

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: P651368

Luminaire Tested: **GALN-SA4D-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18895.6 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

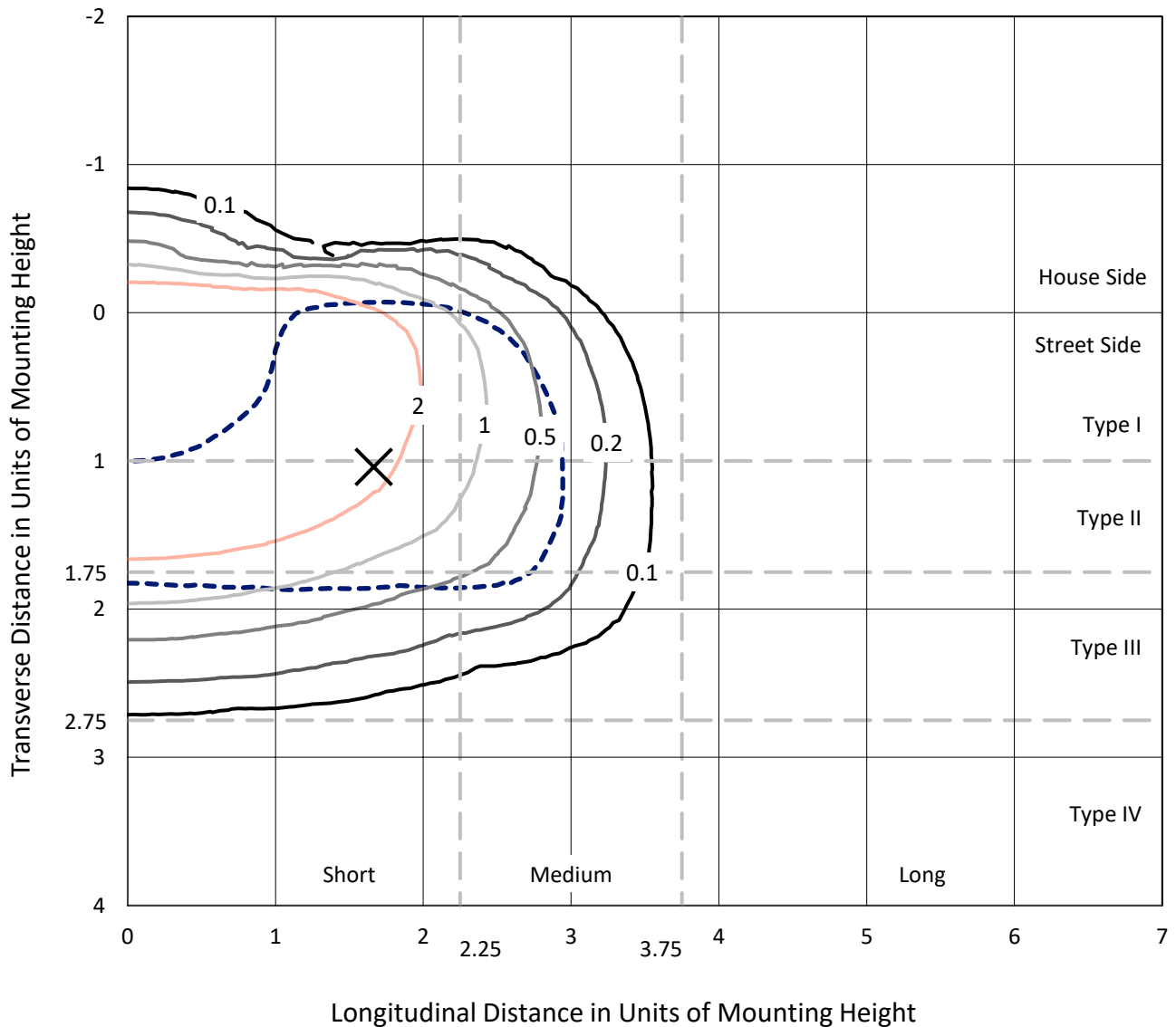
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651368
 CATALOG NUMBER: GALN-SA4D-840-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

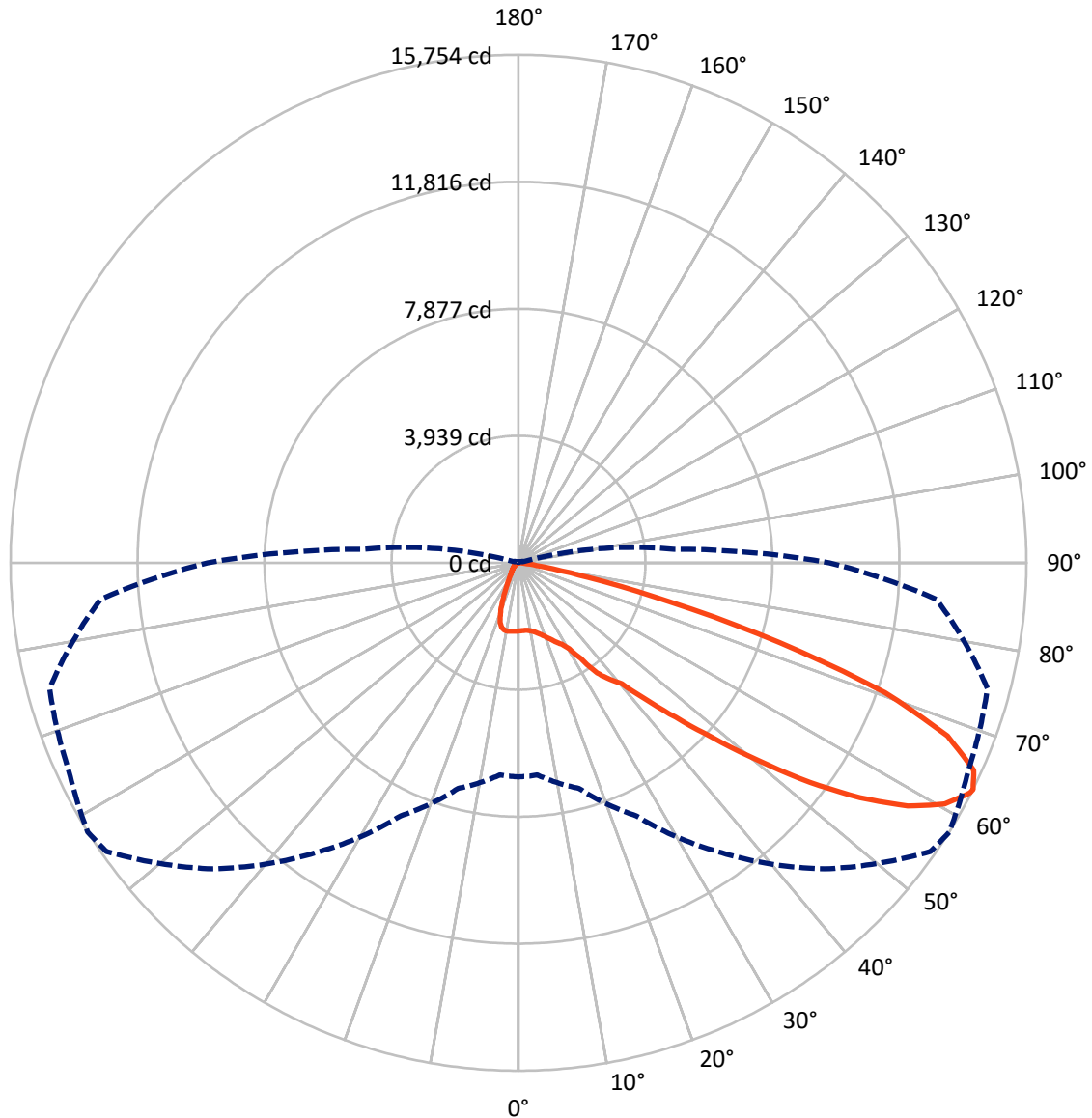
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

REPORT NUMBER: P651368
CATALOG NUMBER: GALN-SA4D-840-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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 CATALOG NUMBER: GALN-SA4D-840-U-T3-HSS

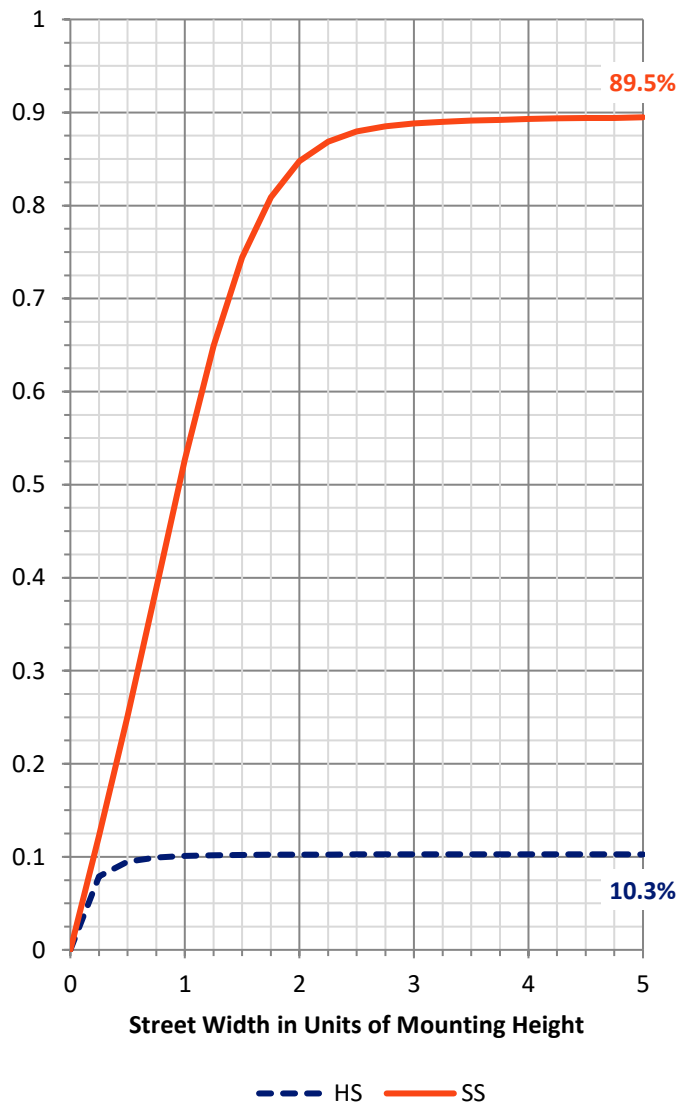
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1956.5	0.0	1956.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16939.1	0.0	16939.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	18895.6	0.0	18895.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	1.0
10°-20°	539.4	2.9
20°-30°	936.1	5.0
30°-40°	1720.2	9.1
40°-50°	3238.2	17.1
50°-60°	5538.8	29.3
60°-70°	5303.4	28.1
70°-80°	1352.4	7.2
80°-90°	69.1	0.4
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°	18895.6	100.0
0°-180°	18895.6	100.0

Coefficient of Utilization



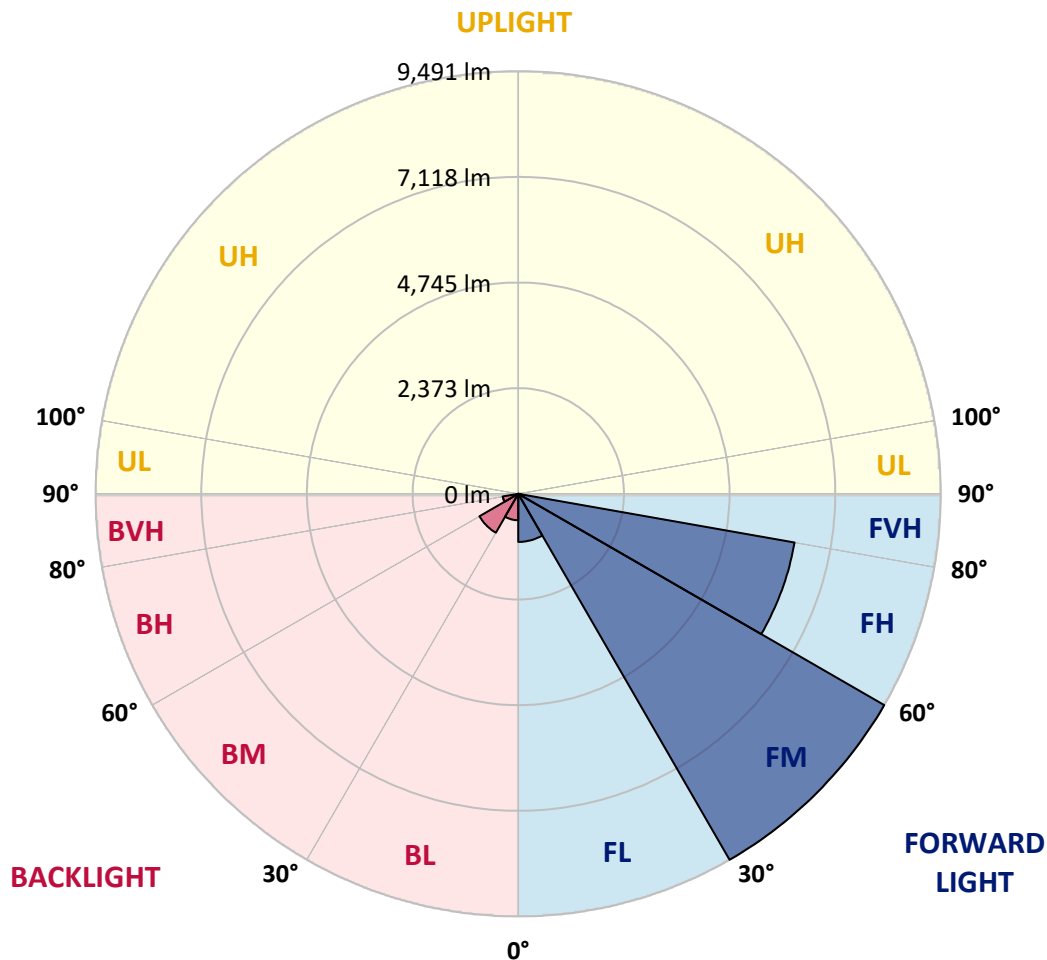
REPORT NUMBER: P651368
 CATALOG NUMBER: GALN-SA4D-840-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1080.1	5.7			
FM (30°-60°)	9490.9	50.2			
FH (60°-80°)	6301.6	33.3			G3/7500
FVH (80°-90°)	66.5	0.4			G1/100
BL (0°-30°)	593.4	3.1	B2/1000		
BM (30°-60°)	1006.3	5.3	B2/2500		
BH (60°-80°)	354.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.7	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-G3

Type III Short





REPORT NUMBER: P651368

CATALOG NUMBER: GALN-SA4D-840-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5
2.5°	2062.8	2069.9	2077.0	2079.9	2089.8	2099.8	2106.9	2105.4	2116.9	2122.5	2122.5
5°	1980.3	1980.3	1998.8	2015.9	2044.3	2072.7	2099.8	2105.4	2126.8	2146.7	2153.9
7.5°	1910.6	1914.9	1929.1	1960.4	1998.8	2048.6	2102.7	2115.5	2152.5	2196.5	2215.0
10°	1877.9	1880.7	1899.2	1931.9	1980.3	2048.6	2123.9	2148.2	2205.0	2274.7	2300.4
12.5°	1870.7	1875.0	1893.5	1930.5	1985.9	2068.5	2171.0	2196.5	2279.0	2368.7	2407.1
15°	1883.6	1886.4	1904.9	1944.7	2005.9	2104.0	2233.5	2269.1	2367.2	2471.1	2520.9
17.5°	1929.1	1926.2	1939.0	1971.7	2040.0	2148.2	2308.9	2351.6	2466.8	2609.1	2641.8
20°	2122.5	2104.0	2092.7	2064.2	2091.2	2210.7	2400.0	2462.5	2604.8	2749.9	2772.7
22.5°	2539.4	2498.1	2417.0	2306.1	2220.7	2296.1	2509.5	2582.0	2765.5	2907.8	2907.8
25°	3070.0	3017.3	2936.3	2694.5	2485.3	2437.0	2633.3	2724.3	2940.6	3084.2	3037.3
27.5°	3734.4	3693.1	3535.2	3253.5	2933.4	2683.0	2777.0	2860.9	3095.6	3269.2	3171.0
30°	4275.0	4255.0	4125.6	3873.8	3521.0	3155.3	3044.4	3099.9	3301.9	3502.5	3401.5
32.5°	4731.6	4731.6	4599.3	4364.6	4034.5	3710.2	3498.2	3538.1	3731.5	3963.4	3775.7
35°	5233.8	5216.7	5110.1	4886.7	4516.8	4230.9	4144.1	4198.2	4373.1	4545.3	4082.9
37.5°	5761.6	5755.9	5645.0	5428.7	5127.2	4767.2	4563.8	4578.0	4667.6	4772.9	4442.8
40°	6334.9	6343.5	6198.3	6064.6	5780.1	5411.7	5021.9	4932.2	5016.1	5313.5	5107.2
42.5°	7012.1	6992.2	6929.6	6747.5	6518.4	6297.9	5829.9	5797.2	5871.2	6189.8	5966.5
45°	7798.8	7827.3	7719.1	7618.1	7464.5	7281.0	6889.7	6832.9	6913.9	7409.0	7091.7
47.5°	8586.9	8559.9	8629.6	8611.1	8693.6	8557.1	8211.4	8094.7	8289.6	8759.1	8292.4
50°	9187.3	9217.1	9362.3	9574.2	9928.4	10005.3	9673.8	9634.0	9720.8	10022.4	9366.6
52.5°	9577.1	9676.6	9904.3	10449.2	11087.9	11584.4	11332.6	11311.3	11275.7	11356.8	10393.7
55°	9831.7	9932.7	10230.1	11032.4	12132.1	12938.7	12951.5	12860.5	12625.8	12567.4	11353.9
57.5°	9675.2	9695.1	10119.1	11191.8	12711.1	13904.7	14322.9	14231.9	13798.0	13577.4	12201.8
60°	8696.4	8737.7	9328.1	10588.5	12459.3	14220.5	15231.9	15190.7	14715.6	14466.6	12861.9
62.5°	6962.3	7081.8	7689.3	9094.8	11288.5	13688.5	15600.5	15717.1	15347.2	15004.4	13069.6
63°	6643.6	6605.2	7246.8	8659.4	10978.3	13425.2	15606.1	15754.1	15375.7	15055.6	13012.7
65°	4918.0	5033.2	5450.0	6828.6	9136.0	12200.4	15254.7	15516.5	15270.4	14829.4	12382.5
67.5°	2761.3	2755.6	3216.6	4468.5	6394.7	9570.0	13793.7	14347.1	14295.9	13307.1	10264.2
70°	1351.5	1372.8	1562.1	2316.0	3708.7	6602.4	11462.1	12059.5	12078.0	10451.9	7097.5
72.5°	611.7	621.7	756.8	1128.1	1906.3	3515.3	7898.4	8468.9	8363.6	6660.7	3919.3
75°	322.9	344.3	416.8	567.6	919.0	1449.6	4296.3	4848.3	4627.8	3043.0	1442.6
77.5°	239.0	246.1	283.1	361.4	492.2	564.8	1853.6	2205.0	2065.7	1101.1	478.0
80°	175.0	180.6	210.6	256.1	310.2	287.4	698.5	801.0	718.4	374.2	146.5
82.5°	106.7	108.2	153.7	190.7	194.9	160.7	230.4	247.5	258.9	210.6	79.6
85°	38.4	48.4	103.9	138.0	115.2	81.1	96.7	106.7	116.6	133.7	46.9
87.5°	4.3	5.7	49.8	66.9	32.7	29.9	35.6	39.9	42.6	49.8	22.8
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: P651368
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5	2115.5
2.5°	2128.2	2134.0	2129.7	2122.5	2121.1	2116.9	2108.3	2108.3	2108.3	2111.2	2108.3
5°	2159.5	2163.8	2153.9	2139.6	2123.9	2104.0	2082.7	2069.9	2068.5	2065.7	2058.5
7.5°	2219.3	2224.9	2202.2	2168.1	2125.4	2077.0	2031.5	1988.8	1968.9	1953.2	1953.2
10°	2306.1	2311.7	2266.2	2205.0	2119.7	2021.5	1913.4	1815.3	1738.4	1702.9	1694.4
12.5°	2409.9	2412.7	2337.4	2230.7	2089.8	1900.7	1670.1	1455.4	1306.0	1237.7	1230.6
15°	2523.8	2503.8	2404.3	2240.6	2004.4	1651.6	1253.3	990.1	835.1	789.5	806.6
17.5°	2639.0	2602.0	2455.5	2224.9	1812.4	1253.3	842.2	675.7	627.4	614.6	614.6
20°	2747.0	2695.8	2492.4	2156.7	1479.5	863.5	624.5	584.7	576.2	567.6	569.0
22.5°	2855.2	2777.0	2525.2	2004.4	1102.6	617.4	559.1	546.3	534.9	523.5	522.1
25°	2960.5	2852.3	2538.0	1722.8	751.2	530.7	510.7	493.7	470.9	458.1	455.2
27.5°	3070.0	2943.4	2529.4	1367.1	547.7	475.2	455.2	431.0	404.0	381.2	381.2
30°	3280.6	3117.0	2499.5	983.0	461.0	418.2	392.7	354.2	324.4	301.6	300.2
32.5°	3567.9	3343.1	2397.1	691.4	409.7	368.4	330.0	287.4	256.1	239.0	239.0
35°	3824.0	3570.8	2205.0	509.3	368.4	320.1	273.2	231.9	207.7	196.3	192.1
37.5°	4213.8	3903.7	1940.4	413.9	328.7	277.4	229.0	190.7	170.7	162.1	162.1
40°	4798.5	4310.5	1616.1	362.8	290.2	236.2	190.7	160.7	145.1	135.1	135.1
42.5°	5524.0	4808.4	1287.5	325.8	254.7	203.4	159.4	136.6	122.4	115.2	113.8
45°	6437.4	5333.4	991.5	291.7	226.2	173.6	135.1	115.2	101.0	96.7	98.1
47.5°	7390.5	5795.8	768.3	261.8	196.3	146.5	115.2	99.6	89.7	83.9	83.9
50°	8204.2	6114.4	583.2	227.7	173.6	123.8	101.0	89.7	81.1	78.2	76.8
52.5°	8884.2	6206.9	446.7	197.7	152.2	106.7	89.7	81.1	74.0	69.7	69.7
55°	9463.3	6125.8	349.9	166.4	128.0	92.5	79.6	72.6	64.0	59.7	58.4
57.5°	9801.9	5865.5	267.4	138.0	103.9	76.8	69.7	61.1	51.2	44.1	44.1
60°	9972.6	5487.0	204.9	113.8	79.6	61.1	56.9	45.5	35.6	29.9	28.4
62.5°	9767.7	4984.9	155.1	89.7	59.7	45.5	38.4	32.7	22.8	17.1	17.1
63°	9641.1	4839.8	149.4	85.4	55.5	42.6	35.6	29.9	19.9	15.6	14.2
65°	8789.0	4206.7	122.4	68.3	44.1	29.9	24.2	21.4	14.2	7.1	5.7
67.5°	6979.4	3218.0	96.7	51.2	31.3	21.4	14.2	12.8	4.3	0.0	0.0
70°	4718.9	2078.4	75.4	37.0	21.4	12.8	7.1	5.7	1.4	0.0	0.0
72.5°	2461.1	1065.5	58.4	27.0	12.8	8.5	4.3	1.4	0.0	0.0	0.0
75°	870.6	362.8	42.6	17.1	8.5	4.3	1.4	0.0	0.0	0.0	0.0
77.5°	263.1	135.1	27.0	12.8	5.7	2.9	0.0	0.0	0.0	0.0	0.0
80°	92.5	49.8	15.6	8.5	4.3	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	45.5	24.2	9.9	7.1	4.3	1.4	0.0	0.0	0.0	0.0	0.0
85°	25.6	15.6	8.5	7.1	4.3	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	18.5	11.4	8.5	7.1	5.7	2.9	1.4	0.0	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)