

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: P452822

Luminaire Tested: **GALN-SA3D-740-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22901 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

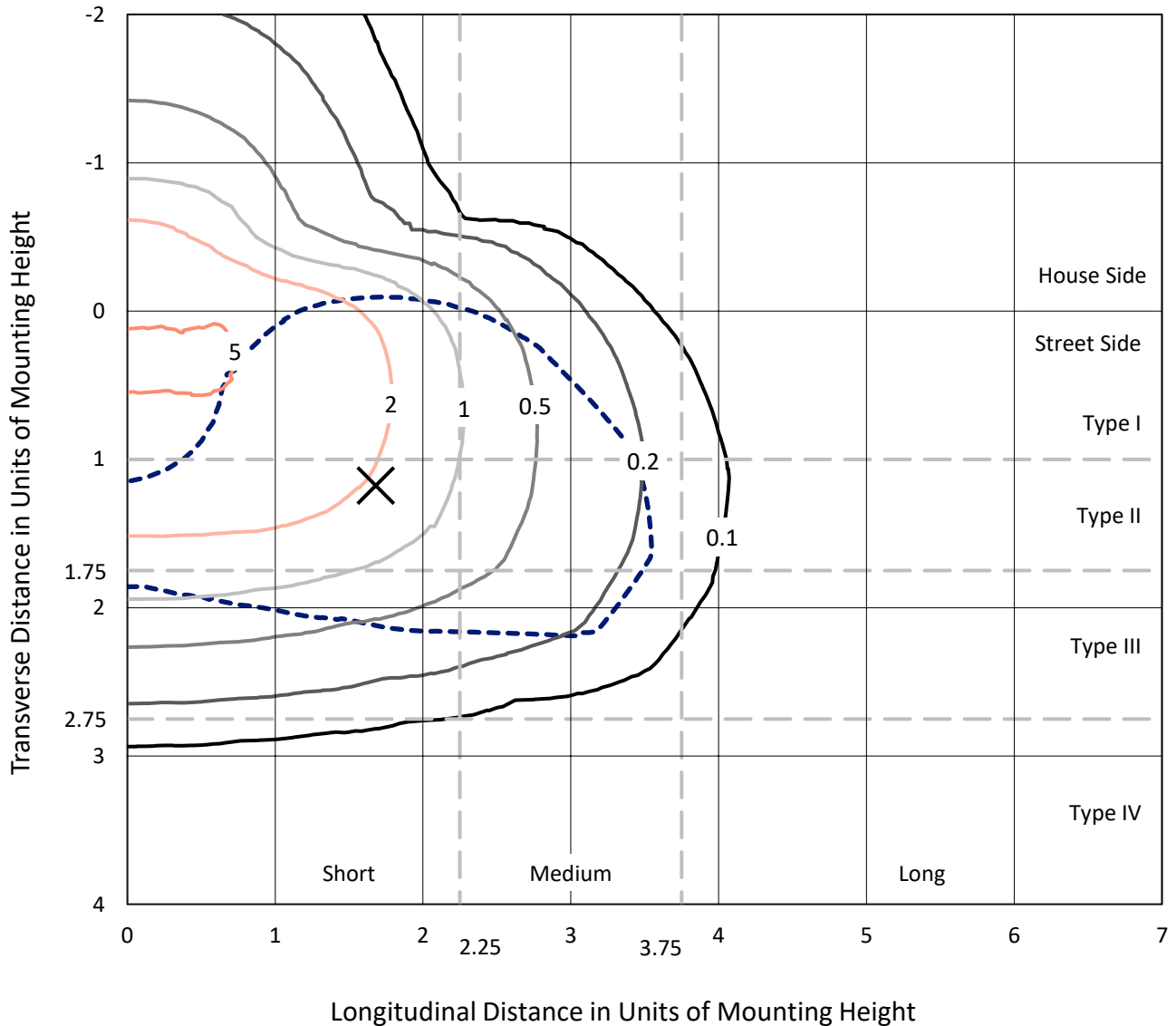
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

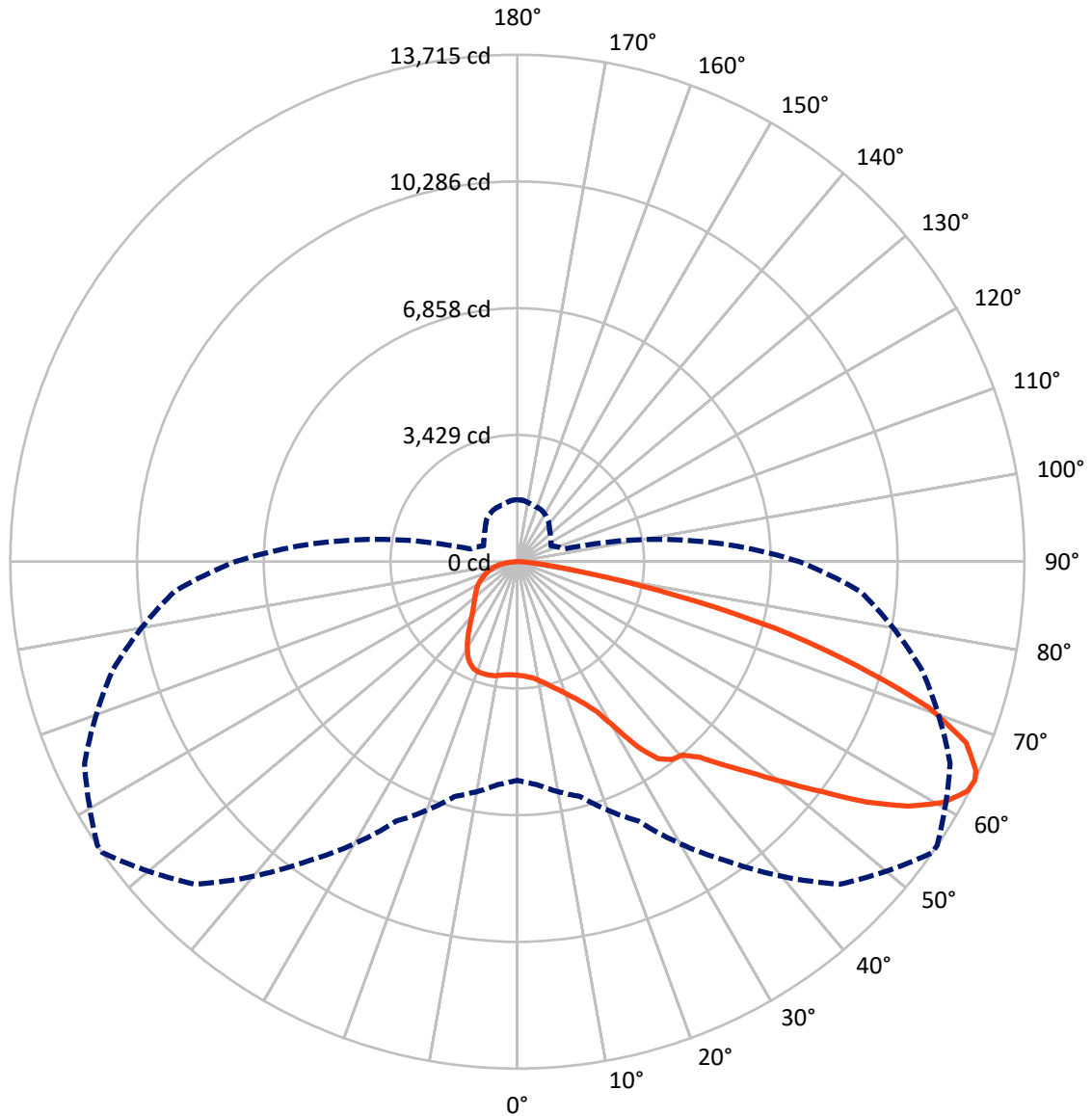
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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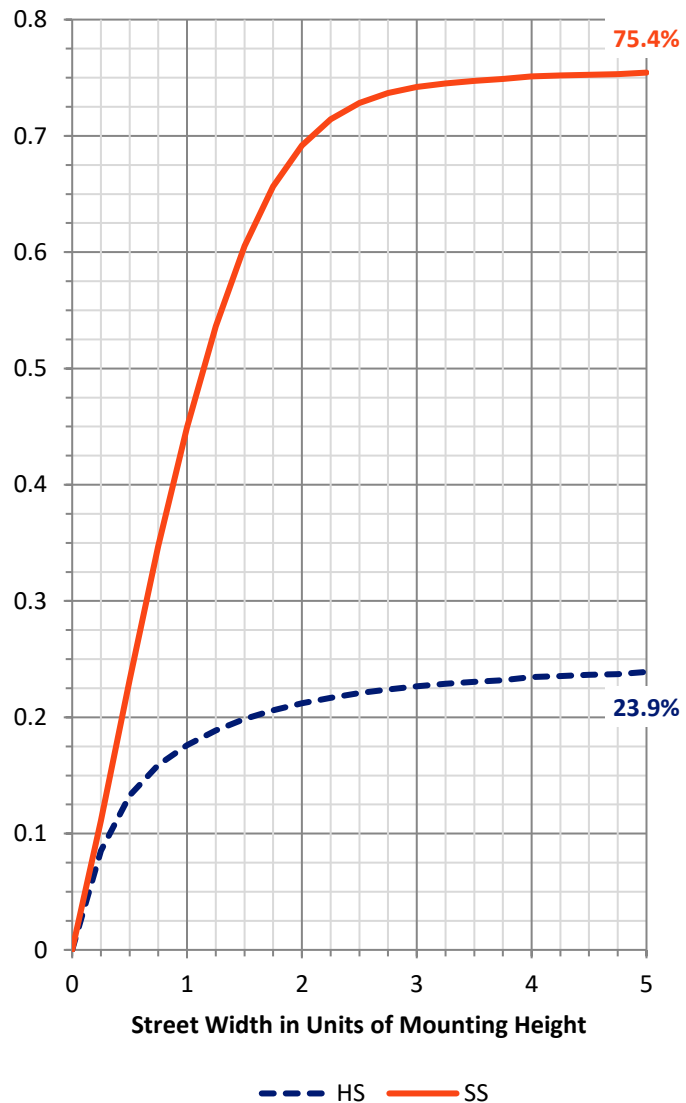
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5563.1	0.0	5563.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	17337.9	0.0	17337.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	22901.0	0.0	22901.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	1.3
10°-20°	943.1	4.1
20°-30°	1678.9	7.3
30°-40°	2583.2	11.3
40°-50°	3661.9	16.0
50°-60°	5300.5	23.1
60°-70°	5485.4	24.0
70°-80°	2568.8	11.2
80°-90°	380.3	1.7
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°	22901.0	100.0
0°-180°	22901.0	100.0



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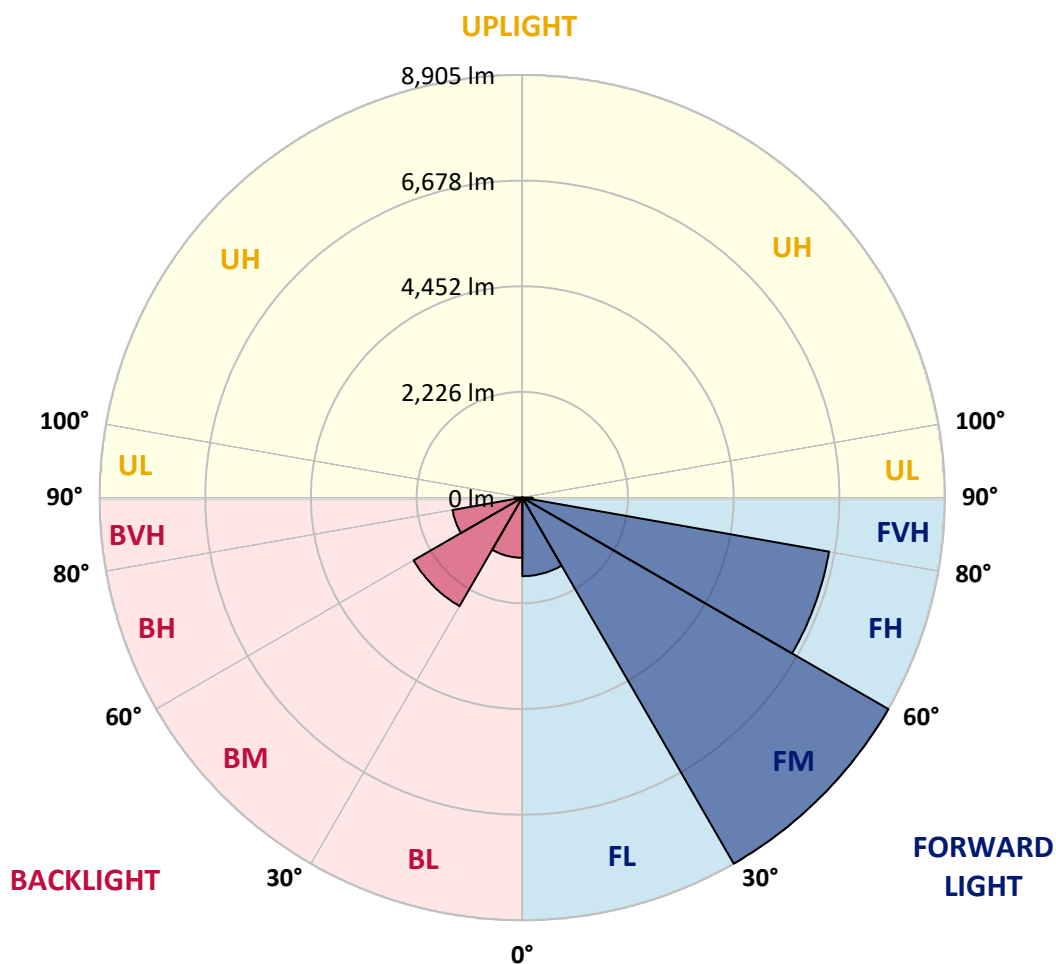
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1653.8	7.2			
FM	(30°-60°)	8904.5	38.9			
FH	(60°-80°)	6561.8	28.7			G3/7500
FVH	(80°-90°)	217.7	1.0			G2/225
BL	(0°-30°)	1267.1	5.5	B3/2500		
BM	(30°-60°)	2641.0	11.5	B3/5000		
BH	(60°-80°)	1492.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	162.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6
2.5°	3107.1	3105.8	3109.6	3105.8	3108.4	3099.4	3095.6	3098.2	3094.3	3087.9	3076.5
5°	3145.4	3144.1	3145.4	3140.3	3142.8	3137.7	3128.8	3131.3	3125.0	3110.9	3094.3
7.5°	3210.5	3205.4	3205.4	3204.1	3199.0	3191.3	3185.0	3182.4	3176.0	3158.2	3132.6
10°	3294.7	3294.7	3296.0	3285.8	3292.2	3278.1	3271.8	3270.5	3248.8	3225.8	3190.1
12.5°	3405.8	3412.2	3408.4	3403.2	3400.7	3395.6	3373.9	3379.0	3354.7	3315.2	3271.8
15°	3543.7	3553.9	3547.5	3544.9	3538.6	3519.4	3510.5	3506.6	3474.7	3417.3	3359.8
17.5°	3726.2	3713.4	3708.3	3702.0	3675.1	3661.1	3645.8	3643.2	3615.2	3547.5	3458.1
20°	3885.8	3903.6	3893.4	3887.1	3860.2	3833.4	3821.9	3818.1	3793.9	3719.8	3576.9
22.5°	4076.0	4079.8	4083.6	4068.3	4055.6	4035.1	4014.7	4008.3	3999.4	3922.8	3747.9
25°	4278.9	4294.3	4281.5	4266.2	4250.9	4249.6	4268.7	4266.2	4262.4	4188.3	3975.1
27.5°	4609.6	4623.6	4627.4	4610.8	4552.1	4557.2	4600.6	4614.7	4673.4	4550.9	4267.5
30°	4795.9	4810.0	4841.9	4904.5	4997.6	5079.3	5184.0	5215.9	5272.1	5041.0	4614.7
32.5°	4910.8	4915.9	4973.4	5089.6	5369.1	5674.2	5958.9	5970.4	6006.1	5681.9	4932.5
35°	5092.1	5095.9	5141.9	5269.5	5597.6	6105.7	6546.1	6560.1	6530.8	5881.0	5080.6
37.5°	5315.5	5325.7	5355.1	5461.0	5852.9	6466.9	6789.9	6779.7	6519.3	6039.3	5342.3
40°	5641.0	5641.0	5606.5	5749.5	6122.3	6673.7	6875.4	6857.6	6788.6	6497.6	5740.6
42.5°	5928.2	5923.1	6004.8	6101.8	6459.3	6992.9	7234.1	7263.5	7377.1	7073.3	6193.8
45°	6302.3	6325.2	6371.2	6547.4	7032.4	7537.9	7849.4	7877.5	8038.3	7751.1	6723.5
47.5°	6680.1	6687.8	6832.0	7066.9	7742.2	8277.1	8532.4	8578.3	8725.1	8543.9	7294.1
50°	6948.2	7020.9	7252.0	7622.2	8473.6	9178.3	9377.4	9432.3	9691.5	9406.8	7959.2
52.5°	7231.6	7303.1	7585.2	8149.4	9313.6	10100.0	10345.1	10382.1	10651.4	10279.9	8639.6
55°	7474.1	7540.5	7860.9	8616.6	9982.5	11040.8	11485.0	11441.6	11570.5	10952.7	9164.3
57.5°	7513.7	7567.3	7970.7	8915.3	10485.5	11847.5	12484.5	12510.1	12360.7	11455.6	9597.0
60°	7207.3	7317.1	7780.5	8883.4	10711.4	12409.2	13230.0	13247.9	12824.1	11713.5	9769.3
62.5°	6664.8	6653.3	7213.7	8370.2	10394.8	12536.9	13669.2	13650.0	13005.4	11589.7	9602.1
64°	5915.5	6053.3	6576.7	7739.6	9884.2	12340.3	13715.1	13704.9	12918.5	11331.8	9317.4
65°	5458.5	5450.8	5967.8	7223.9	9376.2	12044.1	13633.4	13619.4	12737.3	11100.8	9096.6
67.5°	3940.7	3958.5	4469.2	5574.6	7622.2	10886.3	13101.1	13048.8	12022.4	10334.8	8256.6
70°	2387.1	2397.3	2798.2	3698.1	5471.2	8800.4	11809.2	11811.8	10928.4	9191.1	7027.3
72.5°	1257.4	1284.2	1445.0	2099.9	3322.8	6174.6	9580.4	9807.6	9382.5	7844.3	5551.7
75°	699.5	703.4	817.0	1035.3	1695.2	3455.6	7200.9	7266.0	7428.2	6313.7	4105.3
77.5°	533.6	541.3	577.0	668.9	922.9	1602.1	4358.1	4684.9	5235.1	4451.3	2342.4
80°	432.7	440.4	471.0	525.9	614.0	759.5	2024.6	2200.7	2802.0	1976.1	914.0
82.5°	337.0	331.9	371.5	407.2	446.8	449.3	831.0	919.1	1141.2	850.2	395.7
85°	250.2	250.2	282.1	274.5	288.5	263.0	366.4	404.7	457.0	361.3	183.8
87.5°	99.6	109.8	185.1	165.9	128.9	103.4	135.3	143.0	158.3	141.7	76.6
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°	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6	3072.6
2.5°	3077.7	3081.6	3072.6	3066.2	3063.7	3059.9	3056.0	3057.3	3062.4	3067.5	3066.2
5°	3093.0	3094.3	3079.0	3071.3	3066.2	3061.1	3061.1	3065.0	3075.2	3082.8	3082.8
7.5°	3131.3	3131.3	3109.6	3095.6	3087.9	3079.0	3076.5	3077.7	3085.4	3095.6	3096.9
10°	3191.3	3186.2	3158.2	3136.4	3122.4	3100.7	3081.6	3071.3	3075.2	3081.6	3081.6
12.5°	3264.1	3250.1	3214.3	3185.0	3150.5	3109.6	3070.1	3049.6	3048.4	3054.8	3052.2
15°	3342.0	3326.7	3276.9	3223.3	3163.3	3103.3	3056.0	3026.7	3003.7	2997.3	3011.3
17.5°	3432.6	3400.7	3331.8	3257.7	3168.4	3090.5	3016.5	2956.5	2915.6	2904.1	2907.9
20°	3542.4	3500.3	3407.1	3290.9	3164.5	3044.5	2929.7	2849.2	2782.8	2762.4	2765.0
22.5°	3694.3	3621.5	3484.9	3307.5	3132.6	2957.7	2798.2	2693.5	2613.1	2581.2	2600.3
25°	3866.6	3787.5	3559.0	3303.7	3049.6	2818.6	2642.4	2505.8	2433.1	2385.8	2396.1
27.5°	4104.1	3963.6	3638.1	3269.2	2930.9	2648.8	2444.6	2315.6	2249.3	2225.0	2236.5
30°	4407.9	4192.1	3723.7	3176.0	2743.3	2434.4	2245.4	2161.2	2121.6	2091.0	2101.2
32.5°	4627.4	4353.0	3742.8	3019.0	2540.3	2239.0	2110.1	2047.6	2004.2	1974.8	1981.2
35°	4784.5	4489.6	3733.9	2826.3	2328.4	2078.2	2002.9	1951.8	1881.6	1817.8	1806.3
37.5°	4995.1	4660.6	3668.8	2615.6	2119.1	1969.7	1916.1	1821.6	1720.8	1635.2	1631.4
40°	5318.1	4861.1	3529.6	2368.0	1940.3	1889.3	1824.2	1701.6	1593.1	1524.2	1519.1
42.5°	5651.2	5046.1	3340.7	2107.6	1793.5	1805.0	1725.9	1604.6	1538.2	1493.5	1488.4
45°	6058.4	5246.6	3136.4	1881.6	1685.0	1725.9	1640.3	1570.1	1530.6	1501.2	1493.5
47.5°	6498.8	5452.1	2906.7	1678.6	1593.1	1653.1	1604.6	1572.7	1551.0	1530.6	1521.6
50°	6973.7	5681.9	2690.9	1515.2	1510.1	1577.8	1600.8	1589.3	1576.5	1570.1	1562.5
52.5°	7494.5	5916.7	2509.7	1400.4	1437.4	1524.2	1602.1	1611.0	1611.0	1607.2	1602.1
55°	7846.9	6080.1	2325.8	1307.2	1363.3	1480.8	1599.5	1634.0	1646.7	1641.6	1636.5
57.5°	8107.3	6169.5	2094.8	1226.8	1300.8	1438.7	1585.5	1636.5	1649.3	1655.7	1653.1
60°	8160.9	6086.5	1792.3	1142.5	1233.1	1377.4	1534.4	1598.2	1614.8	1654.4	1658.2
62.5°	7919.6	5831.2	1491.0	1059.5	1150.2	1284.2	1465.5	1554.8	1588.0	1649.3	1655.7
64°	7623.5	5545.3	1323.8	1007.2	1096.5	1231.9	1431.0	1543.3	1586.7	1668.4	1673.5
65°	7406.5	5337.2	1219.1	974.0	1062.1	1197.4	1411.8	1547.2	1598.2	1697.8	1705.5
67.5°	6607.4	4621.1	1008.5	896.1	980.4	1138.7	1415.7	1579.1	1595.7	1709.3	1708.0
70°	5467.4	3679.0	845.1	824.6	901.2	1091.4	1400.4	1528.0	1529.3	1604.6	1586.7
72.5°	4093.9	2719.0	732.7	750.6	813.2	979.1	1322.5	1459.1	1437.4	1447.6	1429.7
75°	2812.2	1798.6	630.6	671.5	721.2	865.5	1212.7	1325.0	1290.6	1277.8	1265.0
77.5°	1501.2	994.4	524.7	593.6	626.8	748.1	1058.2	1166.8	1131.0	1081.2	1064.6
80°	607.6	468.5	422.5	491.5	510.6	602.5	880.8	948.5	921.7	834.9	806.8
82.5°	305.1	280.8	331.9	386.8	388.1	430.2	654.9	718.7	658.7	552.7	528.5
85°	159.6	164.7	228.5	271.9	240.0	232.3	393.2	435.3	399.6	347.2	312.8
87.5°	57.4	66.4	120.0	118.7	84.3	44.7	86.8	42.1	23.0	14.0	17.9
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)