

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: P453287

Luminaire Tested: **GALN-SA4B-740-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17624 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

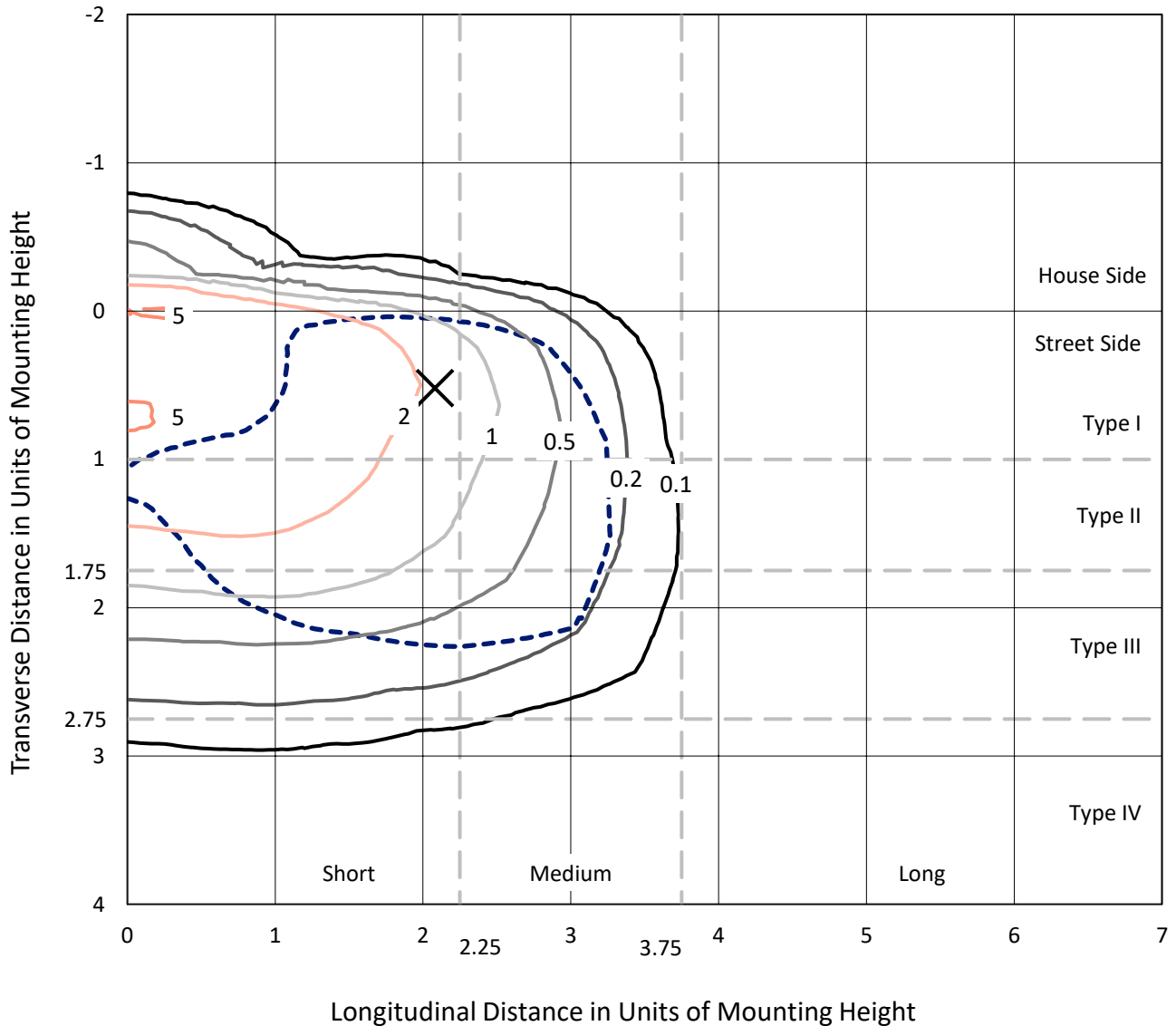
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

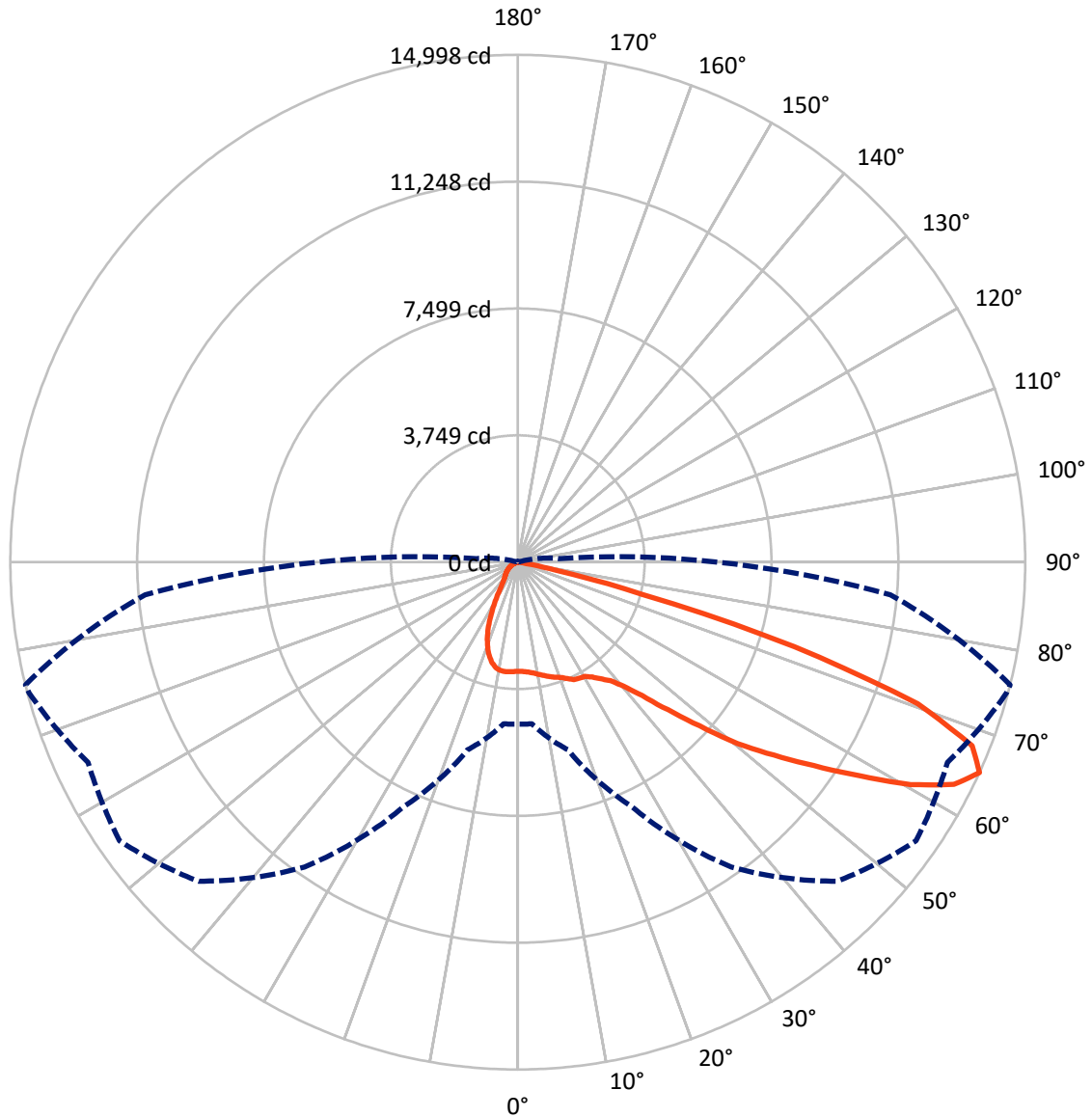
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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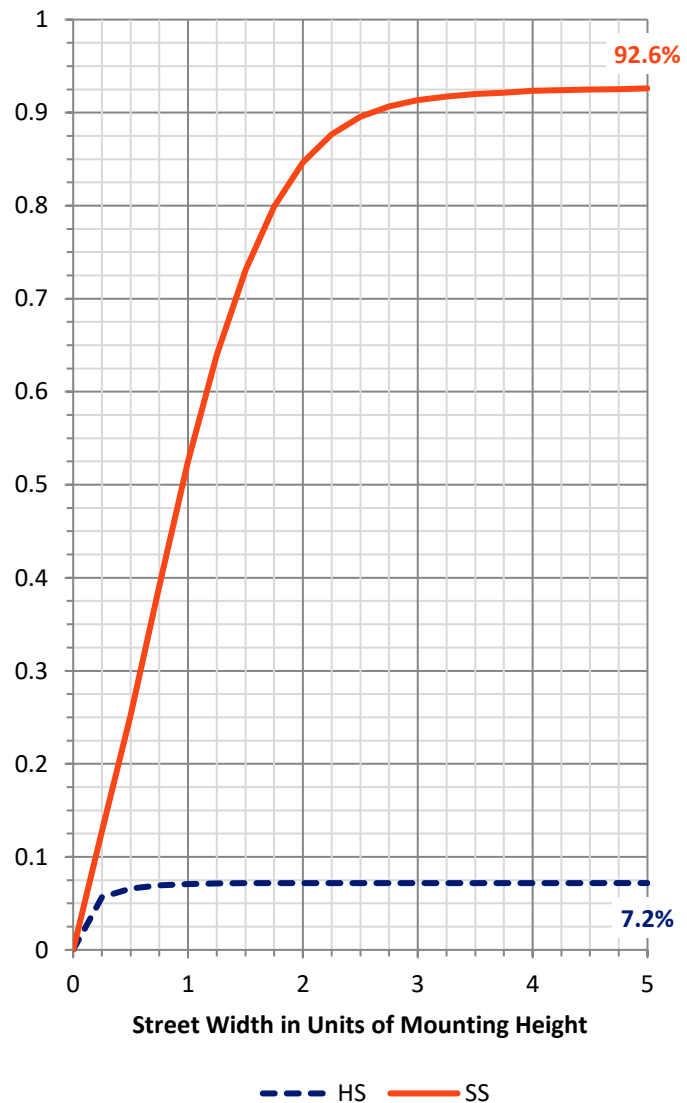
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1272.8	0.0	1272.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	16351.2	0.0	16351.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	17624.0	0.0	17624.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.6	1.5
10°-20°	591.3	3.4
20°-30°	952.9	5.4
30°-40°	1656.8	9.4
40°-50°	2737.8	15.5
50°-60°	4229.4	24.0
60°-70°	5164.6	29.3
70°-80°	1960.1	11.1
80°-90°	65.4	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°	17624.0	100.0
0°-180°	17624.0	100.0



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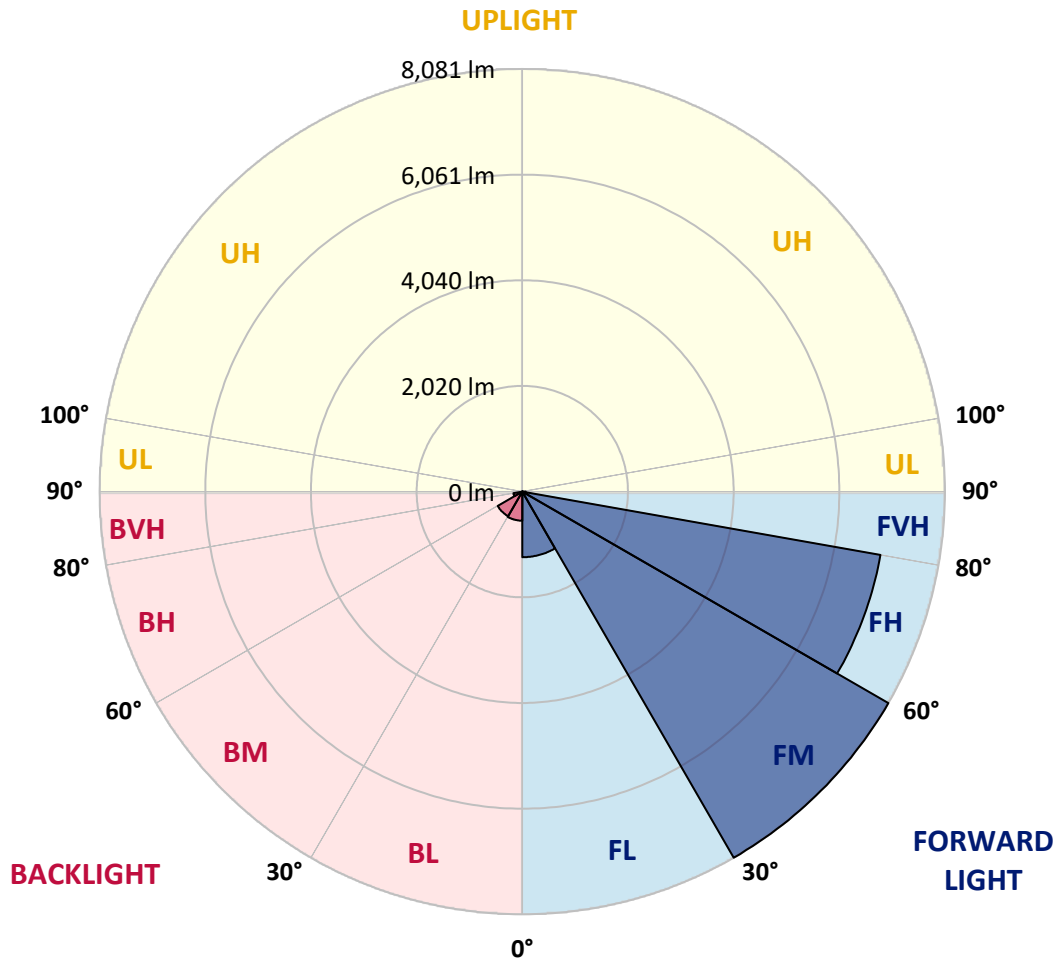
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.7	7.1			
FM (30°-60°)	8080.9	45.9			
FH (60°-80°)	6952.1	39.4			G3/7500
FVH (80°-90°)	64.5	0.4			G1/100
BL (0°-30°)	556.1	3.2	B2/1000		
BM (30°-60°)	543.1	3.1	B1/1000		
BH (60°-80°)	172.7	1.0	B1/500		G1/500
BVH (80°-90°)	0.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0
2.5°	3080.9	3082.1	3089.6	3108.3	3136.9	3160.5	3180.4	3212.8	3235.2	3237.7	3245.1
5°	2868.1	2853.2	2868.1	2916.6	2960.2	3026.1	3107.0	3187.9	3260.1	3265.1	3299.9
7.5°	2629.2	2641.7	2665.3	2715.1	2797.2	2898.0	3014.9	3159.3	3296.2	3308.6	3377.0
10°	2386.6	2414.0	2452.5	2528.4	2642.9	2773.6	2932.8	3139.4	3353.4	3370.8	3489.0
12.5°	2162.6	2175.0	2222.3	2324.4	2466.2	2650.4	2870.6	3128.2	3416.9	3438.0	3608.5
15°	1990.9	2007.1	2048.1	2140.2	2298.2	2534.6	2819.6	3124.4	3479.1	3508.9	3727.9
17.5°	1958.5	1968.5	1985.9	2048.1	2186.2	2442.6	2773.6	3123.2	3538.8	3574.9	3838.7
20°	2091.7	2083.0	2065.5	2059.3	2135.2	2371.6	2740.0	3133.2	3596.0	3637.1	3955.6
22.5°	2425.1	2436.3	2334.3	2213.6	2188.7	2360.4	2735.0	3180.4	3686.9	3735.4	4086.3
25°	3133.2	3047.3	2888.0	2599.4	2381.6	2428.9	2791.0	3292.4	3792.6	3846.1	4204.5
27.5°	3915.8	3889.7	3642.1	3166.8	2761.1	2573.2	2890.5	3378.3	3827.5	3882.2	4271.7
30°	4684.8	4715.9	4432.2	3907.1	3312.3	2840.7	2983.8	3410.6	3858.6	3915.8	4357.6
32.5°	5397.8	5435.1	5186.3	4666.1	3961.9	3303.6	3144.4	3536.3	3989.2	4047.7	4500.6
35°	5959.0	5963.9	5776.1	5361.7	4671.1	3866.1	3491.5	3756.6	4165.9	4234.4	4652.5
37.5°	6474.1	6466.6	6246.4	5889.3	5262.2	4424.7	3928.3	4010.4	4367.5	4438.4	4871.5
40°	6856.1	6861.1	6790.2	6454.2	5813.4	4941.1	4274.2	4248.1	4706.0	4816.7	5190.0
42.5°	7111.2	7157.2	7192.1	7021.6	6506.5	5577.0	4805.5	4757.0	5293.3	5385.3	5640.4
45°	7317.8	7399.9	7574.1	7565.4	7172.2	6357.1	5534.7	5435.1	6125.7	6224.0	6214.1
47.5°	7468.3	7551.7	7840.4	8014.6	7798.1	7113.7	6451.7	6365.9	7119.9	7226.9	6847.4
50°	7545.5	7645.0	8013.3	8350.5	8287.1	7842.8	7496.9	7501.9	8320.7	8423.9	7581.5
52.5°	7365.0	7494.4	8105.4	8712.6	8835.8	8540.9	8476.2	8640.4	9389.5	9477.9	8244.8
55°	6788.9	6951.9	7979.7	9021.2	9471.6	9364.6	9588.6	9838.7	10557.9	10615.2	8925.4
57.5°	6424.3	6597.3	7608.9	9283.8	10235.6	10399.9	10754.5	10937.4	11763.7	11909.2	9706.8
60°	6117.0	6252.6	7304.1	9339.7	11012.1	11666.6	12011.3	12200.4	13251.8	13346.4	10566.6
62.5°	5605.6	5761.1	6788.9	8949.0	11402.8	12680.7	13394.9	13310.3	14402.8	14468.8	11094.2
65°	4783.1	4796.8	5743.7	7967.3	10999.6	13338.9	14366.7	14012.1	14952.8	14997.6	11053.2
67.5°	3569.9	3701.8	4418.5	6262.6	9291.2	12776.5	14681.5	14030.8	14605.6	14481.2	10175.9
70°	2299.5	2400.3	2995.0	4342.6	6699.3	10662.4	13637.6	13068.9	12818.8	12542.6	8329.4
72.5°	1061.4	1190.8	1779.4	2481.1	3973.1	7595.2	11070.6	10617.6	9226.5	8544.6	5294.5
75°	462.9	495.2	878.5	1309.0	1862.7	4016.6	7299.1	6591.1	4167.2	3806.3	2119.0
77.5°	282.5	303.6	460.4	701.8	731.7	1530.5	3932.0	2875.6	1287.9	1136.0	574.9
80°	191.6	215.3	334.7	367.1	250.1	426.8	1475.7	767.7	260.1	248.9	123.2
82.5°	93.3	118.2	247.6	205.3	108.3	136.9	429.3	164.2	75.9	70.9	43.6
85°	13.7	23.6	139.4	134.4	48.5	32.4	75.9	41.1	26.1	24.9	19.9
87.5°	0.0	0.0	47.3	21.2	5.0	5.0	8.7	8.7	10.0	8.7	10.0
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°	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0	3224.0
2.5°	3248.9	3255.1	3231.5	3197.9	3161.8	3125.7	3074.7	3028.6	3001.3	3017.4	2977.6
5°	3307.4	3302.4	3240.2	3138.1	3002.5	2839.5	2677.7	2539.6	2494.8	2427.6	2420.2
7.5°	3388.2	3374.6	3242.7	3008.7	2702.6	2396.5	2097.9	1900.1	1786.8	1691.0	1693.5
10°	3501.5	3461.7	3214.0	2781.0	2277.1	1815.4	1434.7	1173.4	1060.1	1024.1	995.4
12.5°	3618.4	3541.3	3134.4	2473.7	1773.1	1240.6	872.3	713.0	643.3	620.9	618.4
15°	3723.0	3601.0	2995.0	2104.1	1289.1	792.6	594.8	542.5	533.8	535.1	533.8
17.5°	3826.2	3648.3	2802.2	1712.2	876.0	568.6	511.4	499.0	502.7	507.7	506.4
20°	3912.1	3658.3	2555.8	1306.5	619.7	499.0	480.3	477.8	481.5	485.3	485.3
22.5°	4005.4	3665.7	2263.4	904.6	506.4	464.1	454.2	454.2	459.1	464.1	465.4
25°	4075.1	3624.7	1913.7	649.5	446.7	430.5	425.6	426.8	431.8	434.3	433.0
27.5°	4086.3	3508.9	1542.9	497.7	405.6	389.5	384.5	389.5	383.2	387.0	384.5
30°	4096.2	3362.1	1167.2	419.3	368.3	343.4	336.0	328.5	323.5	317.3	316.1
32.5°	4127.4	3189.2	852.3	377.0	333.5	306.1	288.7	267.5	251.3	246.4	245.1
35°	4141.0	2981.4	625.9	343.4	302.4	272.5	241.4	211.5	187.9	179.2	185.4
37.5°	4193.3	2779.8	485.3	318.5	275.0	237.7	197.8	160.5	138.1	133.1	135.6
40°	4300.3	2560.8	406.9	297.4	251.3	205.3	156.8	120.7	105.8	100.8	99.5
42.5°	4472.0	2343.0	362.1	277.5	227.7	173.0	123.2	94.6	82.1	78.4	78.4
45°	4681.1	2134.0	331.0	256.3	202.8	139.4	97.1	75.9	68.4	65.9	65.9
47.5°	4956.1	1951.1	304.9	235.2	175.4	110.7	78.4	65.9	61.0	62.2	63.5
50°	5234.8	1815.4	276.2	211.5	144.3	90.8	67.2	58.5	57.2	58.5	58.5
52.5°	5445.1	1735.8	237.7	179.2	113.2	75.9	59.7	54.7	53.5	51.0	51.0
55°	5728.8	1718.4	189.1	145.6	89.6	63.5	53.5	49.8	46.0	43.6	42.3
57.5°	6093.4	1738.3	145.6	113.2	69.7	52.3	47.3	41.1	36.1	31.1	31.1
60°	6319.8	1693.5	113.2	87.1	51.0	42.3	36.1	29.9	23.6	19.9	18.7
62.5°	6247.7	1504.4	89.6	64.7	36.1	31.1	23.6	19.9	13.7	10.0	8.7
65°	5875.6	1214.4	72.2	44.8	26.1	18.7	12.4	12.4	6.2	1.2	0.0
67.5°	5142.7	899.6	57.2	29.9	14.9	8.7	6.2	3.7	0.0	0.0	0.0
70°	4185.8	649.5	44.8	18.7	8.7	6.2	2.5	1.2	0.0	0.0	0.0
72.5°	2657.8	372.0	34.8	11.2	6.2	2.5	0.0	0.0	0.0	0.0	0.0
75°	1027.8	145.6	23.6	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	291.2	68.4	13.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	75.9	29.9	7.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.1	12.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.2	5.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	1.2	0.0	0.0	0.0	0.0	0.0	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)