

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: P647689

Luminaire Tested: **GALN-SA9D-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39541.5 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

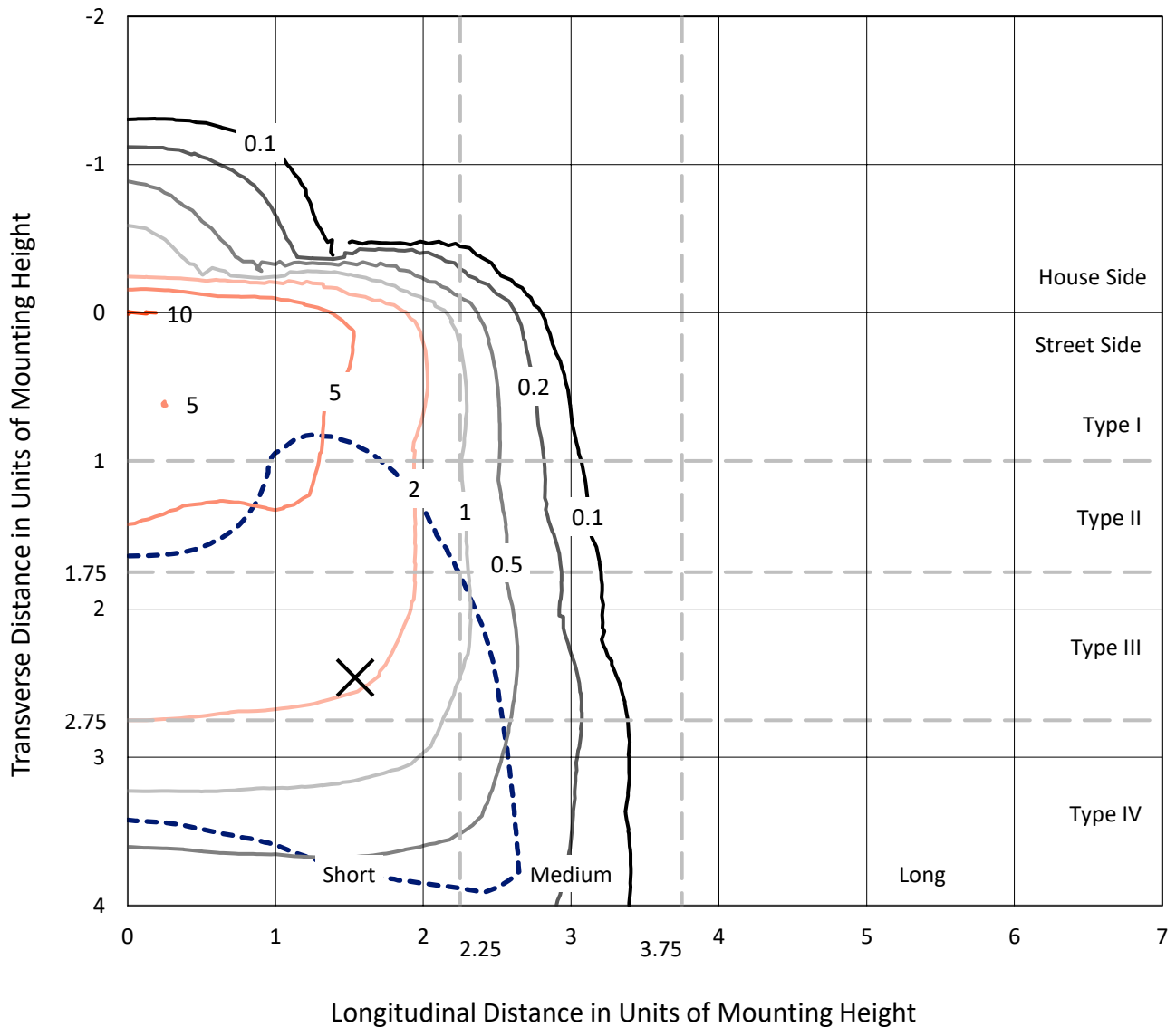
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

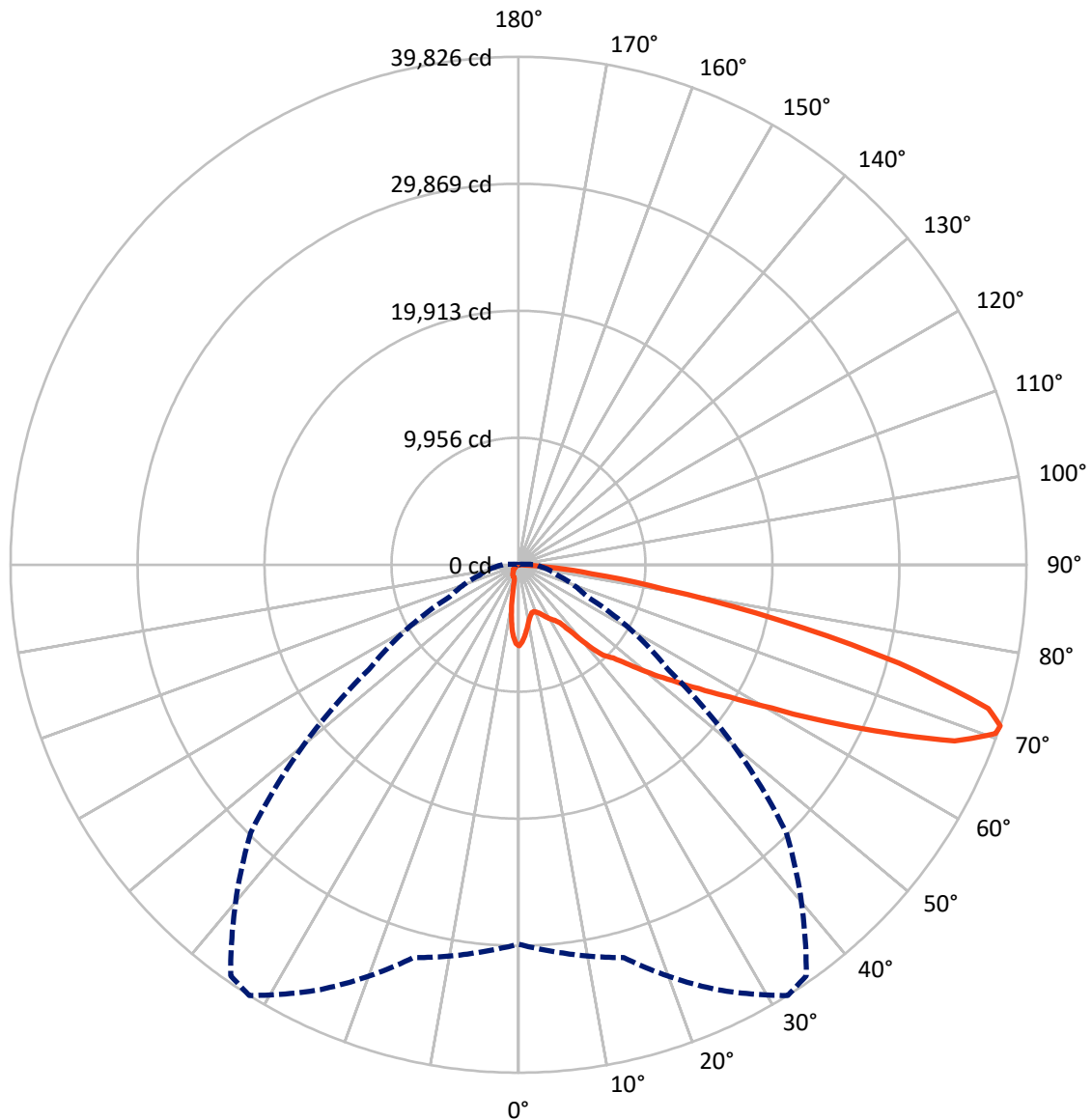
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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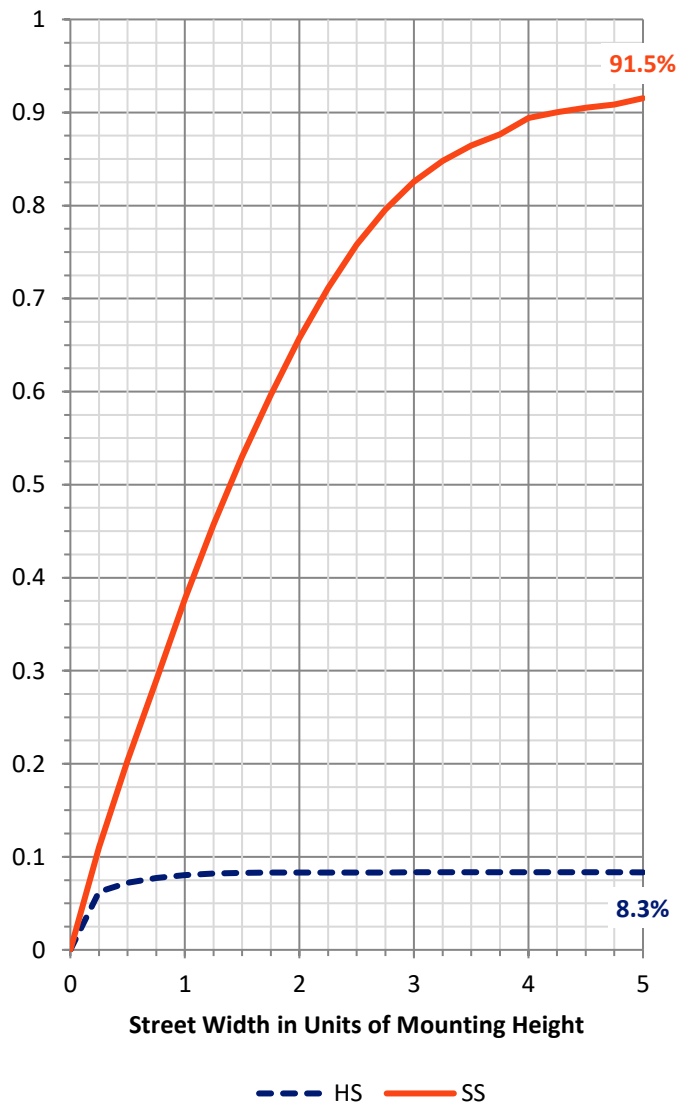
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3312.0	0.0	3312.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	36229.5	0.0	36229.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	39541.5	0.0	39541.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.1	1.3
10°-20°	1122.2	2.8
20°-30°	1745.8	4.4
30°-40°	2908.5	7.4
40°-50°	5410.2	13.7
50°-60°	8686.4	22.0
60°-70°	11683.6	29.5
70°-80°	6932.0	17.5
80°-90°	535.8	1.4
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°	39541.5	100.0
0°-180°	39541.5	100.0

Coefficient of Utilization



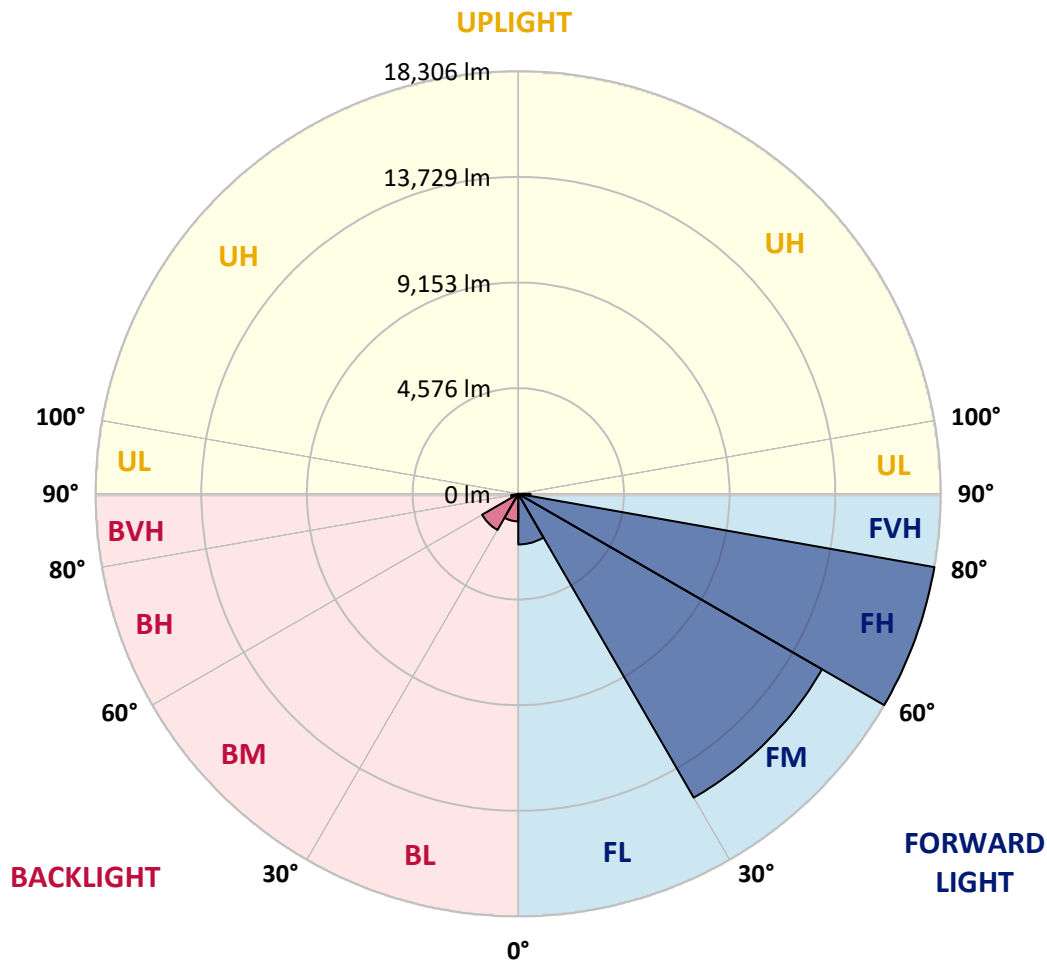
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2191.7	5.5			
FM (30°-60°)	15198.3	38.4			
FH (60°-80°)	18305.8	46.3			G5
FVH (80°-90°)	533.7	1.3			G4/750
BL (0°-30°)	1193.4	3.0	B3/2500		
BM (30°-60°)	1806.8	4.6	B2/2500		
BH (60°-80°)	309.8	0.8	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9
2.5°	5897.6	5958.2	5949.2	5970.4	6022.0	6043.2	6100.9	6164.6	6252.6	6313.3	6352.8
5°	5281.3	5326.9	5332.9	5439.2	5490.8	5548.5	5718.5	5903.6	6110.0	6273.9	6383.2
7.5°	4622.8	4647.0	4695.6	4835.2	4965.7	5023.3	5281.3	5603.1	5927.9	6234.5	6431.7
10°	4079.4	4106.8	4194.8	4343.5	4464.9	4540.8	4898.9	5302.6	5757.9	6213.2	6501.6
12.5°	3769.8	3784.9	3818.4	3952.0	4106.8	4188.7	4574.1	5035.6	5621.3	6222.3	6620.0
15°	3748.5	3742.5	3703.0	3757.7	3897.3	3982.3	4358.6	4853.4	5499.9	6252.6	6759.6
17.5°	3860.9	3845.7	3751.6	3751.6	3866.9	3936.8	4267.6	4756.3	5439.2	6322.5	6956.9
20°	4033.9	4009.6	3854.8	3842.7	3954.9	4027.8	4322.2	4762.4	5451.3	6453.0	7220.9
22.5°	4252.4	4225.1	3991.3	3997.4	4118.9	4191.7	4480.1	4871.6	5527.2	6613.8	7503.2
25°	4537.7	4507.3	4231.2	4219.0	4346.5	4410.2	4713.7	5065.9	5633.5	6814.2	7873.5
27.5°	4917.2	4853.4	4522.5	4504.4	4640.9	4722.9	4996.1	5326.9	5821.7	7090.4	8371.3
30°	5229.7	5160.0	4844.3	4795.7	4941.4	5005.2	5287.4	5679.0	6192.0	7573.0	9060.2
32.5°	5639.6	5536.4	5166.0	5038.5	5193.3	5275.3	5709.3	6334.6	6741.3	8082.9	9879.8
35°	6562.2	6498.5	6046.2	5600.1	5590.9	5694.1	6331.6	6996.3	7305.9	8878.2	10996.8
37.5°	7882.6	7837.0	7357.5	6759.6	6586.5	6538.0	7087.3	7724.8	8207.4	9970.9	12295.8
40°	9415.4	9309.2	8869.0	8362.2	8137.6	7994.9	7979.7	8808.4	9385.0	11455.1	13649.6
42.5°	10514.2	10319.9	9785.7	9749.3	9700.7	9552.0	9121.0	10392.8	10905.7	13051.7	15097.4
45°	11667.6	11373.2	10577.9	10441.3	10423.1	10414.0	10845.0	12268.6	12563.0	14781.8	16584.7
47.5°	12563.0	12329.3	11676.7	11616.0	11691.8	11898.2	13124.5	14259.7	14199.0	16323.7	17832.2
50°	13755.8	13579.8	12854.4	12969.7	13361.3	13698.2	15695.4	16429.9	15543.6	17537.8	18739.8
52.5°	15164.2	14839.4	14165.6	14478.2	15079.2	15640.7	18424.1	18330.0	16487.6	18451.4	19416.6
55°	16384.4	16153.7	15923.0	16247.8	17146.2	17847.4	20888.7	19753.5	17173.5	19185.9	19714.1
57.5°	18448.3	18393.8	18157.0	18487.8	19577.5	20305.9	23095.4	20858.3	17613.7	19568.4	19365.0
60°	21501.9	21413.8	20973.8	21395.6	22816.2	23960.4	25129.0	21850.9	17713.8	19419.7	18360.3
62.5°	25174.5	24874.0	24497.6	25119.9	27068.5	27572.4	27044.3	22439.8	17340.5	18235.9	15938.2
65°	28604.4	28294.8	28303.9	29615.1	31736.8	32079.7	29278.2	22351.8	16247.8	15270.5	11755.6
67.5°	31229.9	31178.3	31548.6	34107.3	36881.6	36644.8	31275.4	21034.4	13009.2	9898.0	6246.6
70°	31363.5	31463.6	32526.0	36845.2	39661.8	39285.5	31105.5	17097.7	8110.2	4552.9	2461.6
71°	29748.7	30422.5	31891.6	36760.1	39825.8	39337.1	29672.8	14320.4	5949.2	3174.9	1775.6
72.5°	25350.6	25705.7	28880.6	34596.0	38529.7	37485.6	26039.6	10037.7	3809.3	1942.5	1019.9
75°	13962.2	14836.4	19340.7	27141.4	30817.1	29900.4	16970.2	4768.4	1900.1	1062.4	421.9
77.5°	6647.3	6477.3	9436.6	16141.5	20894.8	20846.2	8550.4	2118.6	1107.9	719.3	212.5
80°	1900.1	2136.8	3612.0	7673.2	11600.8	11728.3	3284.1	1022.9	767.9	561.5	109.3
82.5°	573.7	585.8	1326.4	3393.4	5770.1	5439.2	1232.3	522.1	552.4	446.2	63.7
85°	100.1	124.4	391.6	1195.9	2200.5	1669.4	309.6	248.9	364.3	294.4	36.4
87.5°	6.1	9.1	130.5	136.6	194.3	112.3	54.7	36.4	78.9	78.9	21.2
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°	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9	6358.9
2.5°	6380.1	6398.4	6386.2	6358.9	6313.3	6258.8	6185.9	6125.2	6073.6	6046.2	6079.7
5°	6419.6	6443.9	6383.2	6246.6	6040.2	5815.6	5560.6	5363.3	5208.5	5160.0	5141.7
7.5°	6480.3	6495.5	6331.6	6028.1	5590.9	5059.8	4595.4	4203.8	3900.4	3809.3	3675.7
10°	6559.2	6550.1	6240.5	5676.0	4908.0	4109.7	3390.4	2856.2	2452.5	2306.8	2294.7
12.5°	6680.6	6632.1	6125.2	5196.4	4094.5	3050.4	2161.1	1690.7	1435.7	1350.7	1332.5
15°	6832.4	6717.0	5943.0	4634.9	3135.4	1969.9	1332.5	1189.8	1156.4	1150.4	1144.3
17.5°	7011.5	6829.3	5703.3	3945.9	2203.6	1277.9	1114.0	1110.9	1114.0	1107.9	1104.8
20°	7254.3	6947.7	5418.0	3129.3	1456.9	1077.5	1062.4	1062.4	1065.3	1062.4	1062.4
22.5°	7512.3	7087.3	5065.9	2388.8	1098.8	1022.9	1019.9	1025.9	1032.0	1028.9	1028.9
25°	7831.0	7269.5	4601.5	1636.0	983.4	977.3	980.4	992.5	1004.7	1007.7	1004.7
27.5°	8292.4	7494.1	4103.7	1126.1	901.5	907.6	937.9	968.3	986.5	989.5	989.5
30°	8811.4	7743.0	3454.1	913.6	834.7	834.7	871.1	928.8	968.3	974.3	977.3
32.5°	9479.2	8031.3	2734.8	822.5	770.9	764.9	798.3	868.1	940.9	962.2	962.2
35°	10304.7	8371.3	2033.6	764.9	725.4	710.3	728.5	786.1	880.2	940.9	947.0
37.5°	11273.0	8693.0	1487.3	713.3	682.9	661.7	673.8	719.3	795.2	886.3	910.6
40°	12168.4	8978.3	1110.9	670.8	640.4	625.3	634.4	655.6	719.3	804.4	819.5
42.5°	13145.8	9199.9	883.3	625.3	598.0	591.9	591.9	601.0	643.5	692.0	695.1
45°	14120.1	9278.8	740.6	570.7	552.4	558.5	555.5	549.4	567.6	561.5	561.5
47.5°	14815.1	9184.7	613.1	519.1	519.1	528.1	512.9	491.7	482.6	446.2	449.2
50°	15291.7	8841.7	503.9	458.3	482.6	494.8	464.4	431.0	397.6	358.1	349.1
52.5°	15489.0	8231.7	412.8	379.4	428.0	443.2	406.7	367.3	315.7	282.3	273.2
55°	15361.5	7478.9	343.0	309.6	361.2	379.4	343.0	297.5	239.8	203.3	197.3
57.5°	14800.0	6580.5	291.4	245.9	288.4	300.5	276.2	227.6	170.0	133.6	133.6
60°	13828.7	5651.7	236.8	194.3	215.5	233.7	209.5	163.9	115.3	82.0	75.9
62.5°	11858.8	4589.3	191.2	151.7	151.7	166.9	145.7	118.4	72.8	42.5	39.5
65°	8562.5	3147.6	151.7	112.3	109.3	109.3	91.1	78.9	42.5	18.2	12.1
67.5°	4653.1	1775.6	121.4	85.0	75.9	72.8	57.7	45.5	18.2	3.1	0.0
70°	1830.3	682.9	94.1	57.7	48.5	45.5	30.4	21.2	12.1	0.0	0.0
71°	1241.4	470.5	82.0	48.5	39.5	33.4	24.3	18.2	9.1	0.0	0.0
72.5°	710.3	291.4	63.7	36.4	30.4	24.3	18.2	12.1	9.1	0.0	0.0
75°	309.6	148.7	39.5	27.3	21.2	15.2	12.1	9.1	3.1	0.0	0.0
77.5°	157.9	82.0	27.3	21.2	12.1	9.1	6.1	3.1	0.0	0.0	0.0
80°	88.0	42.5	18.2	12.1	9.1	6.1	3.1	3.1	0.0	0.0	0.0
82.5°	48.5	24.3	9.1	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.4	15.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.2	6.1	0.0	0.0	0.0	0.0	3.1	3.1	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)