

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: P452418

Luminaire Tested: **GALN-SA3B-760-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17383 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

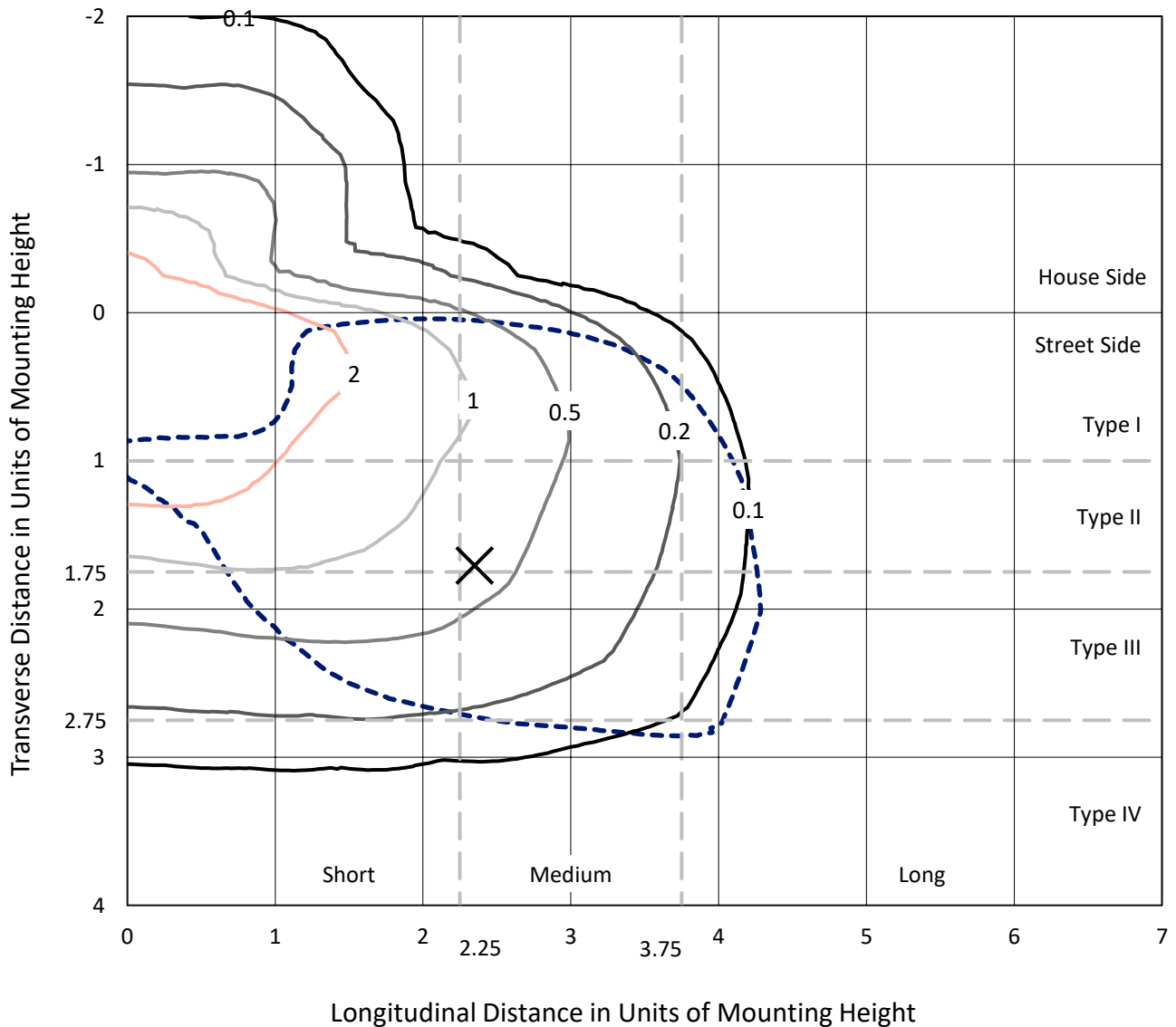
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

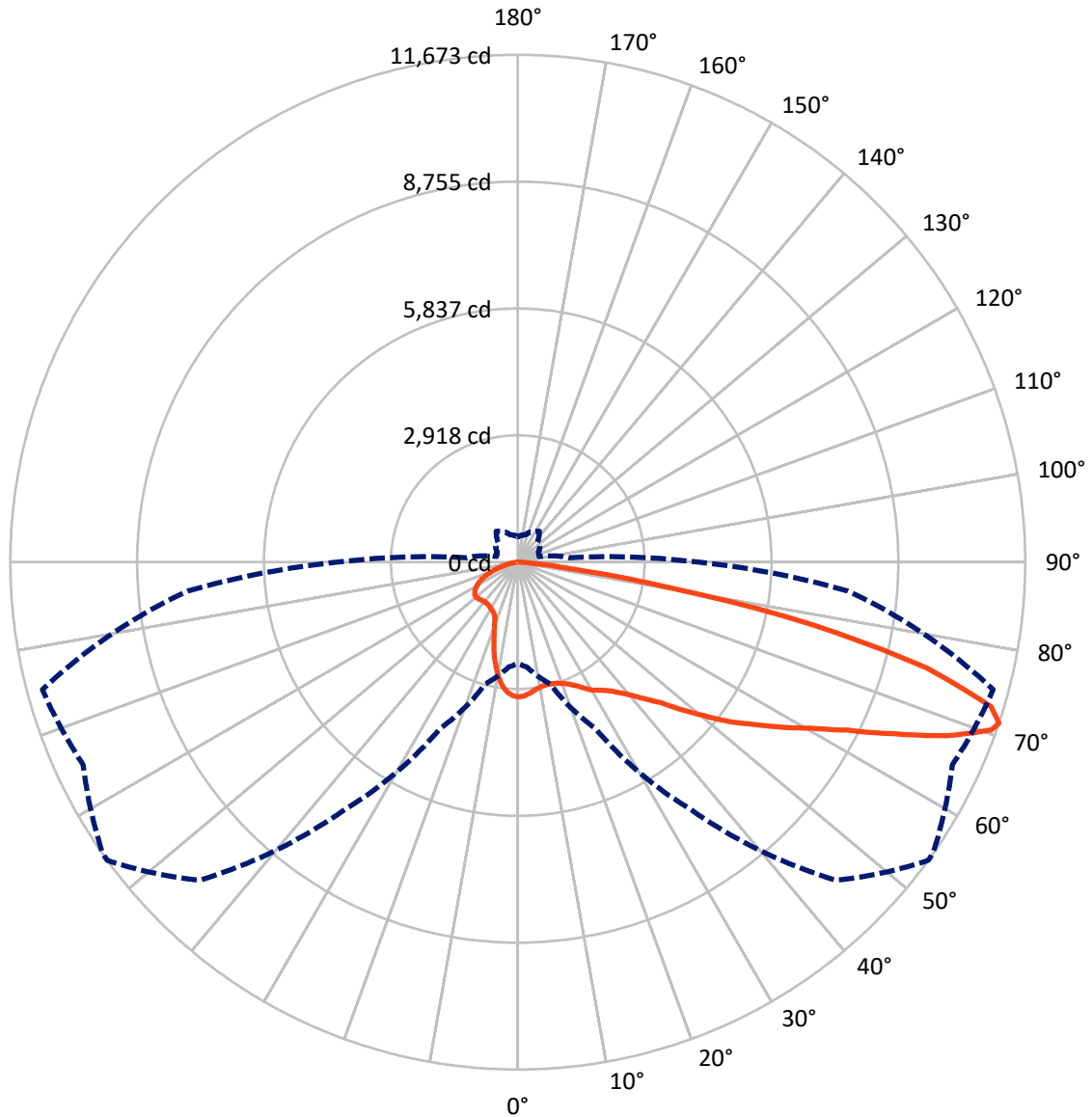
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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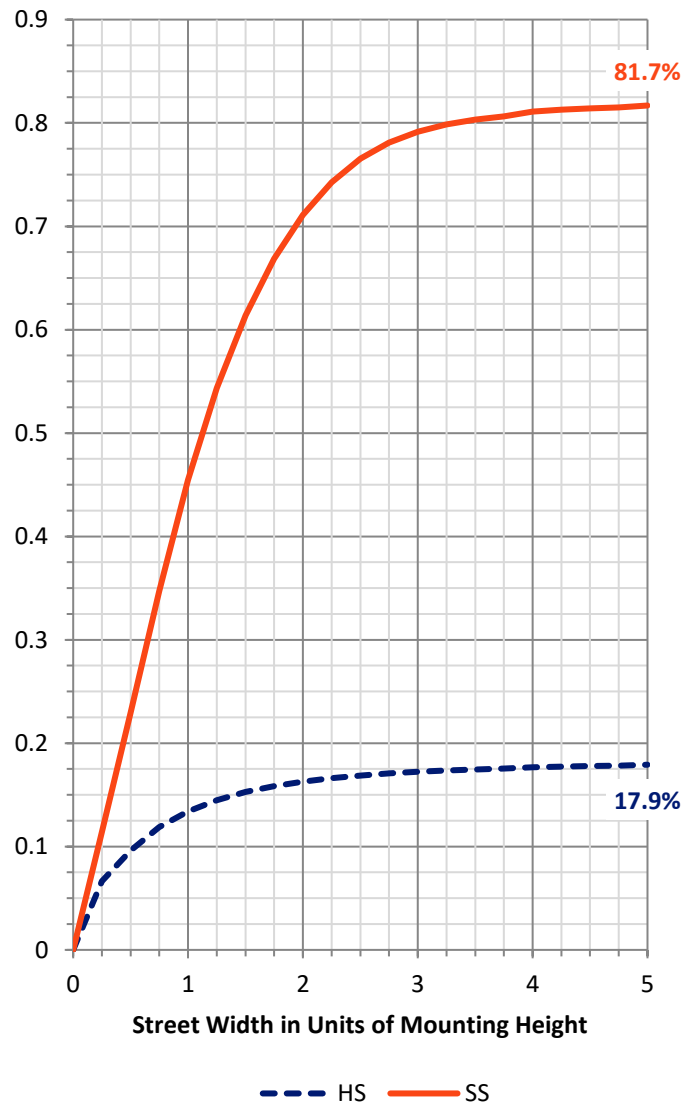
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3138.4	0.0	3138.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14244.6	0.0	14244.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	17383.0	0.0	17383.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.6
10°-20°	729.8	4.2
20°-30°	1215.1	7.0
30°-40°	1796.8	10.3
40°-50°	2530.8	14.6
50°-60°	3388.9	19.5
60°-70°	4271.4	24.6
70°-80°	2917.4	16.8
80°-90°	256.6	1.5
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°	17383.0	100.0
0°-180°	17383.0	100.0



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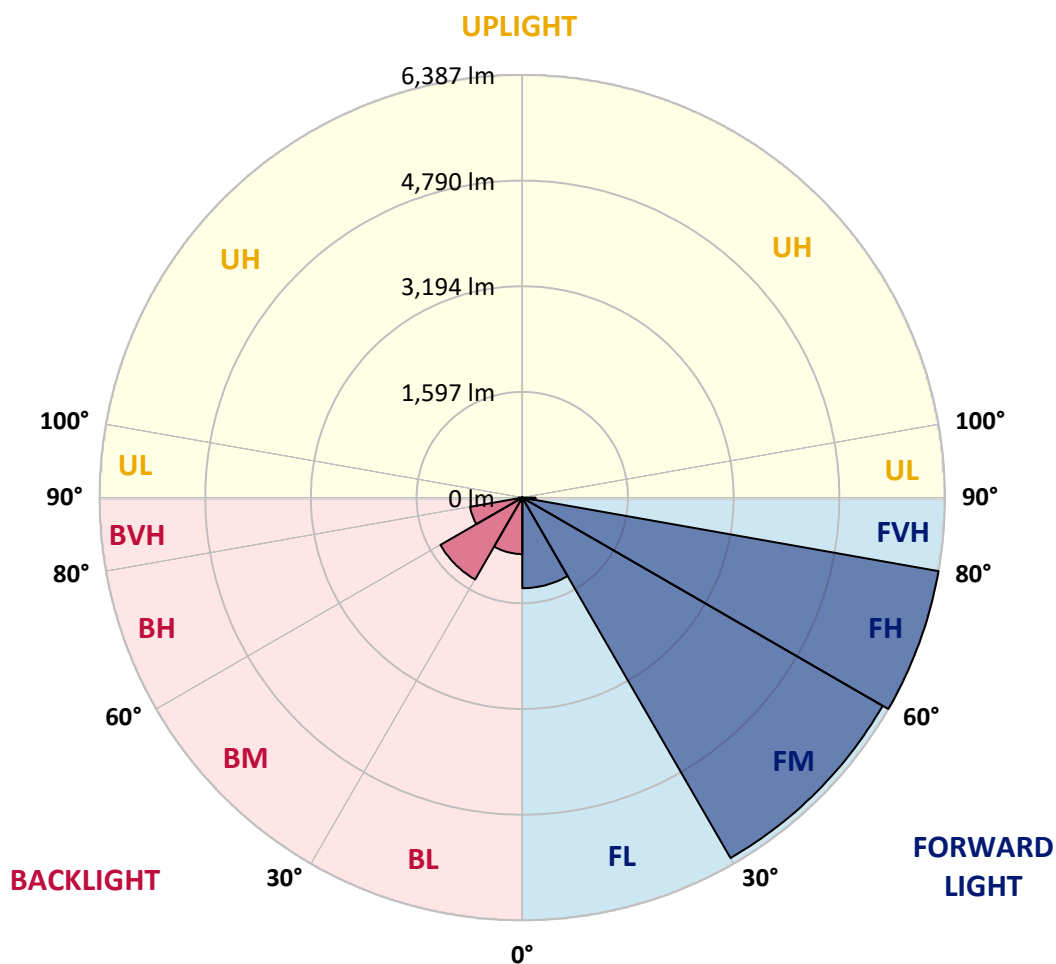
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1368.3	7.9			
FM	(30°-60°)	6288.5	36.2			
FH	(60°-80°)	6387.2	36.7			G3/7500
FVH	(80°-90°)	200.5	1.2			G2/225
BL	(0°-30°)	853.0	4.9	B2/1000		
BM	(30°-60°)	1427.9	8.2	B2/2500		
BH	(60°-80°)	801.5	4.6	B2/1000		G2/1000
BVH	(80°-90°)	56.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4
2.5°	2996.2	3010.3	3014.1	3023.5	3043.2	3059.1	3075.1	3073.2	3095.8	3105.1	3113.6
5°	2862.9	2866.6	2880.7	2899.5	2934.2	2978.4	3021.6	3022.5	3077.9	3122.0	3143.6
7.5°	2765.2	2777.4	2786.8	2806.6	2843.2	2891.1	2959.6	2965.2	3063.8	3151.1	3197.2
10°	2701.4	2715.5	2725.8	2750.2	2786.8	2840.4	2914.5	2924.9	3053.5	3197.2	3277.9
12.5°	2643.2	2657.3	2666.6	2698.6	2746.5	2812.2	2895.8	2908.0	3057.3	3250.7	3366.2
15°	2678.9	2690.1	2686.4	2695.8	2727.7	2802.8	2903.3	2915.5	3071.3	3302.3	3453.5
17.5°	2837.5	2846.9	2815.9	2780.3	2765.2	2820.6	2926.7	2939.9	3099.5	3355.8	3542.7
20°	3071.3	3096.7	3029.1	2949.3	2877.0	2884.5	2975.6	2989.6	3138.9	3409.4	3633.8
22.5°	3375.6	3394.3	3311.7	3180.3	3046.9	2978.4	3048.8	3057.3	3198.1	3478.8	3733.3
25°	3733.3	3744.6	3630.0	3461.0	3268.5	3138.9	3149.3	3164.3	3295.7	3557.7	3821.6
27.5°	4080.7	4116.4	3984.0	3777.4	3523.9	3308.0	3287.3	3296.7	3401.9	3601.9	3882.6
30°	4492.9	4490.1	4350.2	4110.8	3785.9	3492.0	3417.8	3415.9	3459.1	3623.4	3926.7
32.5°	4821.6	4860.1	4723.0	4461.9	4085.4	3682.6	3508.0	3504.2	3503.3	3661.0	3992.5
35°	5195.3	5200.9	5075.1	4812.2	4409.4	3922.0	3633.8	3615.0	3593.4	3741.8	4081.7
37.5°	5529.5	5555.8	5440.3	5145.5	4727.7	4170.9	3806.5	3794.3	3728.6	3881.7	4224.4
40°	5790.6	5810.3	5740.8	5460.1	5041.3	4439.4	4026.3	4003.7	3923.9	4110.8	4415.0
42.5°	5876.0	5916.4	5943.6	5805.6	5401.8	4757.7	4296.7	4268.5	4207.5	4458.2	4634.7
45°	5882.6	5946.4	6090.1	6096.7	5764.3	5138.9	4612.2	4592.5	4587.8	4903.2	4943.6
47.5°	5832.8	5897.6	6138.9	6269.4	6087.3	5523.9	5067.6	5036.6	5039.4	5453.5	5290.1
50°	5712.6	5789.6	6082.6	6380.2	6339.9	5923.9	5548.3	5538.0	5596.2	6081.6	5649.7
52.5°	5486.3	5579.3	6024.4	6449.7	6527.6	6268.5	6094.8	6065.7	6213.1	6763.3	6043.1
55°	4860.1	5000.0	5811.2	6488.2	6706.1	6598.1	6586.8	6639.4	6834.7	7507.0	6476.0
57.5°	4533.3	4638.5	5348.3	6494.8	6931.4	6981.2	7161.4	7174.6	7516.4	8296.6	6965.2
60°	4354.9	4447.9	5094.8	6451.6	7246.0	7455.3	7749.2	7796.2	8182.1	9152.0	7472.2
62.5°	4199.0	4278.8	4942.7	6302.3	7600.9	8158.6	8510.7	8533.3	8938.0	10096.6	7972.7
65°	3831.9	3923.0	4636.6	6153.0	7907.0	9037.5	9521.1	9494.8	9742.6	10911.7	8286.3
67.5°	3337.1	3452.6	4064.8	5637.5	8058.2	9998.0	10659.1	10626.2	10537.0	11445.9	8376.5
70°	2705.1	2767.1	3333.3	4746.4	7454.4	10502.3	11557.7	11522.9	11029.0	11516.3	7950.2
71°	2327.7	2424.4	2902.3	4215.9	6952.1	10348.3	11673.1	11663.8	11030.0	11322.0	7629.0
72.5°	1816.9	1876.0	2298.6	3266.6	5908.9	9473.2	11387.7	11423.4	10790.5	10782.1	6967.1
75°	1149.3	1175.6	1442.2	1923.0	3242.2	6708.9	9721.1	9817.8	9581.1	8825.3	5181.2
77.5°	667.6	701.4	863.8	1133.3	1400.9	3641.3	6955.8	7061.0	6657.2	4859.1	2121.1
80°	388.7	426.3	569.0	658.2	643.2	1351.2	3541.8	3721.1	2882.6	1227.2	595.3
82.5°	216.0	241.3	400.0	400.9	342.7	441.3	1114.5	1166.2	822.5	494.8	243.2
85°	156.8	177.5	258.2	233.8	164.3	189.7	387.8	406.6	332.4	208.4	78.9
87.5°	55.4	78.9	141.8	112.7	45.1	39.4	111.7	91.1	84.5	58.2	17.8
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°	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4	3101.4
2.5°	3118.3	3120.2	3110.8	3093.9	3077.0	3055.4	3031.0	3012.2	3003.7	3002.8	3001.9
5°	3152.1	3156.8	3121.1	3068.5	3010.3	2938.9	2877.9	2808.4	2790.6	2762.4	2770.9
7.5°	3206.5	3203.7	3133.3	3021.6	2885.4	2734.3	2606.6	2532.4	2455.4	2433.8	2434.7
10°	3284.5	3266.6	3133.3	2925.8	2698.6	2474.2	2295.8	2183.1	2122.0	2071.3	2052.6
12.5°	3367.1	3322.0	3103.3	2791.5	2458.2	2183.1	1991.5	1839.4	1800.0	1758.7	1759.6
15°	3446.0	3370.9	3044.1	2602.8	2199.0	1872.3	1686.4	1595.3	1583.1	1587.8	1586.8
17.5°	3517.3	3405.6	2954.0	2392.5	1896.7	1605.6	1507.0	1513.6	1546.5	1569.9	1572.8
20°	3589.6	3426.3	2819.7	2110.8	1611.3	1444.1	1447.9	1499.5	1549.3	1581.2	1585.9
22.5°	3658.2	3435.7	2662.0	1838.5	1404.7	1375.6	1431.0	1486.4	1535.2	1566.2	1570.9
25°	3703.3	3414.1	2438.5	1554.0	1303.3	1351.2	1409.4	1456.3	1497.6	1529.6	1537.1
27.5°	3715.5	3344.6	2161.5	1323.9	1256.3	1327.7	1381.2	1416.0	1447.9	1477.9	1483.6
30°	3708.9	3242.2	1857.3	1188.7	1229.1	1300.5	1341.8	1367.1	1405.6	1429.1	1433.8
32.5°	3698.6	3123.0	1539.9	1116.4	1206.6	1275.1	1299.5	1322.1	1321.1	1311.7	1318.3
35°	3702.3	2980.3	1282.6	1073.2	1186.8	1256.3	1277.0	1248.8	1168.1	1164.3	1160.6
37.5°	3722.0	2839.4	1095.8	1043.2	1176.5	1253.5	1264.8	1135.2	1063.8	1031.0	1022.5
40°	3772.7	2675.1	972.8	1020.6	1175.6	1275.1	1209.4	1077.9	940.8	877.0	872.3
42.5°	3840.3	2513.6	897.6	1006.6	1186.8	1308.0	1186.8	997.2	847.9	810.3	804.7
45°	3940.8	2328.6	856.3	1000.0	1203.7	1320.2	1179.3	938.0	810.3	780.3	780.3
47.5°	4054.4	2152.1	833.8	995.3	1225.3	1311.7	1112.7	919.2	792.5	796.2	814.1
50°	4167.1	1999.0	816.9	985.0	1244.1	1307.0	1085.4	918.3	797.2	845.1	877.0
52.5°	4297.6	1891.1	796.2	968.1	1244.1	1277.0	1077.0	937.1	810.3	824.4	838.5
55°	4455.4	1857.3	769.9	931.4	1221.6	1201.9	1072.3	964.3	819.7	786.8	792.5
57.5°	4663.8	1911.7	744.6	885.4	1169.9	1123.9	1070.4	971.8	798.1	770.9	765.3
60°	4906.1	2019.7	737.1	838.5	1099.5	1057.3	1059.1	950.2	768.1	739.9	744.6
62.5°	5076.0	2084.5	732.4	802.8	1022.5	984.0	1031.9	923.9	754.9	730.5	735.2
65°	5076.0	2005.6	689.2	748.4	923.0	895.8	999.1	891.1	738.0	709.9	705.2
67.5°	4883.5	1775.6	623.5	666.7	813.1	795.3	953.0	851.6	712.7	691.1	679.8
70°	4382.1	1346.5	540.8	570.9	674.2	690.1	893.9	798.1	670.4	644.1	627.2
71°	4161.5	1172.8	506.1	522.1	620.7	644.1	865.7	775.6	651.6	614.1	584.0
72.5°	3736.1	987.8	453.5	460.1	530.5	572.8	806.6	732.4	616.0	562.4	528.6
75°	2838.5	721.1	365.3	361.5	392.5	454.5	682.6	652.6	539.9	467.6	447.9
77.5°	1226.3	392.5	273.2	276.1	266.7	344.6	537.1	560.6	462.9	380.3	362.4
80°	371.8	226.3	186.9	190.6	178.4	231.0	378.4	439.4	371.8	295.8	271.4
82.5°	190.6	135.2	127.7	125.8	113.6	130.5	229.1	300.5	265.7	185.0	163.4
85°	82.6	72.3	62.9	61.0	53.5	46.9	81.7	150.2	140.8	103.3	98.6
87.5°	20.7	18.8	12.2	11.3	6.6	0.9	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)