

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: P455391

Luminaire Tested: **GALN-SA6C-750-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-750-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34293 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

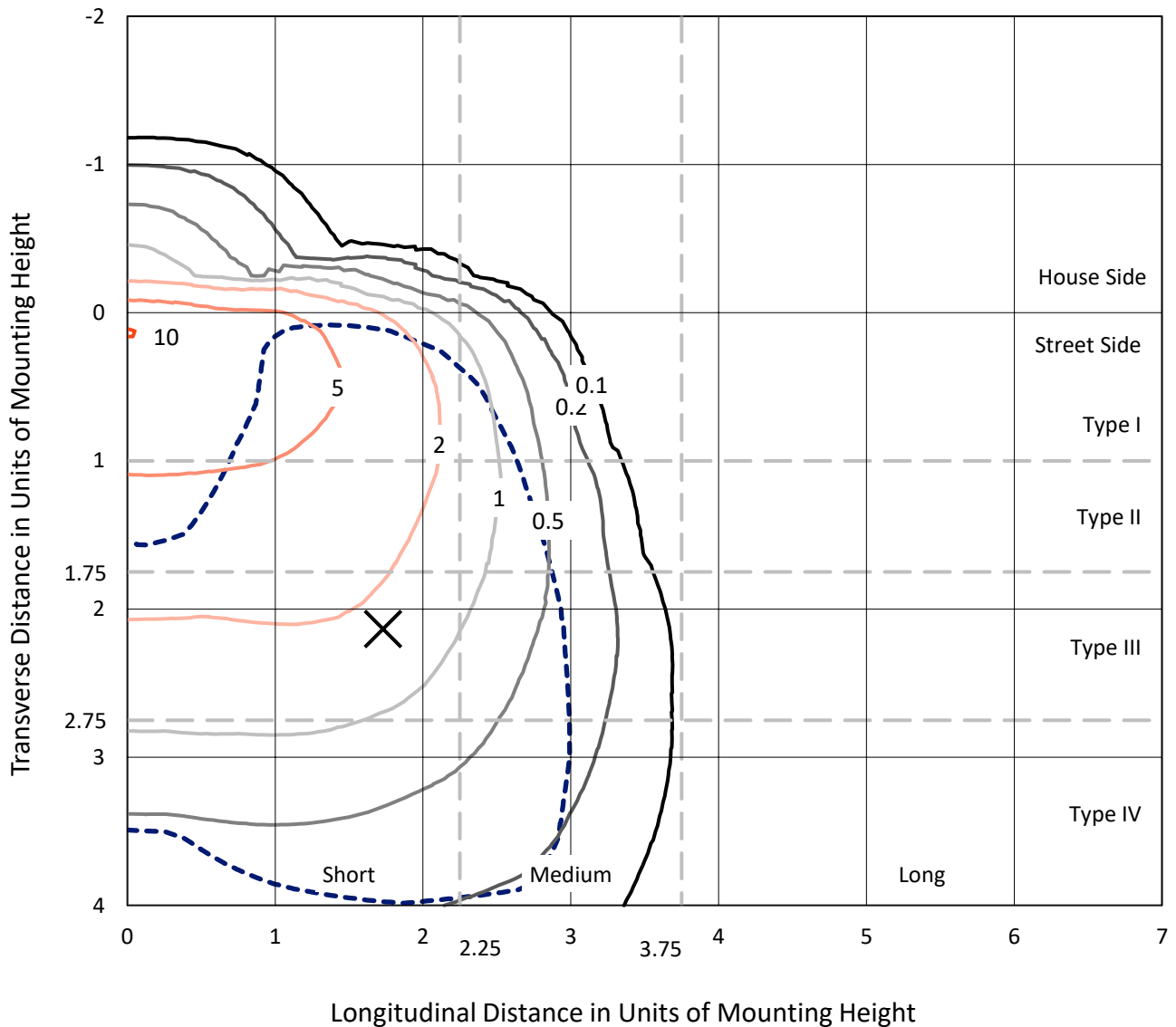
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

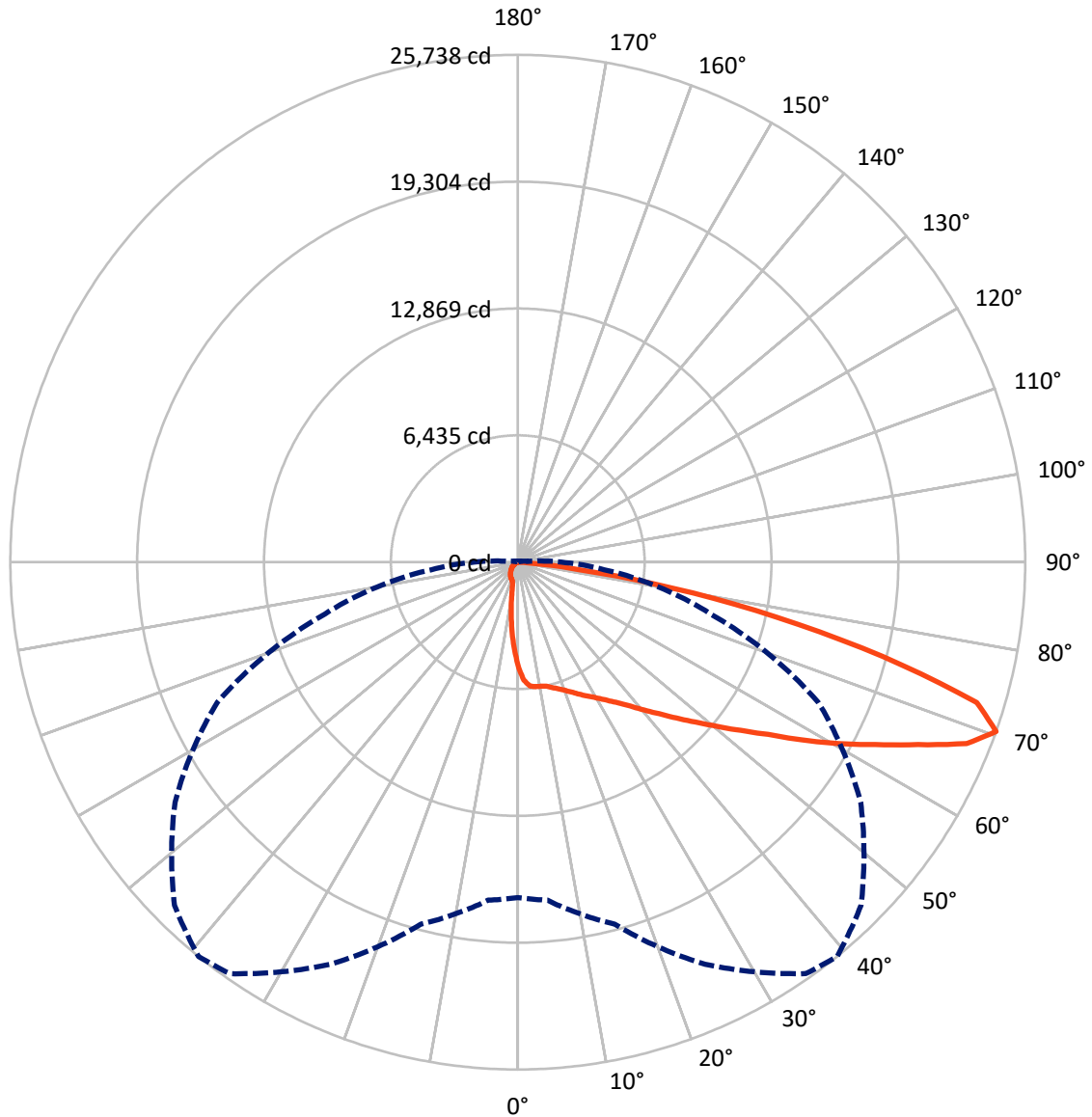
✕ Max cd
 - - - 1/2 Max cd



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 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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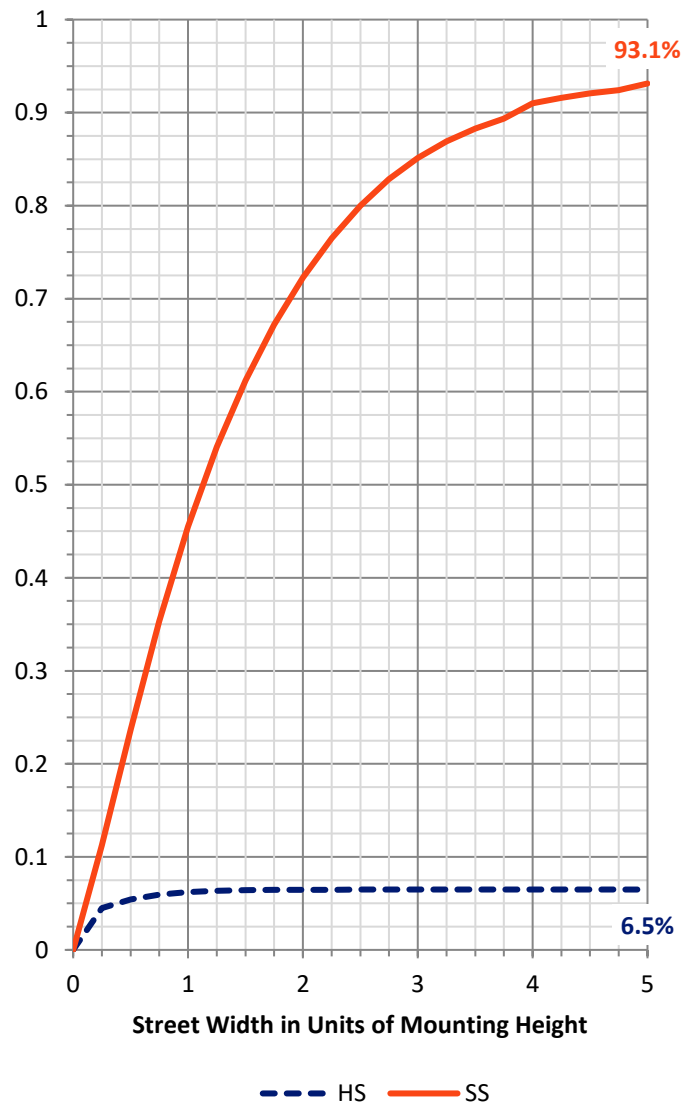
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2236.1	0.0	2236.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	32056.9	0.0	32056.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	34293.0	0.0	34293.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.4	1.3
10°-20°	1186.0	3.5
20°-30°	1986.9	5.8
30°-40°	3081.5	9.0
40°-50°	4883.2	14.2
50°-60°	7158.1	20.9
60°-70°	9175.0	26.8
70°-80°	5765.2	16.8
80°-90°	600.6	1.8
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°	34293.0	100.0
0°-180°	34293.0	100.0



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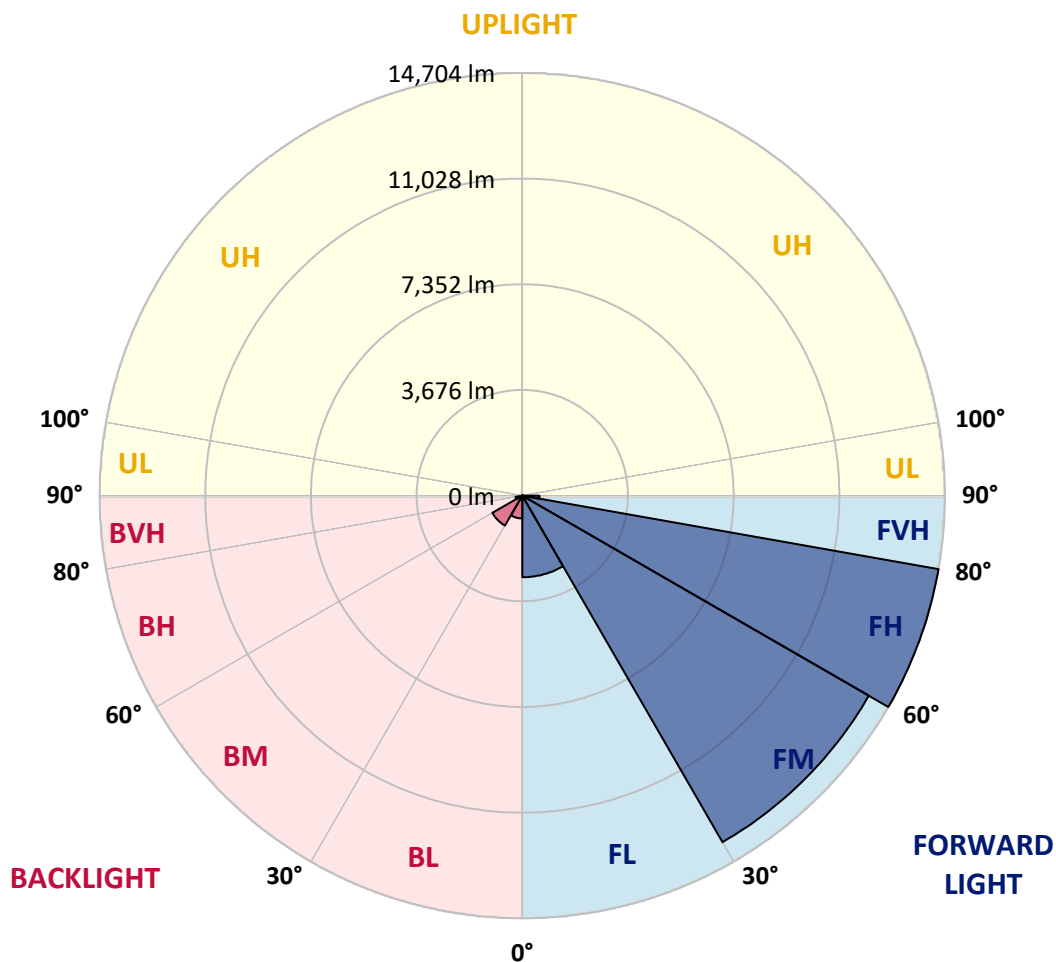
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2837.6	8.3			
FM	(30°-60°)	13919.4	40.6			
FH	(60°-80°)	14703.7	42.9			G5
FVH	(80°-90°)	596.2	1.7			G4/750
BL	(0°-30°)	791.8	2.3	B2/1000		
BM	(30°-60°)	1203.4	3.5	B2/2500		
BH	(60°-80°)	236.5	0.7	B1/500		G1/500
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9
2.5°	6182.8	6162.0	6134.4	6102.1	6010.0	5993.8	5938.5	5821.0	5680.4	5565.2	5406.2
5°	6475.4	6487.0	6466.2	6408.6	6341.8	6302.6	6233.5	6051.4	5869.4	5636.6	5376.2
7.5°	6542.3	6565.3	6540.0	6484.7	6420.1	6378.7	6323.4	6166.7	5954.6	5689.6	5332.4
10°	6535.4	6563.0	6546.9	6496.2	6443.2	6404.0	6344.1	6219.7	6049.1	5770.3	5346.3
12.5°	6523.8	6560.7	6558.4	6533.1	6489.3	6459.3	6422.4	6311.8	6152.8	5887.8	5422.3
15°	6491.6	6537.7	6579.1	6599.9	6602.2	6602.2	6556.1	6438.6	6286.5	6042.2	5521.4
17.5°	6505.4	6558.4	6662.1	6722.0	6763.5	6758.9	6710.5	6583.8	6415.5	6201.2	5625.1
20°	6590.7	6662.1	6807.3	6927.1	6968.6	6954.8	6890.2	6742.8	6551.5	6337.2	5726.5
22.5°	6800.4	6864.9	7046.9	7187.5	7217.5	7180.6	7088.4	6887.9	6715.1	6484.7	5848.6
25°	7113.8	7189.8	7358.0	7464.0	7464.0	7443.3	7314.3	7079.2	6899.5	6689.8	6007.6
27.5°	7494.0	7558.5	7724.4	7818.9	7763.6	7703.7	7574.7	7291.2	7118.4	6947.9	6198.9
30°	7878.8	7920.3	8095.5	8136.9	8079.3	8003.3	7865.0	7581.6	7429.5	7298.1	6475.4
32.5°	8242.9	8332.8	8478.0	8468.8	8390.4	8353.6	8226.8	7924.9	7839.7	7825.8	6862.6
35°	8607.0	8676.2	8805.2	8837.5	8768.4	8761.4	8669.3	8445.7	8448.0	8537.9	7466.4
37.5°	8920.4	8982.7	9134.8	9206.2	9220.0	9254.6	9217.7	9070.2	9279.9	9526.5	8266.0
40°	9183.1	9270.7	9464.3	9588.7	9731.6	9858.3	9865.3	9897.5	10319.2	10743.2	9309.9
42.5°	9388.2	9510.4	9791.5	10022.0	10349.2	10510.5	10639.5	10817.0	11526.8	12160.5	10540.5
45°	9655.6	9796.1	10146.4	10508.2	11019.8	11284.8	11464.5	11939.2	12946.3	13810.4	11803.3
47.5°	10098.0	10171.7	10528.9	11056.7	11729.5	12107.5	12457.7	13176.7	14469.5	15243.8	12854.1
50°	10667.2	10715.6	10985.2	11718.0	12589.1	13086.9	13725.2	14570.9	16050.3	16432.9	13448.6
52.5°	11296.3	11312.4	11515.2	12446.2	13552.3	14179.2	14893.5	15937.4	17338.5	17280.9	13842.7
55°	12026.8	12003.8	12176.6	13236.6	14693.0	15409.7	16241.6	17336.2	18456.2	17882.4	14068.5
57.5°	12863.3	12801.1	12969.3	14285.2	16154.0	17011.3	17857.0	18543.7	19322.6	18387.0	14176.8
60°	13739.0	13614.6	13815.1	15462.7	17875.5	18688.9	19391.8	19576.1	20235.2	18788.0	13990.2
62.5°	14437.2	14439.6	14812.9	16716.3	19645.3	20357.3	20730.6	20896.6	21021.0	18700.4	13008.5
65°	15527.2	15564.1	16161.0	18456.2	21693.9	22311.5	22567.3	22028.0	21055.6	17612.8	11533.7
67.5°	16651.8	16769.3	17861.6	20852.8	24060.5	24558.3	24228.8	22247.0	20115.4	15130.9	8745.3
70°	17018.2	17211.8	19011.5	22502.7	25480.1	25738.2	24622.8	21226.1	16815.4	10116.4	4401.5
72.5°	15594.1	15907.5	18350.2	21901.3	24574.4	24350.9	22030.3	17801.7	10690.2	3841.5	1343.5
75°	10996.7	11135.0	15250.7	18168.1	19765.1	19131.4	16757.8	11476.1	4396.9	1078.5	460.9
77.5°	5678.1	5611.3	9070.2	12054.5	14096.2	13439.4	10973.7	5940.8	1666.1	449.4	285.7
80°	2935.8	2984.2	3924.4	6316.4	8604.7	7918.0	5850.9	2753.8	887.2	248.9	218.9
82.5°	1645.4	1544.0	2256.0	2758.4	4023.5	3154.8	2244.5	1949.5	387.1	149.8	207.4
85°	299.6	313.4	1237.5	1491.0	1396.5	887.2	723.6	1302.0	112.9	83.0	145.2
87.5°	4.6	4.6	239.7	428.6	271.9	124.4	228.1	186.7	23.0	32.3	25.3
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°	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9	5350.9
2.5°	5325.5	5238.0	5074.4	4913.0	4707.9	4539.7	4426.8	4309.3	4189.5	4198.7	4226.3
5°	5233.4	5081.3	4758.6	4417.6	4090.4	3795.4	3505.0	3244.6	3138.6	3041.8	3046.5
7.5°	5141.2	4926.9	4454.5	3919.8	3424.4	2922.0	2557.9	2258.3	2099.3	1979.5	1944.9
10°	5099.7	4816.3	4175.6	3440.5	2737.7	2189.2	1721.4	1477.1	1288.2	1228.3	1244.4
12.5°	5118.1	4761.0	3924.4	3007.3	2170.8	1525.5	1198.3	1073.9	1032.4	1025.5	1020.9
15°	5152.7	4721.8	3677.9	2528.0	1594.7	1133.8	1007.0	984.0	979.4	974.8	977.1
17.5°	5198.8	4687.2	3415.2	2078.6	1223.7	990.9	954.0	942.5	940.2	940.2	940.2
20°	5244.9	4648.0	3122.5	1677.6	1020.9	935.6	912.6	905.6	903.3	903.3	901.0
22.5°	5297.9	4613.5	2825.2	1318.1	940.2	896.4	875.7	871.1	868.8	866.5	866.5
25°	5373.9	4569.7	2509.5	1078.5	889.5	859.6	838.8	834.2	831.9	822.7	825.0
27.5°	5475.3	4537.4	2184.6	931.0	843.4	813.5	799.6	792.7	788.1	781.2	783.5
30°	5613.6	4509.8	1838.9	850.3	790.4	765.1	751.2	746.6	742.0	735.1	735.1
32.5°	5853.2	4521.3	1474.8	785.8	742.0	712.1	698.2	693.6	689.0	682.1	682.1
35°	6212.7	4588.1	1179.9	730.5	684.4	654.5	640.6	640.6	633.7	624.5	622.2
37.5°	6800.4	4758.6	947.1	677.5	629.1	601.5	585.3	580.7	573.8	560.0	557.7
40°	7494.0	5023.7	797.3	624.5	578.4	550.8	536.9	523.1	504.7	490.8	488.5
42.5°	8365.1	5295.6	691.3	571.5	530.0	504.7	488.5	465.5	437.8	419.4	417.1
45°	9273.0	5544.5	619.9	523.1	483.9	463.2	444.8	407.9	373.3	350.3	348.0
47.5°	9950.5	5590.5	562.3	477.0	444.8	424.0	398.7	352.6	306.5	285.7	278.8
50°	10270.8	5367.0	502.4	430.9	405.6	382.5	350.3	297.3	246.6	221.2	216.6
52.5°	10383.8	4979.9	454.0	389.4	366.4	338.8	299.6	239.7	193.6	168.2	165.9
55°	10337.7	4491.3	410.2	350.3	320.3	288.1	248.9	191.3	142.9	122.1	117.5
57.5°	10095.7	3869.1	366.4	311.1	274.2	242.0	198.2	142.9	96.8	78.4	76.0
60°	9443.6	3021.1	322.6	267.3	232.7	198.2	156.7	101.4	59.9	43.8	43.8
62.5°	8342.0	2242.2	281.1	223.5	195.9	159.0	110.6	64.5	32.3	23.0	20.7
65°	6970.9	1654.6	235.1	189.0	163.6	124.4	78.4	39.2	16.1	6.9	4.6
67.5°	4864.6	1020.9	195.9	154.4	133.7	89.9	48.4	16.1	6.9	0.0	0.0
70°	2209.9	486.2	149.8	117.5	101.4	64.5	25.3	9.2	4.6	0.0	0.0
72.5°	686.7	255.8	106.0	85.3	69.1	41.5	13.8	6.9	4.6	0.0	0.0
75°	318.0	163.6	66.8	46.1	39.2	20.7	9.2	4.6	2.3	0.0	0.0
77.5°	237.4	126.7	39.2	25.3	20.7	13.8	6.9	4.6	2.3	0.0	0.0
80°	207.4	64.5	23.0	16.1	11.5	9.2	4.6	2.3	0.0	0.0	0.0
82.5°	186.7	32.3	13.8	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0
85°	101.4	18.4	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	18.4	9.2	6.9	4.6	4.6	2.3	2.3	2.3	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)