

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: P459061

Luminaire Tested: **GALN-SA5C-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32725 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

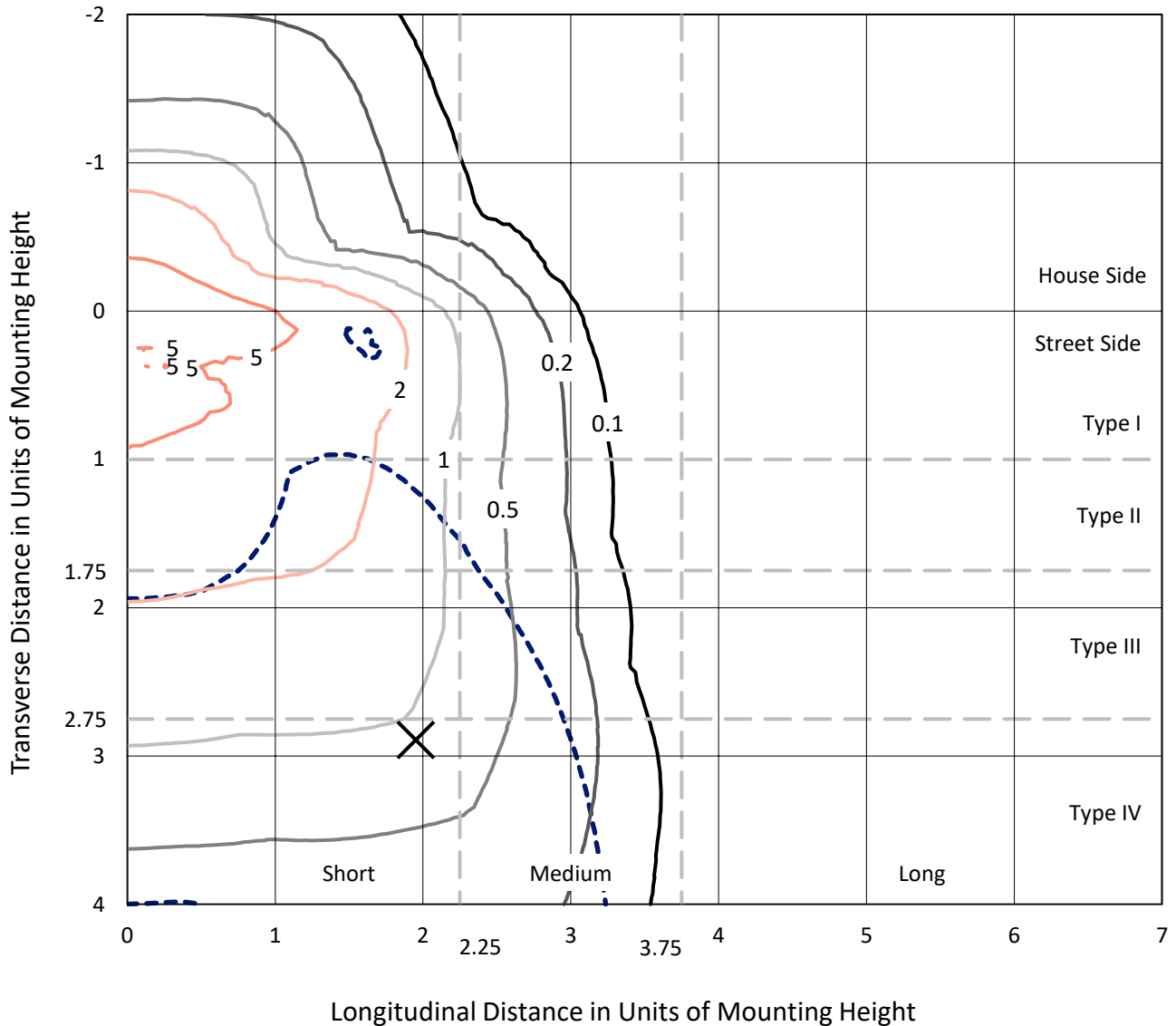
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459061
 CATALOG NUMBER: GALN-SA5C-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

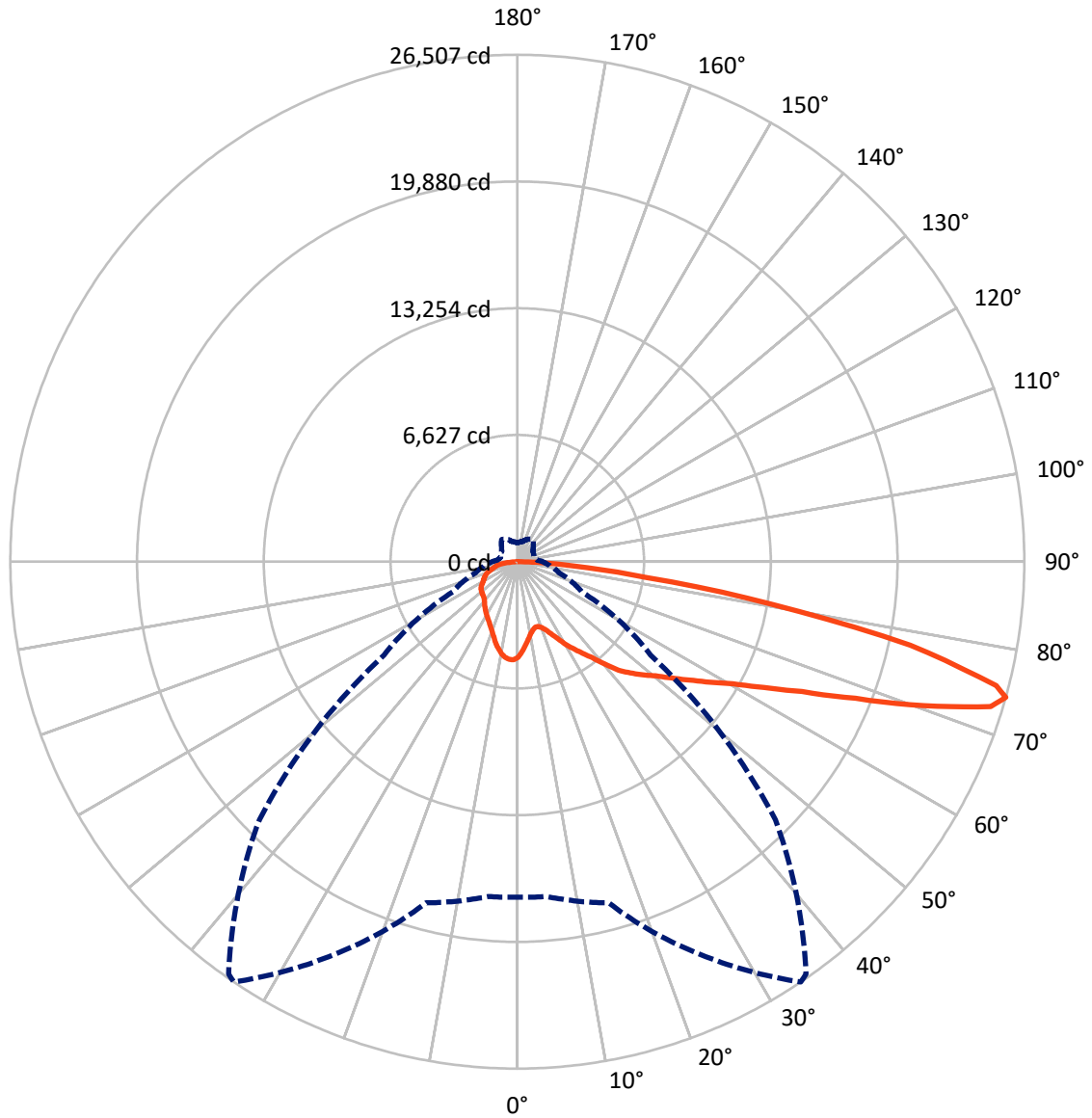
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

REPORT NUMBER: P459061
CATALOG NUMBER: GALN-SA5C-735-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P459061

CATALOG NUMBER: GALN-SA5C-735-U-T4FT

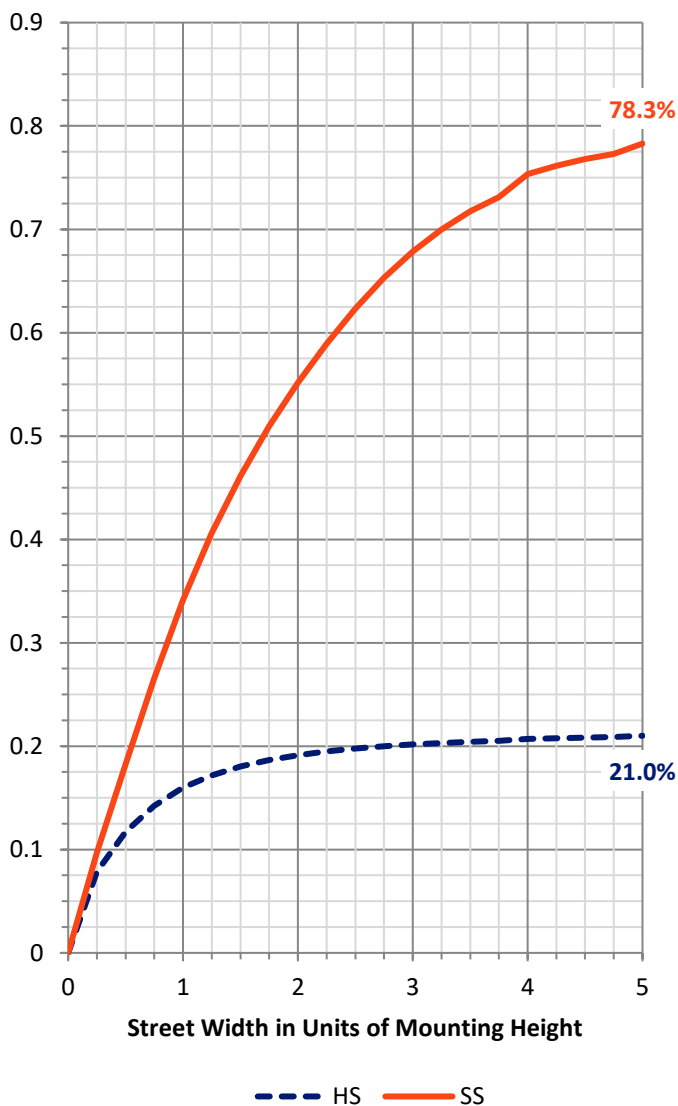
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6964.1	0.0	6964.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	25760.9	0.0	25760.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	32725.0	0.0	32725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.4	1.4
10°-20°	1243.9	3.8
20°-30°	2050.9	6.3
30°-40°	3072.0	9.4
40°-50°	4465.9	13.6
50°-60°	6237.8	19.1
60°-70°	7809.3	23.9
70°-80°	6457.7	19.7
80°-90°	933.1	2.9
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°	32725.0	100.0
0°-180°	32725.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459061

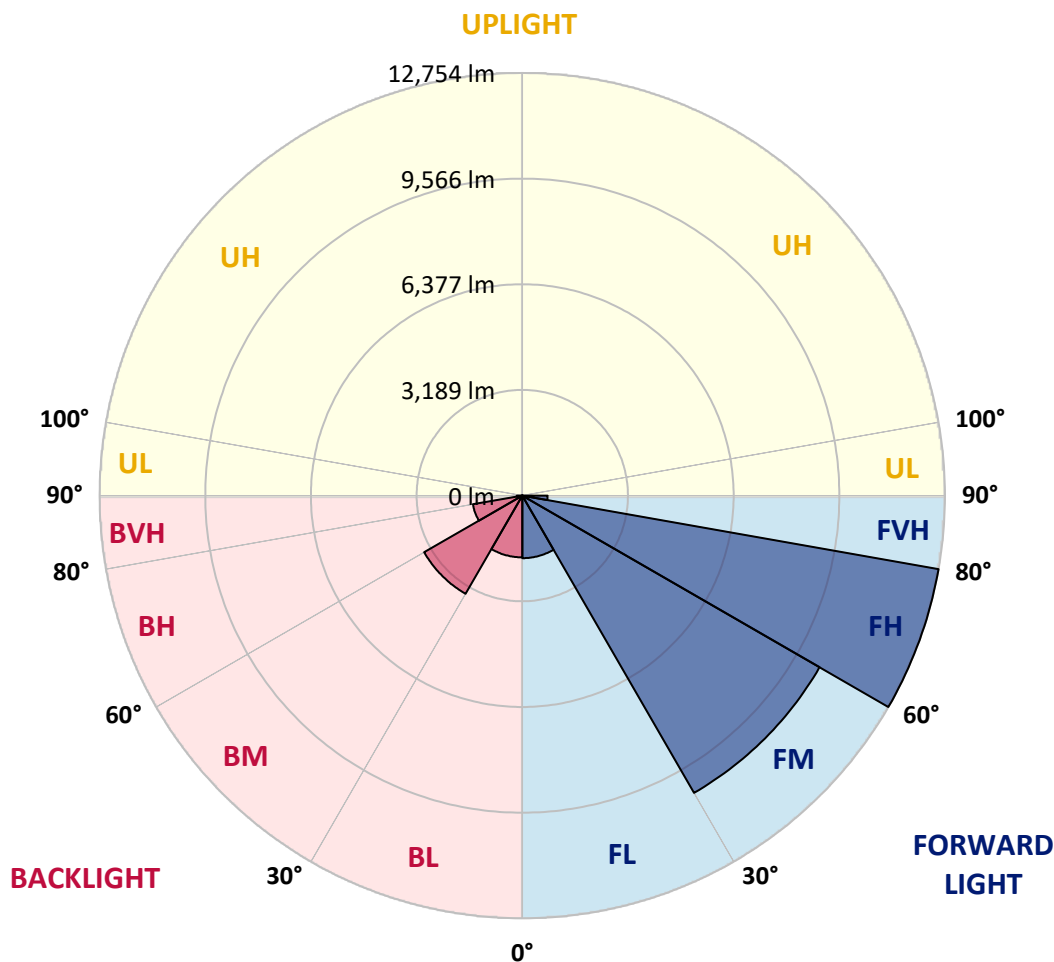
CATALOG NUMBER: GALN-SA5C-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1886.4	5.8			
FM	(30°-60°)	10355.5	31.6			
FH	(60°-80°)	12754.5	39.0			G5
FVH	(80°-90°)	764.4	2.3			G5
BL	(0°-30°)	1862.8	5.7	B3/2500		
BM	(30°-60°)	3420.1	10.5	B3/5000		
BH	(60°-80°)	1512.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	168.7	0.5			G2/225
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





REPORT NUMBER: P459061

CATALOG NUMBER: GALN-SA5C-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5
2.5°	4617.6	4641.1	4653.8	4699.1	4710.0	4724.5	4762.6	4813.4	4878.6	4936.6	4987.4
5°	4233.2	4269.5	4291.2	4331.1	4409.1	4416.3	4517.8	4633.9	4766.2	4889.5	4991.0
7.5°	3868.8	3908.7	3926.8	3999.3	4102.7	4119.0	4267.7	4450.8	4671.9	4858.7	5014.6
10°	3595.1	3615.0	3654.9	3709.3	3832.6	3843.4	4037.4	4282.2	4568.6	4844.2	5054.5
12.5°	3446.4	3457.3	3466.3	3524.4	3645.8	3662.1	3865.2	4142.6	4487.0	4855.1	5119.7
15°	3468.2	3471.8	3431.9	3442.8	3540.7	3564.2	3765.5	4050.1	4436.3	4882.2	5217.6
17.5°	3651.3	3638.6	3540.7	3489.9	3558.8	3569.7	3745.5	4013.8	4412.7	4933.0	5319.2
20°	3939.5	3921.4	3752.8	3640.4	3680.3	3689.3	3810.8	4041.0	4436.3	5016.4	5476.9
22.5°	4298.5	4291.2	4035.6	3899.6	3897.8	3897.8	3961.3	4138.9	4507.0	5130.6	5641.9
25°	4800.7	4762.6	4429.0	4253.2	4204.2	4200.6	4193.3	4300.3	4597.6	5252.1	5837.7
27.5°	5315.5	5250.3	4952.9	4682.8	4577.7	4565.0	4517.8	4528.7	4713.6	5389.9	6060.7
30°	5777.8	5736.1	5456.9	5157.8	5032.7	5003.7	4873.2	4813.4	4907.6	5638.2	6416.0
32.5°	6131.4	6106.0	5888.4	5616.5	5431.6	5426.1	5235.8	5186.8	5210.4	5939.2	6822.1
35°	6417.8	6426.9	6316.3	6080.6	5868.5	5837.7	5710.8	5649.1	5580.2	6374.3	7333.3
37.5°	6809.4	6829.3	6822.1	6619.0	6359.8	6367.0	6338.0	6236.5	6053.4	6860.2	7900.8
40°	7240.9	7255.4	7253.6	7175.6	7039.6	7046.9	7036.0	6920.0	6646.2	7478.4	8531.7
42.5°	7837.3	7768.4	7589.0	7666.9	7746.7	7781.1	7855.5	7744.9	7369.6	8138.3	9124.5
45°	8504.5	8374.0	7967.9	8004.1	8299.6	8364.9	8774.6	8622.3	8154.6	8896.1	9822.5
47.5°	8925.1	8796.4	8453.7	8446.5	8838.1	8901.5	9626.7	9570.5	8868.9	9713.7	10674.6
50°	9300.4	9282.2	8896.1	8988.6	9371.1	9465.4	10554.9	10502.4	9581.4	10678.2	11602.8
52.5°	9857.0	9710.1	9401.9	9592.3	10098.1	10221.4	11475.9	11321.8	10235.9	11530.3	12503.8
55°	10107.1	10072.7	10054.6	10219.5	10913.9	11002.7	12371.5	12018.0	10794.2	12251.8	13189.1
57.5°	10776.1	10712.7	10892.1	11004.5	11874.8	12010.7	13307.0	12745.0	11283.7	12824.7	13522.7
60°	11642.7	11608.2	11773.2	11976.3	12948.0	13154.7	14373.0	13365.0	11677.1	13113.0	13339.6
62.5°	12937.1	12933.5	12902.7	13337.8	14469.1	14659.4	15596.7	13968.7	11738.8	12897.2	12393.3
65°	14793.6	14728.3	14460.0	14935.0	16361.8	16584.8	16871.2	14305.9	11367.1	11789.5	10435.3
67.5°	16735.2	16731.6	16514.1	17130.5	19079.4	19309.6	18464.8	14231.6	10335.6	9550.6	7411.3
70°	18345.1	18267.2	18544.6	20187.1	22551.2	22817.7	19858.9	13355.9	8232.6	6307.2	4403.6
72.5°	18731.3	18734.9	19311.4	22543.9	25885.1	25926.8	20361.1	10825.1	5509.5	3479.0	2202.7
74°	17542.0	17572.8	18466.6	22661.7	26507.0	26318.4	19077.6	8508.1	3725.6	2271.6	1588.1
75°	16011.9	15817.9	17110.5	21876.7	25861.6	25658.5	17574.6	6827.5	2842.7	1814.8	1390.5
77.5°	8560.7	8758.3	10752.5	16325.5	21010.2	20776.3	11916.4	3274.2	1535.6	1263.6	1000.7
80°	3047.6	3361.2	4724.5	8542.6	13470.1	13542.7	5687.2	1501.1	1080.5	931.9	707.0
82.5°	1243.7	1278.1	2028.7	3790.9	6840.2	6905.5	2322.4	892.0	772.3	641.8	422.4
85°	485.9	500.4	897.4	1704.2	2918.8	3109.2	803.1	471.4	475.0	368.0	215.7
87.5°	163.2	184.9	368.0	567.4	991.7	971.7	233.9	139.6	170.4	159.5	67.1
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: P459061
 CATALOG NUMBER: GALN-SA5C-735-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5	4996.5
2.5°	5012.8	5047.2	5070.8	5096.2	5119.7	5127.0	5121.6	5137.9	5139.7	5141.5	5143.3
5°	5041.8	5088.9	5134.2	5159.6	5170.5	5161.4	5130.6	5114.3	5099.8	5088.9	5092.5
7.5°	5081.7	5148.7	5190.4	5201.3	5172.3	5130.6	5054.5	4994.6	4956.6	4931.2	4929.4
10°	5143.3	5208.6	5243.0	5212.2	5132.4	5030.9	4911.3	4798.8	4713.6	4688.3	4686.4
12.5°	5221.3	5295.6	5293.8	5203.1	5063.5	4882.2	4688.3	4557.7	4441.7	4383.7	4407.3
15°	5322.8	5379.0	5326.4	5163.3	4942.1	4693.7	4454.4	4276.7	4146.2	4084.6	4088.2
17.5°	5440.6	5489.6	5350.0	5092.5	4771.7	4452.6	4175.2	4006.6	3903.3	3857.9	3854.3
20°	5587.5	5602.0	5350.0	4969.3	4552.3	4171.6	3906.9	3789.0	3731.0	3707.5	3714.7
22.5°	5745.2	5716.2	5321.0	4795.2	4264.0	3877.9	3700.2	3647.6	3618.6	3615.0	3618.6
25°	5922.9	5841.3	5261.1	4559.5	3963.1	3624.1	3520.7	3529.8	3535.2	3535.2	3547.9
27.5°	6140.4	5977.3	5161.4	4262.2	3611.4	3388.4	3359.4	3422.8	3451.8	3457.3	3466.3
30°	6426.9	6125.9	4996.5	3890.6	3312.2	3176.3	3227.0	3312.2	3344.9	3364.8	3361.2
32.5°	6767.7	6289.1	4773.5	3518.9	3071.1	3027.6	3089.2	3176.3	3212.5	3223.4	3208.9
35°	7168.4	6474.0	4479.8	3170.8	2860.8	2886.2	2958.7	2985.9	3018.5	3018.5	3025.8
37.5°	7599.8	6622.7	4120.8	2851.8	2697.7	2790.1	2842.7	2817.3	2802.8	2784.7	2793.7
40°	8038.6	6733.3	3654.9	2536.3	2534.5	2690.4	2704.9	2632.4	2574.4	2556.2	2547.2
42.5°	8421.1	6802.1	3234.3	2291.6	2380.4	2592.5	2603.4	2487.4	2394.9	2340.5	2322.4
45°	8872.5	6881.9	2822.7	2088.5	2237.2	2514.5	2541.7	2385.8	2249.9	2135.6	2106.6
47.5°	9490.7	7063.2	2498.2	1930.8	2133.8	2465.6	2503.7	2302.4	2123.0	1974.3	1950.7
50°	10188.7	7311.6	2246.2	1823.8	2054.1	2422.1	2469.2	2217.2	2005.1	1840.1	1822.0
52.5°	10828.7	7445.7	2028.7	1727.7	1976.1	2342.3	2423.9	2155.6	1889.1	1706.0	1689.7
55°	11178.6	7228.2	1814.8	1633.5	1869.1	2239.0	2360.4	2070.4	1776.7	1635.3	1611.7
57.5°	11225.7	6778.6	1620.8	1531.9	1756.7	2112.1	2242.6	1967.0	1704.2	1586.3	1566.4
60°	10861.3	6107.8	1470.3	1448.5	1642.5	1968.9	2110.3	1876.4	1629.8	1531.9	1512.0
62.5°	9954.8	5379.0	1365.1	1372.4	1526.5	1818.4	2012.4	1789.4	1559.1	1472.1	1454.0
65°	8395.7	4439.9	1263.6	1294.4	1423.2	1700.5	1923.5	1716.9	1488.4	1426.8	1410.5
67.5°	5832.2	3205.3	1180.2	1212.9	1325.3	1580.9	1820.2	1638.9	1408.7	1376.0	1350.6
70°	3228.8	1972.5	1082.3	1120.4	1223.7	1446.7	1704.2	1521.1	1292.6	1278.1	1241.9
72.5°	1696.9	1256.4	971.7	1013.4	1086.0	1274.5	1526.5	1392.3	1178.4	1116.8	1069.6
74°	1325.3	1029.7	897.4	940.9	989.9	1173.0	1421.3	1299.9	1096.8	1024.3	988.1
75°	1154.8	917.3	834.0	890.2	933.7	1104.1	1339.8	1234.6	1051.5	982.6	950.0
77.5°	815.8	687.1	681.7	748.7	772.3	968.1	1207.4	1124.0	937.3	864.8	834.0
80°	572.9	514.9	540.3	582.0	614.6	855.7	1120.4	971.7	768.7	683.5	672.6
82.5°	373.5	337.2	386.2	424.2	435.1	630.9	904.7	737.9	560.2	455.0	422.4
85°	172.2	168.6	221.2	215.7	213.9	308.2	536.6	431.5	322.7	241.1	226.6
87.5°	43.5	41.7	54.4	45.3	54.4	47.1	48.9	12.7	1.8	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)