

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: P651292

Luminaire Tested: **GALN-SA3D-840-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651292  
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-SA3D-840-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1200mA 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: 15975.7 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

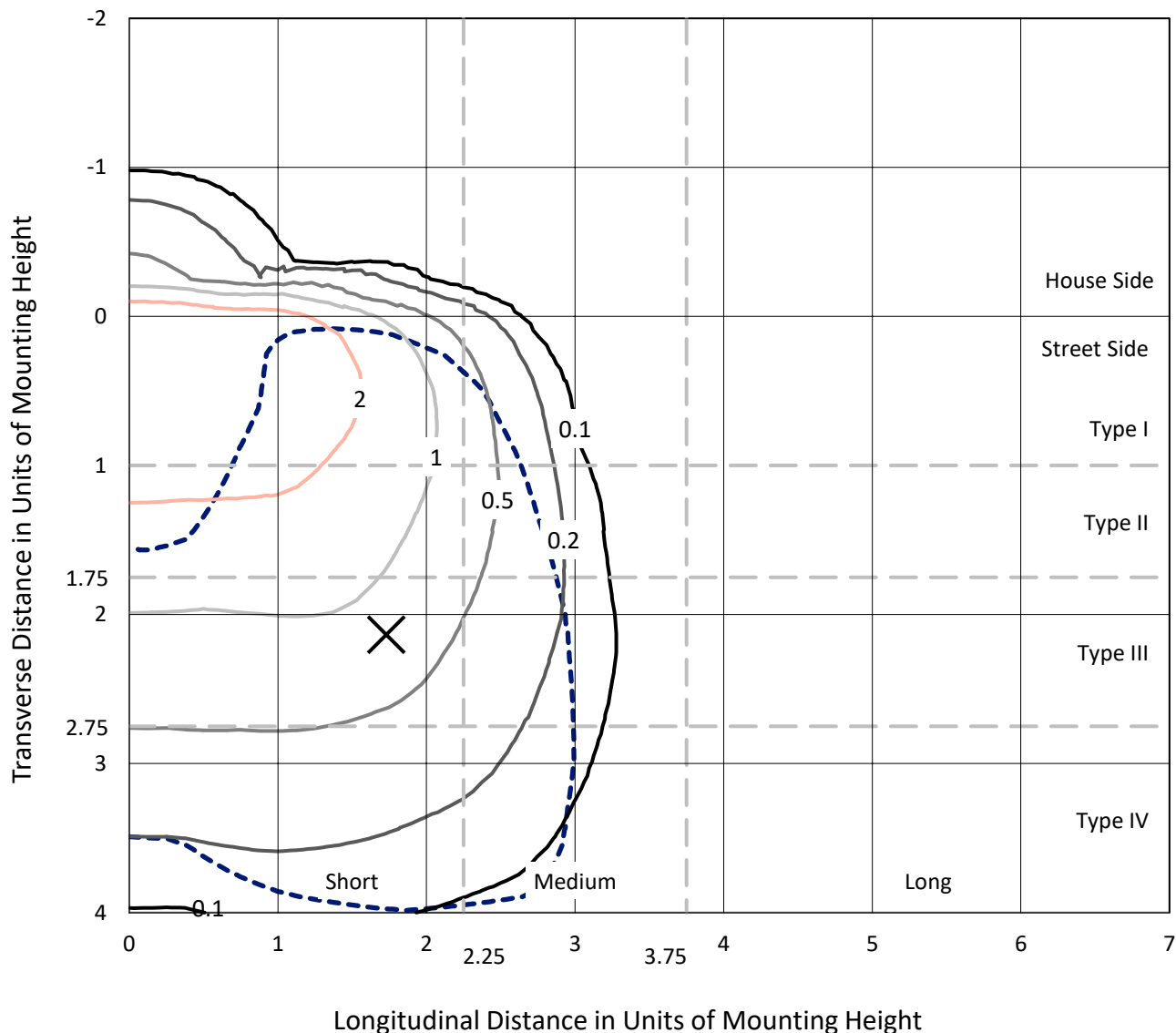
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

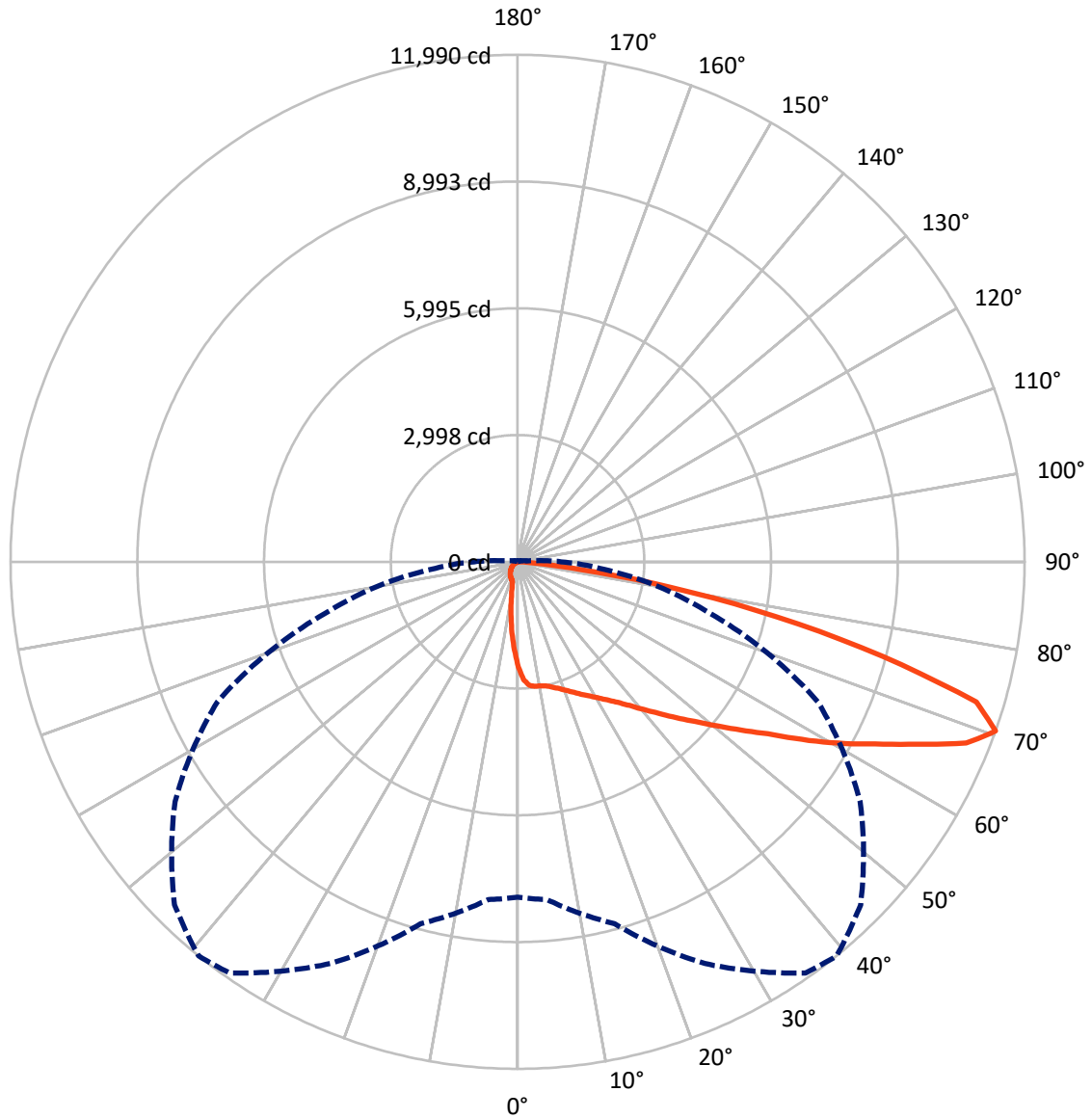
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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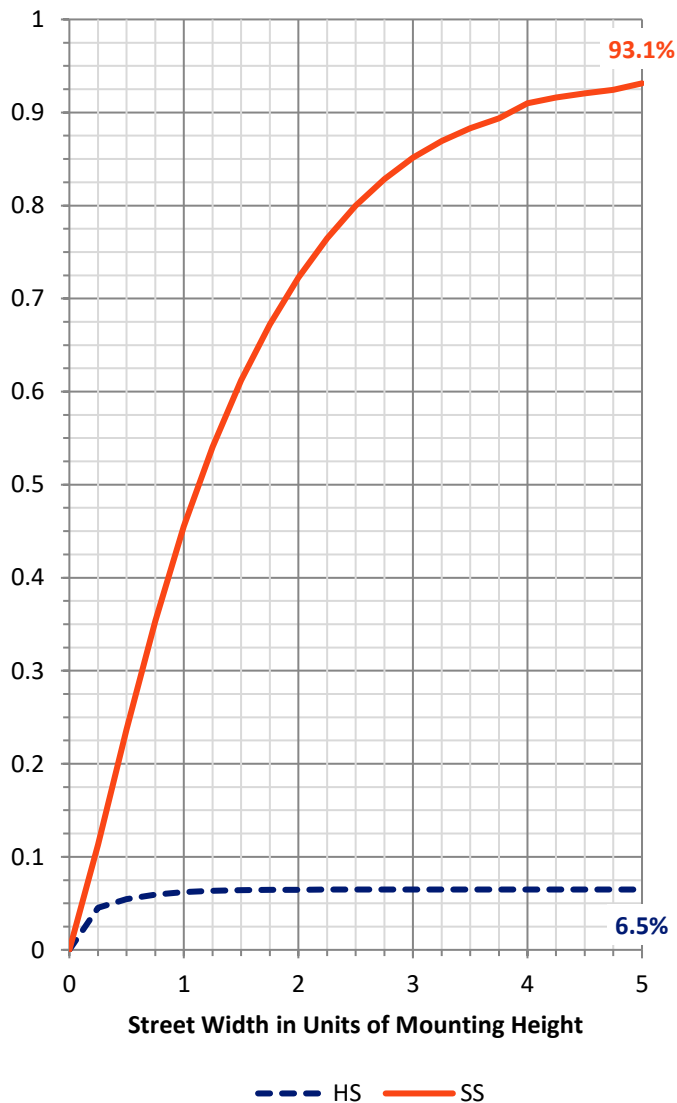
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1041.7	0.0	1041.7
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	14934.0	0.0	14934.0
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	15975.7	0.0	15975.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.6	1.3
10°-20°	552.5	3.5
20°-30°	925.6	5.8
30°-40°	1435.5	9.0
40°-50°	2274.9	14.2
50°-60°	3334.7	20.9
60°-70°	4274.2	26.8
70°-80°	2685.8	16.8
80°-90°	279.8	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°	15975.7	100.0
0°-180°	15975.7	100.0

**Coefficient of Utilization**

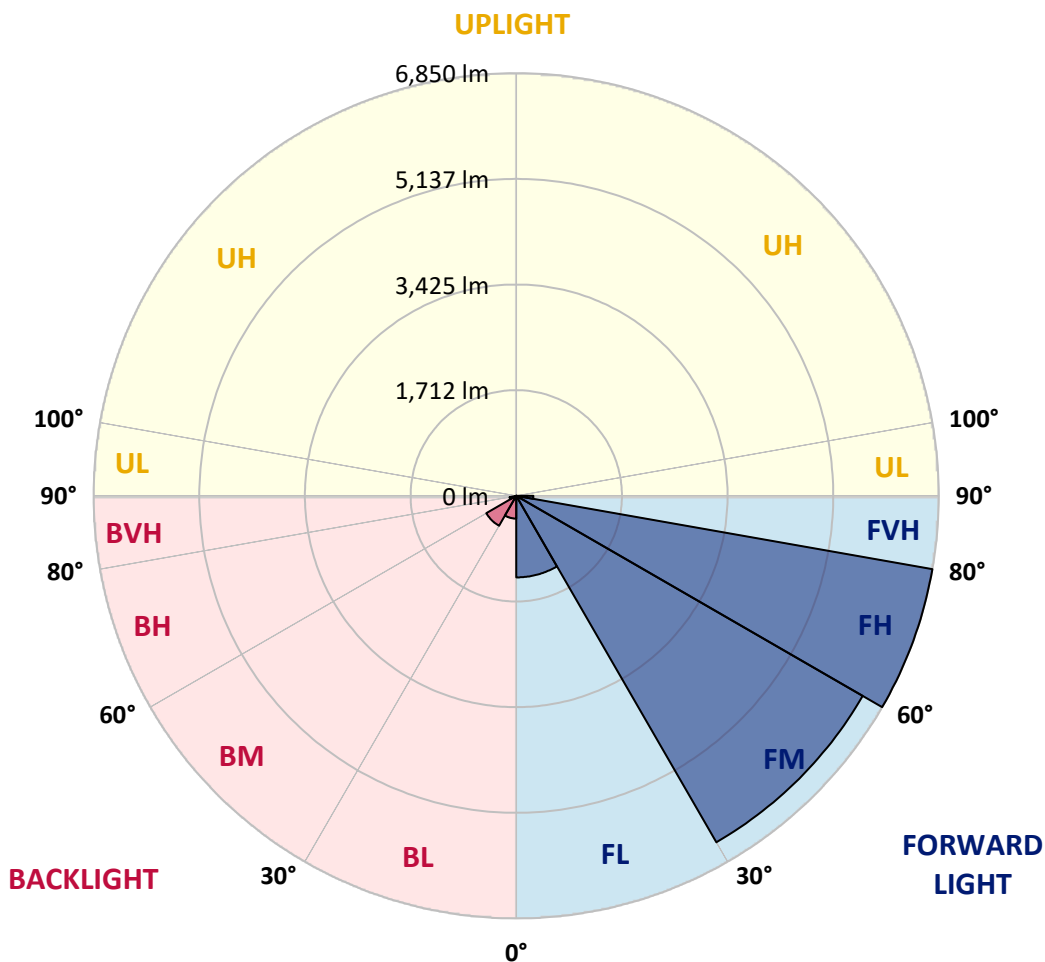


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.9	8.3			
FM (30°-60°)	6484.5	40.6			
FH (60°-80°)	6849.8	42.9			G3/7500
FVH (80°-90°)	277.7	1.7			G3/500
BL (0°-30°)	368.9	2.3	B1/500		
BM (30°-60°)	560.6	3.5	B1/1000		
BH (60°-80°)	110.2	0.7	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: B1-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7
2.5°	2880.3	2870.7	2857.7	2842.7	2799.8	2792.3	2766.5	2711.7	2646.3	2592.6	2518.5
5°	3016.7	3022.0	3012.4	2985.5	2954.3	2936.1	2903.9	2819.1	2734.3	2625.9	2504.6
7.5°	3047.8	3058.5	3046.7	3021.0	2990.8	2971.5	2945.8	2872.8	2774.0	2650.6	2484.1
10°	3044.5	3057.5	3049.9	3026.3	3001.6	2983.4	2955.4	2897.5	2818.0	2688.2	2490.6
12.5°	3039.2	3056.4	3055.3	3043.5	3023.1	3009.1	2991.9	2940.4	2866.3	2742.9	2526.0
15°	3024.2	3045.6	3064.9	3074.6	3075.7	3075.7	3054.2	2999.4	2928.6	2814.8	2572.2
17.5°	3030.6	3055.3	3103.6	3131.5	3150.8	3148.7	3126.2	3067.1	2988.7	2888.9	2620.5
20°	3070.3	3103.6	3171.2	3227.1	3246.3	3240.0	3209.8	3141.1	3052.1	2952.2	2667.7
22.5°	3168.0	3198.1	3282.8	3348.4	3362.3	3345.2	3302.2	3208.8	3128.3	3021.0	2724.7
25°	3314.0	3349.5	3427.8	3477.2	3477.2	3467.5	3407.4	3297.9	3214.1	3116.5	2798.7
27.5°	3491.2	3521.2	3598.5	3642.5	3616.7	3588.8	3528.7	3396.6	3316.1	3236.7	2887.8
30°	3670.4	3689.7	3771.3	3790.6	3763.8	3728.4	3664.0	3531.9	3461.1	3399.9	3016.7
32.5°	3840.0	3881.9	3949.5	3945.2	3908.7	3891.6	3832.5	3691.9	3652.1	3645.7	3197.0
35°	4009.6	4041.8	4102.0	4117.0	4084.8	4081.5	4038.7	3934.5	3935.5	3977.4	3478.3
37.5°	4155.6	4184.6	4255.5	4288.8	4295.2	4311.3	4294.1	4225.4	4323.2	4438.0	3850.8
40°	4278.0	4318.9	4409.0	4467.0	4533.5	4592.6	4595.8	4610.9	4807.3	5004.8	4337.1
42.5°	4373.6	4430.5	4561.4	4668.8	4821.3	4896.4	4956.5	5039.2	5369.8	5665.1	4910.3
45°	4498.1	4563.6	4726.8	4895.3	5133.6	5257.1	5340.9	5562.0	6031.1	6433.7	5498.6
47.5°	4704.2	4738.6	4905.0	5150.8	5464.3	5640.3	5803.5	6138.5	6740.7	7101.4	5988.2
50°	4969.4	4991.9	5117.6	5458.9	5864.7	6096.6	6394.0	6788.0	7477.2	7655.4	6265.1
52.5°	5262.5	5270.0	5364.5	5798.2	6313.5	6605.5	6938.2	7424.6	8077.3	8050.5	6448.7
55°	5602.7	5592.1	5672.5	6166.4	6844.8	7178.7	7566.3	8076.2	8598.0	8330.6	6553.9
57.5°	5992.5	5963.4	6041.8	6654.8	7525.4	7924.8	8318.8	8638.8	9001.6	8565.8	6604.4
60°	6400.4	6342.4	6435.8	7203.4	8327.4	8706.4	9033.8	9119.6	9426.7	8752.5	6517.4
62.5°	6725.7	6726.7	6900.7	7787.4	9151.8	9483.6	9657.5	9734.8	9792.8	8711.8	6060.1
65°	7233.4	7250.7	7528.7	8598.0	10106.2	10394.0	10513.1	10261.9	9808.9	8205.0	5373.1
67.5°	7757.4	7812.1	8320.9	9714.4	11208.8	11440.6	11287.1	10363.9	9370.8	7048.8	4074.1
70°	7928.0	8018.3	8856.7	10483.1	11870.0	11990.3	11470.7	9888.3	7833.6	4712.8	2050.4
72.5°	7264.6	7410.6	8548.6	10202.8	11448.2	11344.1	10263.0	8293.0	4980.1	1789.6	625.9
75°	5122.9	5187.3	7104.7	8463.7	9207.7	8912.5	7806.8	5346.2	2048.3	502.4	214.7
77.5°	2645.2	2614.1	4225.4	5615.7	6566.8	6260.8	5112.2	2767.6	776.2	209.3	133.1
80°	1367.7	1390.3	1828.2	2942.6	4008.5	3688.6	2725.7	1282.9	413.4	116.0	102.0
82.5°	766.5	719.3	1051.0	1285.0	1874.4	1469.6	1045.6	908.2	180.4	69.8	96.6
85°	139.5	146.0	576.5	694.6	650.6	413.4	337.1	606.5	52.6	38.7	67.6
87.5°	2.2	2.2	111.7	199.7	126.7	57.9	106.3	87.0	10.8	15.1	11.8
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°	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7	2492.7
2.5°	2481.0	2440.2	2363.9	2288.8	2193.2	2114.9	2062.3	2007.6	1951.7	1956.0	1968.9
5°	2438.0	2367.2	2216.9	2057.9	1905.5	1768.1	1632.9	1511.5	1462.2	1417.1	1419.2
7.5°	2395.1	2295.3	2075.2	1826.1	1595.3	1361.2	1191.6	1052.1	978.0	922.2	906.1
10°	2375.7	2243.7	1945.2	1602.8	1275.4	1019.9	801.9	688.1	600.1	572.2	579.7
12.5°	2384.3	2217.9	1828.2	1400.9	1011.3	710.6	558.3	500.2	481.0	477.7	475.6
15°	2400.4	2199.6	1713.4	1177.7	742.9	528.1	469.1	458.4	456.2	454.1	455.1
17.5°	2421.9	2183.6	1591.0	968.3	570.0	461.6	444.5	439.1	438.0	438.0	438.0
20°	2443.4	2165.3	1454.7	781.5	475.6	435.9	425.1	421.9	420.8	420.8	419.7
22.5°	2468.1	2149.2	1316.2	614.1	438.0	417.6	408.0	405.8	404.7	403.7	403.7
25°	2503.5	2128.8	1169.1	502.4	414.4	400.4	390.7	388.6	387.5	383.2	384.3
27.5°	2550.8	2113.8	1017.7	433.7	392.9	379.0	372.5	369.3	367.2	363.9	365.0
30°	2615.1	2100.9	856.6	396.1	368.2	356.4	349.9	347.8	345.7	342.5	342.5
32.5°	2726.8	2106.3	687.1	366.1	345.7	331.7	325.3	323.1	321.0	317.7	317.7
35°	2894.2	2137.4	549.7	340.3	318.8	304.9	298.5	298.5	295.2	290.9	289.9
37.5°	3168.0	2216.9	441.2	315.6	293.1	280.2	272.7	270.5	267.3	260.9	259.8
40°	3491.2	2340.3	371.5	290.9	269.5	256.6	250.1	243.7	235.1	228.7	227.6
42.5°	3896.9	2467.0	322.0	266.3	246.9	235.1	227.6	216.9	203.9	195.4	194.3
45°	4319.9	2583.0	288.8	243.7	225.5	215.8	207.2	190.0	173.9	163.2	162.1
47.5°	4635.5	2604.4	262.0	222.2	207.2	197.6	185.7	164.2	142.8	133.1	129.9
50°	4784.8	2500.3	234.1	200.7	189.0	178.2	163.2	138.5	114.9	103.0	100.9
52.5°	4837.3	2319.9	211.5	181.4	170.7	157.8	139.5	111.7	90.2	78.4	77.3
55°	4815.9	2092.3	191.1	163.2	149.2	134.2	116.0	89.1	66.5	56.9	54.7
57.5°	4703.1	1802.4	170.7	144.9	127.7	112.7	92.3	66.5	45.1	36.5	35.4
60°	4399.4	1407.4	150.3	124.6	108.4	92.3	73.0	47.3	27.9	20.4	20.4
62.5°	3886.2	1044.5	130.9	104.1	91.2	74.1	51.6	30.0	15.1	10.8	9.7
65°	3247.4	770.8	109.5	88.1	76.2	57.9	36.5	18.2	7.5	3.2	2.2
67.5°	2266.2	475.6	91.2	71.9	62.2	41.9	22.5	7.5	3.2	0.0	0.0
70°	1029.6	226.5	69.8	54.7	47.3	30.0	11.8	4.3	2.2	0.0	0.0
72.5°	319.9	119.2	49.4	39.7	32.2	19.3	6.5	3.2	2.2	0.0	0.0
75°	148.2	76.2	31.1	21.4	18.2	9.7	4.3	2.2	1.1	0.0	0.0
77.5°	110.6	59.0	18.2	11.8	9.7	6.5	3.2	2.2	1.1	0.0	0.0
80°	96.6	30.0	10.8	7.5	5.4	4.3	2.2	1.1	0.0	0.0	0.0
82.5°	87.0	15.1	6.5	4.3	3.2	2.2	1.1	1.1	0.0	0.0	0.0
85°	47.3	8.6	4.3	3.2	2.2	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	8.6	4.3	3.2	2.2	2.2	1.1	1.1	1.1	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)