

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: STREETWORKS

Report Number: P653877

Luminaire Tested: **GLAN-SA5A-840-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653877  
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: STREETWORKS  
Catalog Number: GLAN-SA5A-840-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA 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: 15842.8 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

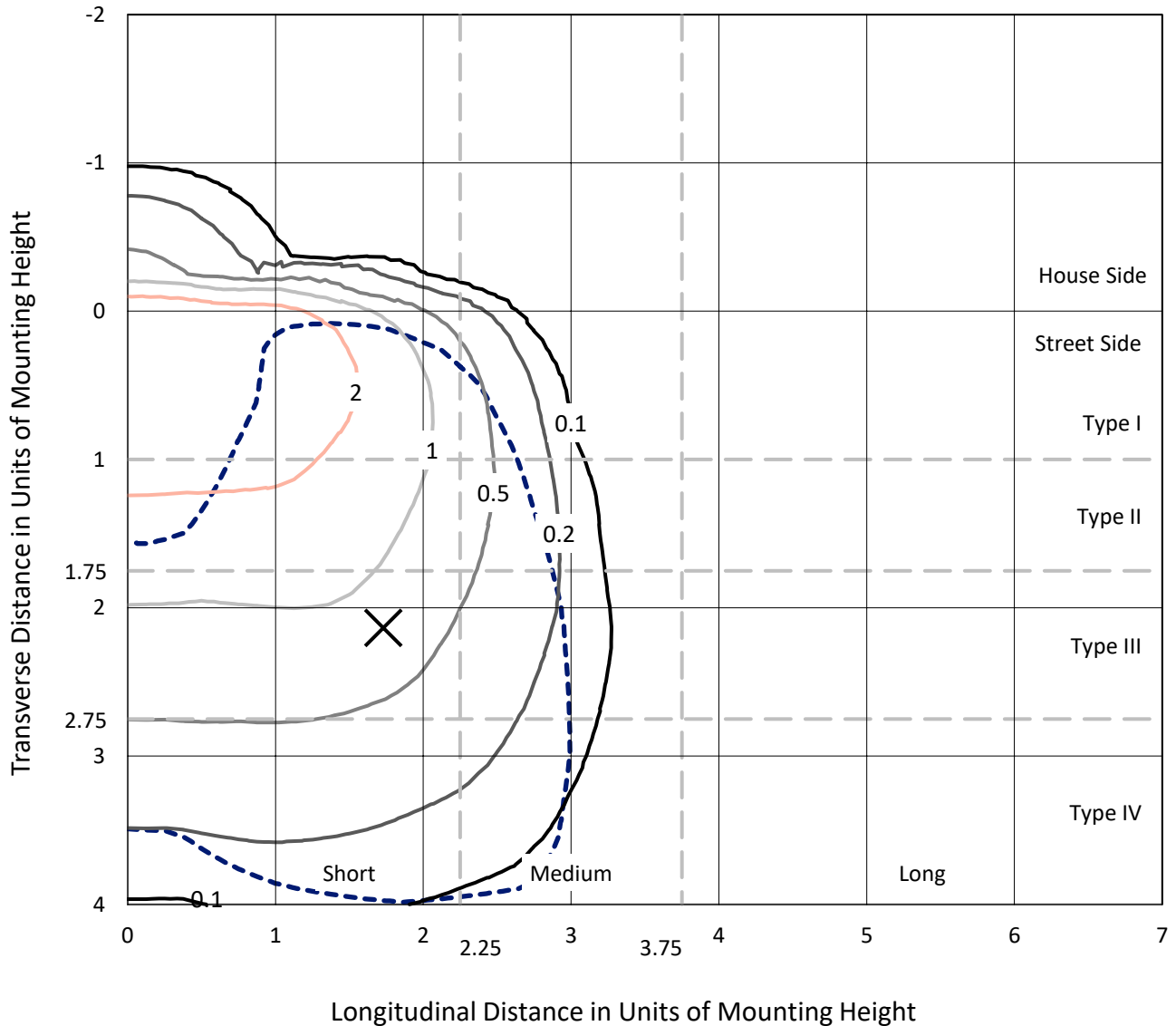
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

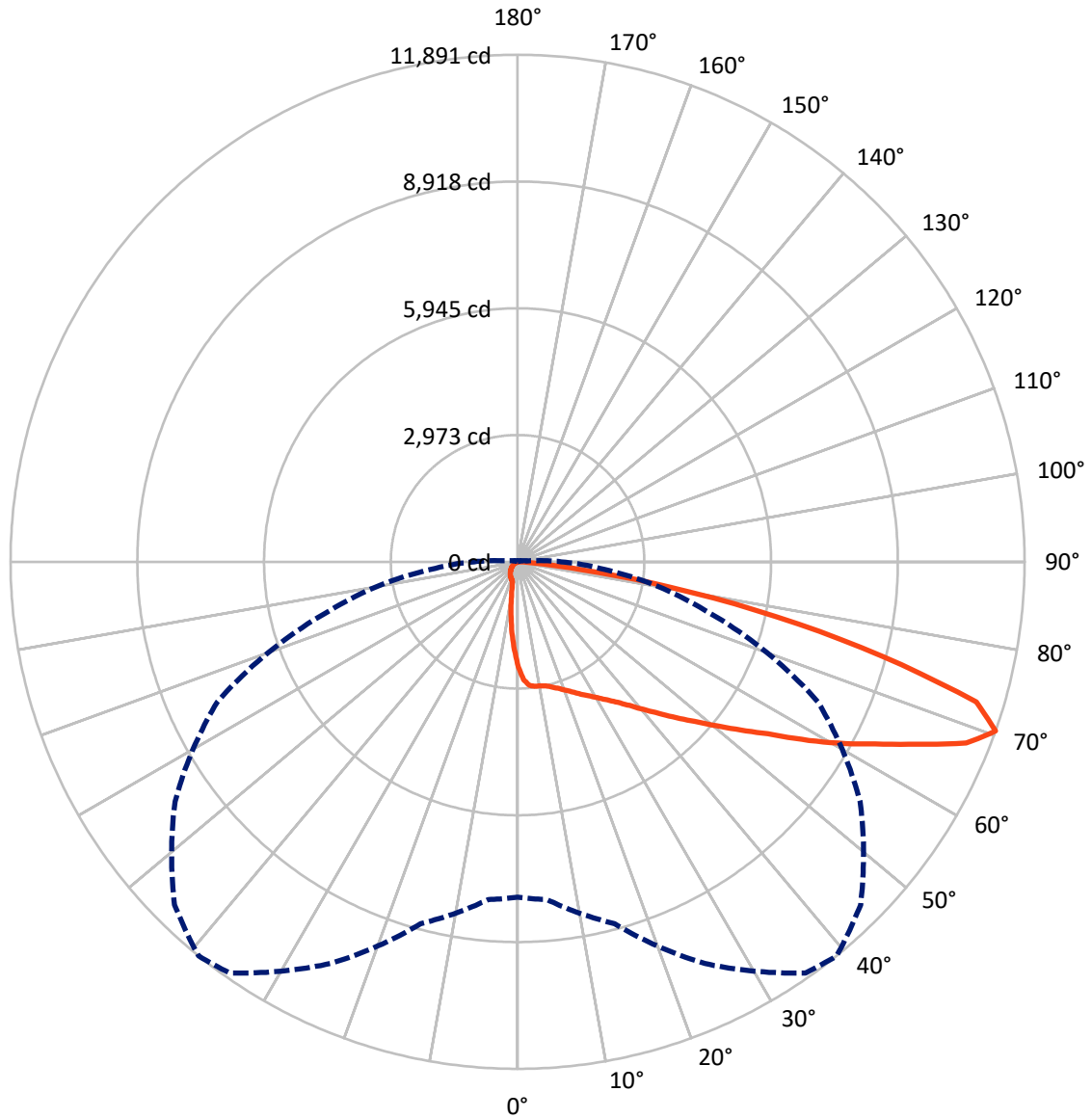
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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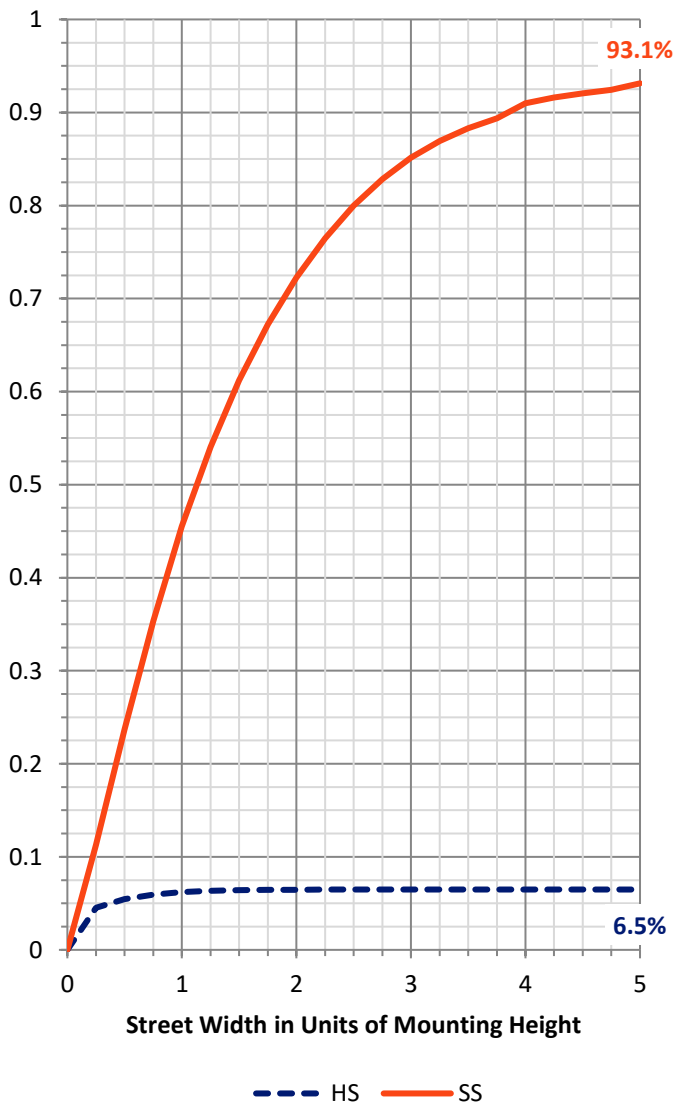
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1033.0	0.0	1033.0
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	14809.7	0.0	14809.7
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	15842.8	0.0	15842.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.8	1.3
10°-20°	547.9	3.5
20°-30°	917.9	5.8
30°-40°	1423.6	9.0
40°-50°	2256.0	14.2
50°-60°	3306.9	20.9
60°-70°	4238.7	26.8
70°-80°	2663.4	16.8
80°-90°	277.5	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°	15842.8	100.0
0°-180°	15842.8	100.0

**Coefficient of Utilization**



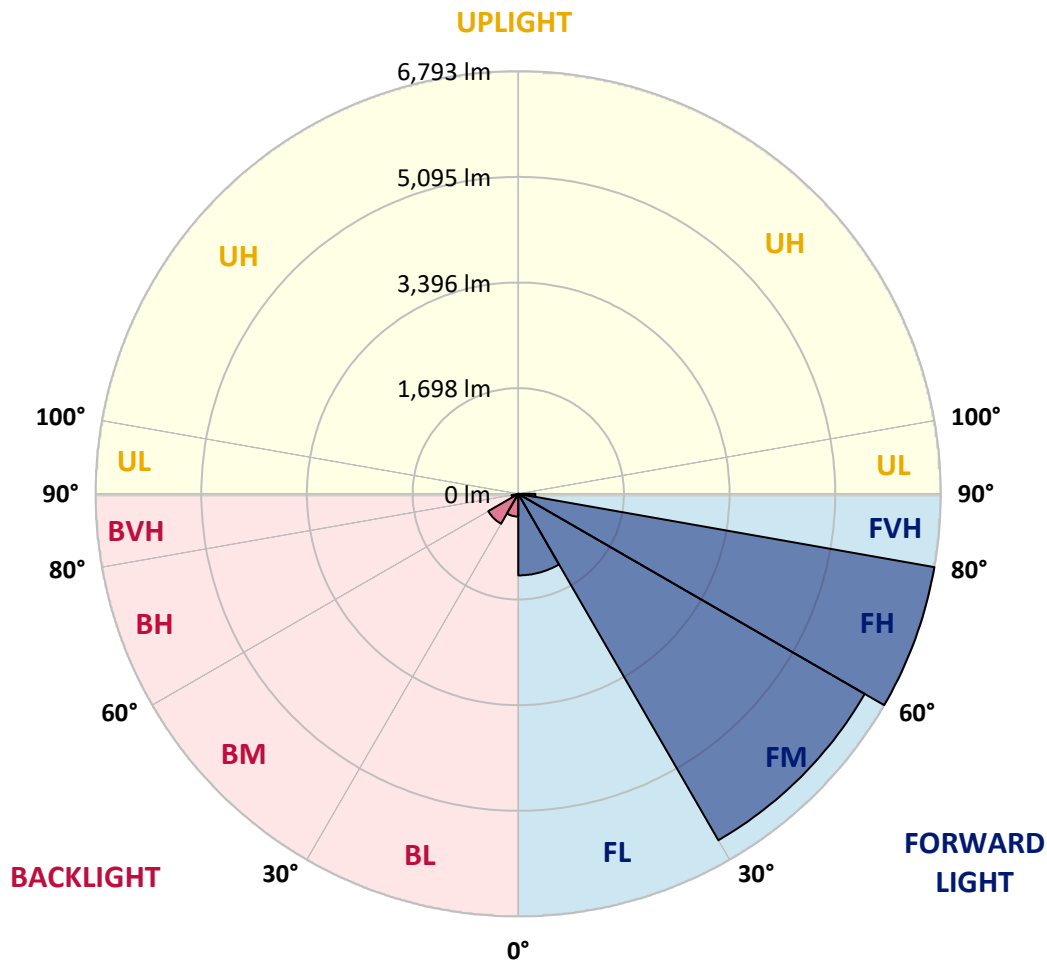
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1310.9	8.3			
FM (30°-60°)	6430.5	40.6			
FH (60°-80°)	6792.9	42.9			G3/7500
FVH (80°-90°)	275.4	1.7			G3/500
BL (0°-30°)	365.8	2.3	B1/500		
BM (30°-60°)	555.9	3.5	B1/1000		
BH (60°-80°)	109.3	0.7	B0/110		G0/110
BVH (80°-90°)	2.0	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°	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0
2.5°	2856.4	2846.8	2834.0	2819.1	2776.5	2769.1	2743.5	2689.2	2624.3	2571.0	2497.6
5°	2991.5	2996.9	2987.3	2960.7	2929.8	2911.7	2879.8	2795.7	2711.6	2604.0	2483.7
7.5°	3022.4	3033.1	3021.4	2995.8	2966.0	2946.9	2921.3	2848.9	2750.9	2628.5	2463.5
10°	3019.2	3032.0	3024.6	3001.1	2976.6	2958.6	2930.9	2873.4	2794.6	2665.8	2469.8
12.5°	3013.9	3031.0	3029.9	3018.2	2997.9	2984.1	2967.0	2915.9	2842.5	2720.0	2505.0
15°	2999.0	3020.3	3039.5	3049.0	3050.1	3050.1	3028.8	2974.5	2904.2	2791.4	2550.8
17.5°	3005.4	3029.9	3077.8	3105.5	3124.7	3122.5	3100.1	3041.6	2963.9	2864.9	2598.7
20°	3044.8	3077.8	3144.8	3200.2	3219.3	3213.0	3183.2	3115.1	3026.7	2927.7	2645.5
22.5°	3141.6	3171.5	3255.6	3320.5	3334.3	3317.3	3274.7	3182.1	3102.3	2995.8	2702.0
25°	3286.5	3321.5	3399.3	3448.3	3448.3	3438.7	3379.1	3270.5	3187.4	3090.6	2775.5
27.5°	3462.1	3491.9	3568.5	3612.2	3586.7	3558.9	3499.3	3368.4	3288.6	3209.8	2863.8
30°	3639.8	3659.0	3739.9	3759.1	3732.5	3697.4	3633.5	3502.5	3432.3	3371.6	2991.5
32.5°	3808.1	3849.6	3916.7	3912.4	3876.3	3859.2	3800.6	3661.2	3621.8	3615.4	3170.4
35°	3976.3	4008.2	4067.8	4082.8	4050.8	4047.6	4005.0	3901.8	3902.8	3944.4	3449.4
37.5°	4121.1	4149.8	4220.1	4253.1	4259.5	4275.5	4258.4	4190.3	4287.2	4401.0	3818.7
40°	4242.4	4282.9	4372.4	4429.8	4495.8	4554.4	4557.5	4572.5	4767.3	4963.2	4301.0
42.5°	4337.2	4393.6	4523.5	4630.0	4781.2	4855.7	4915.3	4997.2	5325.1	5618.0	4869.5
45°	4460.7	4525.7	4687.5	4854.6	5090.9	5213.4	5296.4	5515.7	5980.9	6380.2	5452.9
47.5°	4665.1	4699.2	4864.2	5108.0	5418.8	5593.4	5755.2	6087.4	6684.7	7042.4	5938.4
50°	4928.1	4950.4	5075.0	5413.5	5815.9	6045.9	6340.8	6731.5	7415.0	7591.7	6213.1
52.5°	5218.7	5226.1	5319.8	5749.9	6260.9	6550.5	6880.6	7362.8	8010.1	7983.4	6395.0
55°	5556.2	5545.6	5625.4	6115.1	6788.0	7119.0	7503.3	8009.0	8526.4	8261.3	6499.4
57.5°	5942.6	5913.9	5991.6	6599.5	7462.9	7858.9	8249.6	8566.8	8926.7	8494.5	6549.5
60°	6347.2	6289.7	6382.3	7143.5	8258.1	8634.0	8958.7	9043.9	9348.3	8679.7	6463.3
62.5°	6669.7	6670.8	6843.3	7722.7	9075.7	9404.7	9577.2	9653.8	9711.4	8639.3	6009.7
65°	7173.3	7190.4	7466.1	8526.4	10022.2	10307.5	10425.7	10176.6	9727.3	8136.8	5328.3
67.5°	7692.9	7747.1	8251.7	9633.7	11115.6	11345.5	11193.3	10277.7	9293.0	6990.2	4040.2
70°	7862.1	7951.6	8783.0	10395.9	11771.3	11890.6	11375.3	9806.1	7768.4	4673.6	2033.4
72.5°	7204.2	7349.0	8477.4	10118.0	11352.9	11249.7	10177.6	8224.1	4938.7	1774.7	620.7
75°	5080.3	5144.1	7045.6	8393.3	9131.2	8838.3	7741.8	5301.7	2031.3	498.2	212.9
77.5°	2623.2	2592.3	4190.3	5568.9	6512.2	6208.8	5069.6	2744.5	769.7	207.6	132.0
80°	1356.3	1378.7	1813.0	2918.1	3975.2	3658.0	2703.1	1272.2	409.9	115.0	101.2
82.5°	760.1	713.3	1042.3	1274.4	1858.8	1457.5	1037.0	900.6	178.9	69.2	95.8
85°	138.4	144.8	571.7	688.8	645.1	409.9	334.3	601.5	52.1	38.3	67.1
87.5°	2.1	2.1	110.8	198.1	125.6	57.5	105.4	86.2	10.7	14.9	11.7
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°	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0
2.5°	2460.3	2419.8	2344.3	2269.8	2175.0	2097.3	2045.1	1990.8	1935.5	1939.7	1952.5
5°	2417.7	2347.5	2198.4	2040.9	1889.6	1753.4	1619.3	1499.0	1450.0	1405.3	1407.4
7.5°	2375.2	2276.2	2057.8	1810.9	1582.0	1349.9	1181.7	1043.3	969.8	914.5	898.5
10°	2356.0	2225.0	1929.1	1589.5	1264.8	1011.4	795.2	682.4	595.1	567.4	574.9
12.5°	2364.5	2199.5	1813.0	1389.3	1002.9	704.8	553.6	496.1	476.9	473.7	471.6
15°	2380.5	2181.4	1699.1	1167.9	736.7	523.8	465.2	454.6	452.5	450.4	451.4
17.5°	2401.7	2165.4	1577.7	960.3	565.3	457.8	440.8	435.4	434.4	434.4	434.4
20°	2423.0	2147.3	1442.6	775.1	471.6	432.2	421.6	418.4	417.3	417.3	416.3
22.5°	2447.6	2131.3	1305.2	609.0	434.4	414.1	404.5	402.4	401.3	400.3	400.3
25°	2482.6	2111.1	1159.3	498.2	410.9	397.1	387.5	385.3	384.3	380.0	381.1
27.5°	2529.5	2096.2	1009.3	430.1	389.6	375.8	369.5	366.3	364.1	360.9	362.0
30°	2593.4	2083.4	849.6	392.8	365.2	353.5	347.1	344.9	342.8	339.6	339.6
32.5°	2704.1	2088.8	681.4	363.1	342.8	329.0	322.6	320.4	318.3	315.1	315.1
35°	2870.2	2119.7	545.1	337.5	316.2	302.3	295.9	295.9	292.8	288.5	287.5
37.5°	3141.6	2198.4	437.6	313.0	290.6	277.9	270.4	268.3	265.1	258.7	257.6
40°	3462.1	2320.8	368.4	288.5	267.2	254.4	248.1	241.7	233.1	226.7	225.7
42.5°	3864.5	2446.5	319.4	264.0	244.9	233.1	225.7	215.0	202.3	193.8	192.7
45°	4284.0	2561.4	286.4	241.7	223.5	214.0	205.5	188.5	172.5	161.8	160.7
47.5°	4597.0	2582.7	259.8	220.3	205.5	195.9	184.2	162.9	141.6	132.0	128.8
50°	4744.9	2479.4	232.1	199.1	187.4	176.7	161.8	137.3	113.9	102.2	100.1
52.5°	4797.1	2300.6	209.7	179.9	169.3	156.5	138.4	110.8	89.4	77.7	76.6
55°	4775.8	2074.9	189.5	161.8	148.0	133.0	115.0	88.4	66.0	56.4	54.3
57.5°	4664.0	1787.5	169.3	143.7	126.7	111.8	91.6	66.0	44.7	36.2	35.2
60°	4362.8	1395.7	149.0	123.5	107.6	91.6	72.4	46.8	27.7	20.3	20.3
62.5°	3853.9	1035.9	129.9	103.3	90.5	73.4	51.1	29.8	14.9	10.7	9.6
65°	3220.4	764.4	108.6	87.3	75.6	57.5	36.2	18.1	7.5	3.2	2.1
67.5°	2247.4	471.6	90.5	71.3	61.7	41.5	22.4	7.5	3.2	0.0	0.0
70°	1021.0	224.6	69.2	54.3	46.8	29.8	11.7	4.3	2.1	0.0	0.0
72.5°	317.2	118.2	48.9	39.4	32.0	19.2	6.4	3.2	2.1	0.0	0.0
75°	146.9	75.6	30.9	21.3	18.1	9.6	4.3	2.1	1.1	0.0	0.0
77.5°	109.7	58.5	18.1	11.7	9.6	6.4	3.2	2.1	1.1	0.0	0.0
80°	95.8	29.8	10.7	7.5	5.3	4.3	2.1	1.1	0.0	0.0	0.0
82.5°	86.2	14.9	6.4	4.3	3.2	2.1	1.1	1.1	0.0	0.0	0.0
85°	46.8	8.5	4.3	3.2	2.1	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	8.5	4.3	3.2	2.1	2.1	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)