914.0
15°	8077.8	7953.8	7482.6	6561.5	5725.4	5201.0	4828.9	4619.9	4570.3	4577.4	4609.4
17.5°	8152.2	8067.2	7241.7	6178.8	5261.2	4644.8	4471.2	4439.2	4485.3	4538.5	4552.7
20°	8269.1	8134.5	7142.5	5658.0	4687.2	4297.5	4286.9	4400.3	4485.3	4563.3	4573.9
22.5°	8513.6	8173.5	6820.1	5165.6	4294.0	4194.8	4297.5	4393.2	4524.3	4588.1	4531.4
25°	8584.4	8088.5	6366.6	4573.9	4046.0	4131.0	4240.8	4371.9	4464.0	4499.5	4524.3
27.5°	8644.7	7957.4	5753.7	4180.6	3968.1	4127.5	4240.8	4350.7	4400.3	4432.2	4460.5
30°	8814.8	7918.4	5222.3	3918.5	3918.5	4056.6	4201.9	4230.2	4297.5	4336.5	4386.2
32.5°	8899.8	7649.1	4676.6	3752.0	3868.9	4092.1	4102.7	4155.8	4159.3	4191.3	4138.1
35°	9123.0	7457.8	4170.0	3631.4	3890.1	4056.6	4109.8	4077.8	3904.3	3819.2	3837.0
37.5°	9286.0	7362.1	3805.1	3617.3	3893.7	4095.6	4123.9	3883.0	3702.3	3560.6	3596.0
40°	9725.2	7124.8	3528.8	3592.5	3925.5	4138.1	4060.2	3798.0	3472.1	3326.8	3302.0
42.5°	10061.8	6954.7	3355.2	3564.2	3950.3	4198.4	4028.3	3627.9	3294.9	3160.3	3195.7
45°	10451.5	6915.7	3263.0	3571.2	3992.8	4230.2	3989.3	3496.9	3142.6	3089.4	3078.8
47.5°	10589.7	6635.8	3163.8	3511.0	3982.2	4219.6	3858.3	3397.6	3085.9	3092.9	3121.3
50°	10359.4	6348.9	3089.4	3387.0	3911.4	4123.9	3652.7	3266.5	3054.0	3142.6	3192.2
52.5°	10065.4	6054.9	2937.1	3220.5	3766.1	3975.2	3557.1	3259.5	3022.1	2993.8	3004.4
55°	10154.0	5813.9	2724.5	2993.8	3532.3	3698.8	3450.8	3192.2	2944.2	2837.9	2873.3
56°	9866.9	5565.9	2586.3	2852.0	3372.8	3521.7	3397.6	3132.0	2880.3	2809.5	2809.5
57.5°	9055.6	4733.3	2405.6	2625.3	3036.3	3213.4	3294.9	3096.5	2809.5	2685.5	2689.1
60°	6678.4	3365.8	2157.7	2313.5	2515.4	2657.1	3036.3	2997.3	2632.4	2547.4	2515.4
62.5°	4116.9	2458.7	1980.5	2040.7	2143.5	2260.4	2650.1	2713.8	2444.6	2352.5	2331.3
65°	2306.4	1881.3	1845.8	1870.6	1920.3	1980.5	2200.1	2341.8	2157.7	2015.9	2008.8
67.5°	1686.5	1682.8	1711.2	1732.5	1753.7	1753.7	1806.9	1863.6	1838.8	1725.4	1714.8
70°	1498.7	1509.3	1530.5	1534.1	1541.1	1516.3	1473.9	1456.1	1484.4	1413.6	1399.4
72.5°	1236.4	1271.9	1296.7	1300.3	1261.2	1229.4	1172.7	1112.5	1091.2	1077.1	1073.5
75°	949.5	974.3	984.9	981.4	967.2	921.1	853.9	793.7	754.6	712.2	733.4
77.5°	641.3	676.7	694.4	694.4	673.1	602.3	570.4	524.4	485.3	439.3	446.4
80°	449.9	474.7	503.1	499.6	464.1	428.7	382.7	340.1	308.2	272.8	269.3
82.5°	336.6	350.8	364.9	357.8	333.0	297.6	265.8	226.7	191.3	166.5	166.5
85°	120.4	131.1	159.5	166.5	180.6	180.6	152.3	127.6	102.8	85.0	85.0
87.5°	35.4	35.4	38.9	38.9	35.4	38.9	31.9	35.4	38.9	24.8	24.8
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)