

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: P452797

Luminaire Tested: **GALN-SA3D-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20985 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

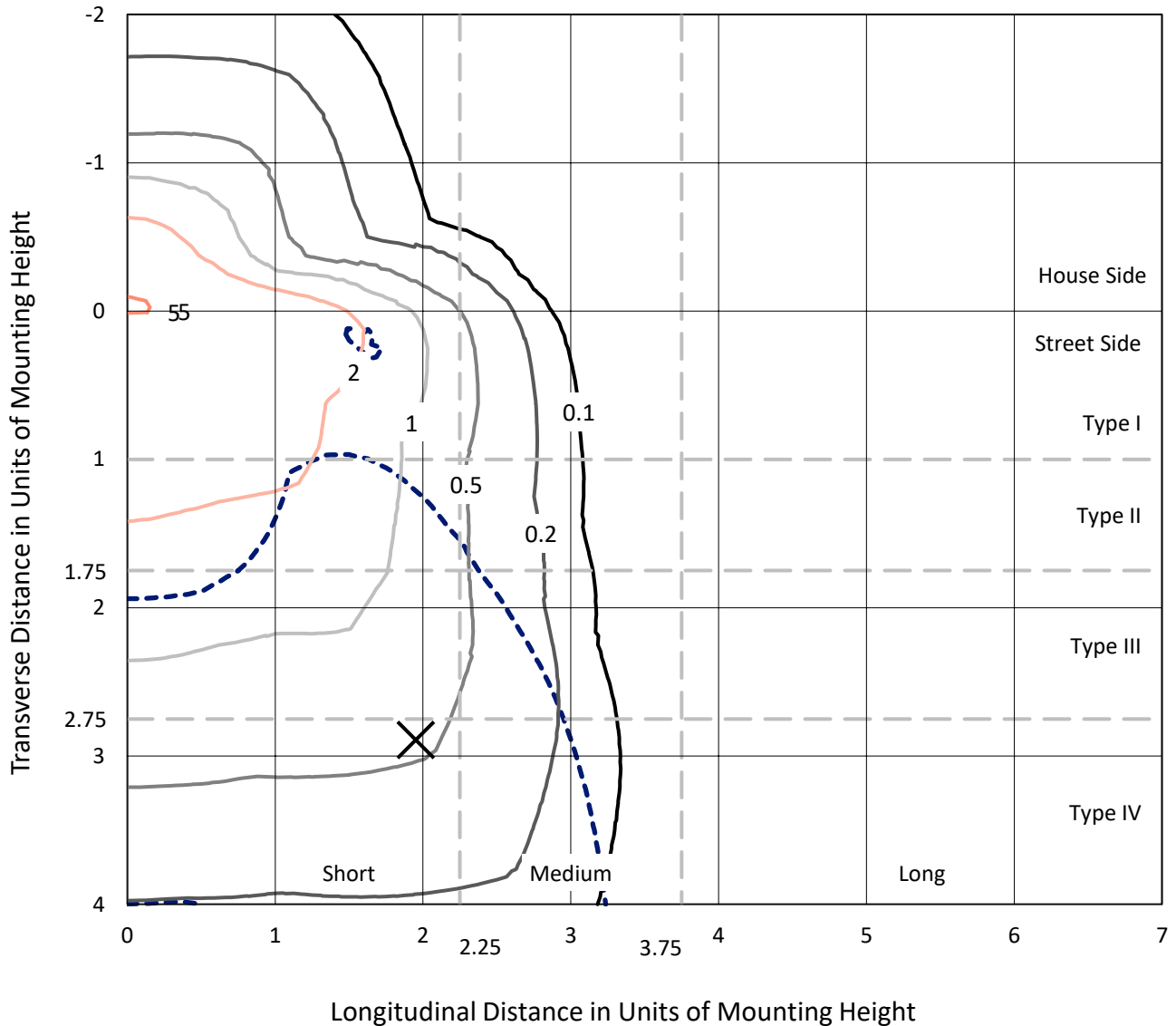
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

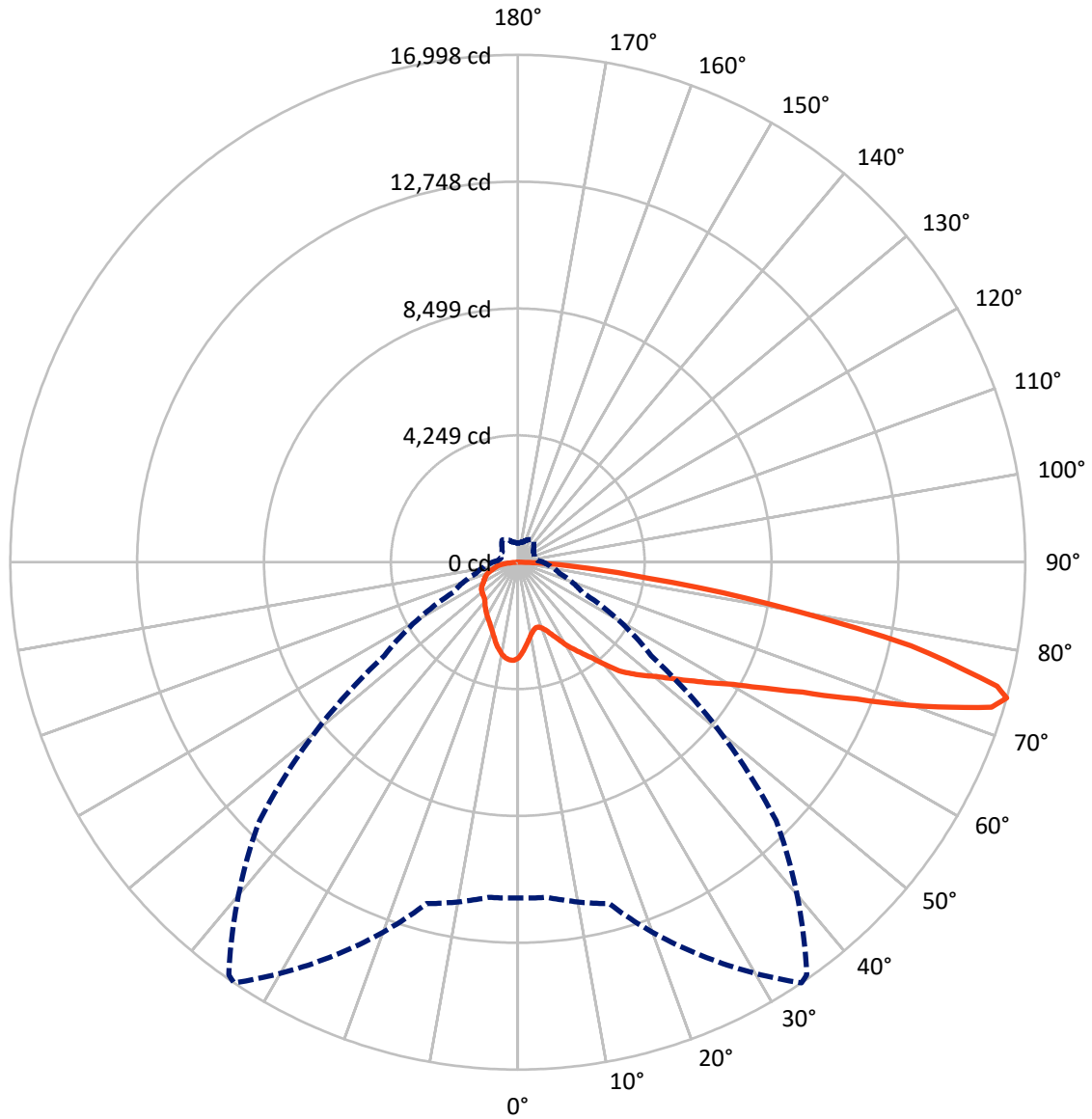
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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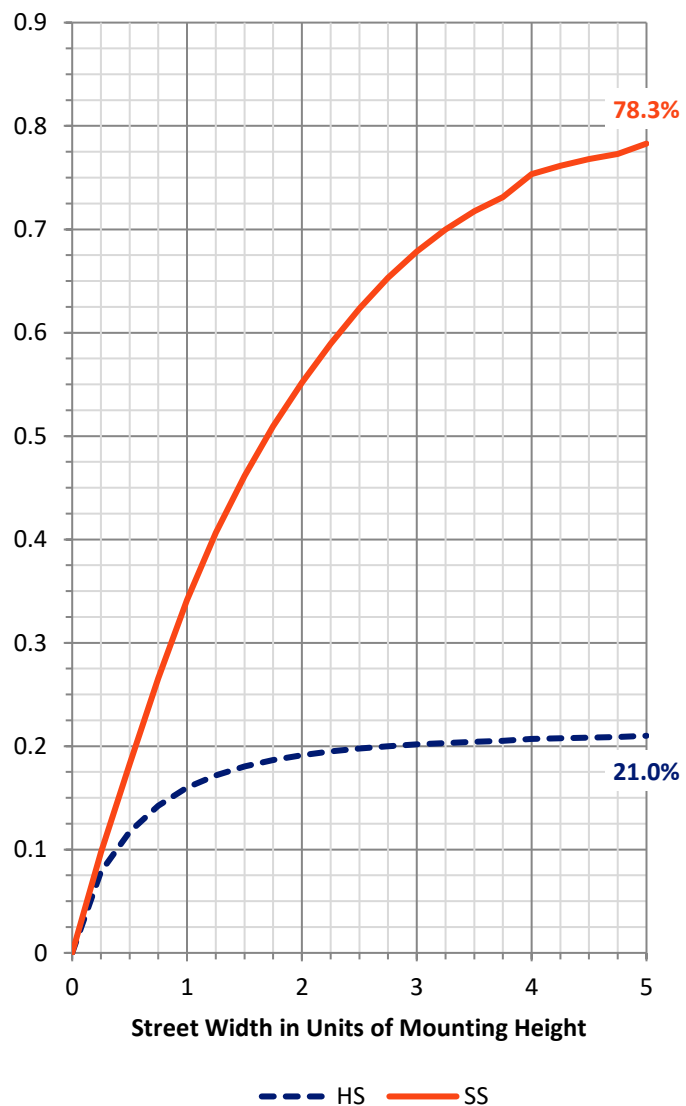
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4465.8	0.0	4465.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	16519.2	0.0	16519.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	20985.0	0.0	20985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.4	1.4
10°-20°	797.7	3.8
20°-30°	1315.1	6.3
30°-40°	1969.9	9.4
40°-50°	2863.7	13.6
50°-60°	4000.0	19.1
60°-70°	5007.8	23.9
70°-80°	4141.0	19.7
80°-90°	598.3	2.9
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°	20985.0	100.0
0°-180°	20985.0	100.0

Coefficient of Utilization



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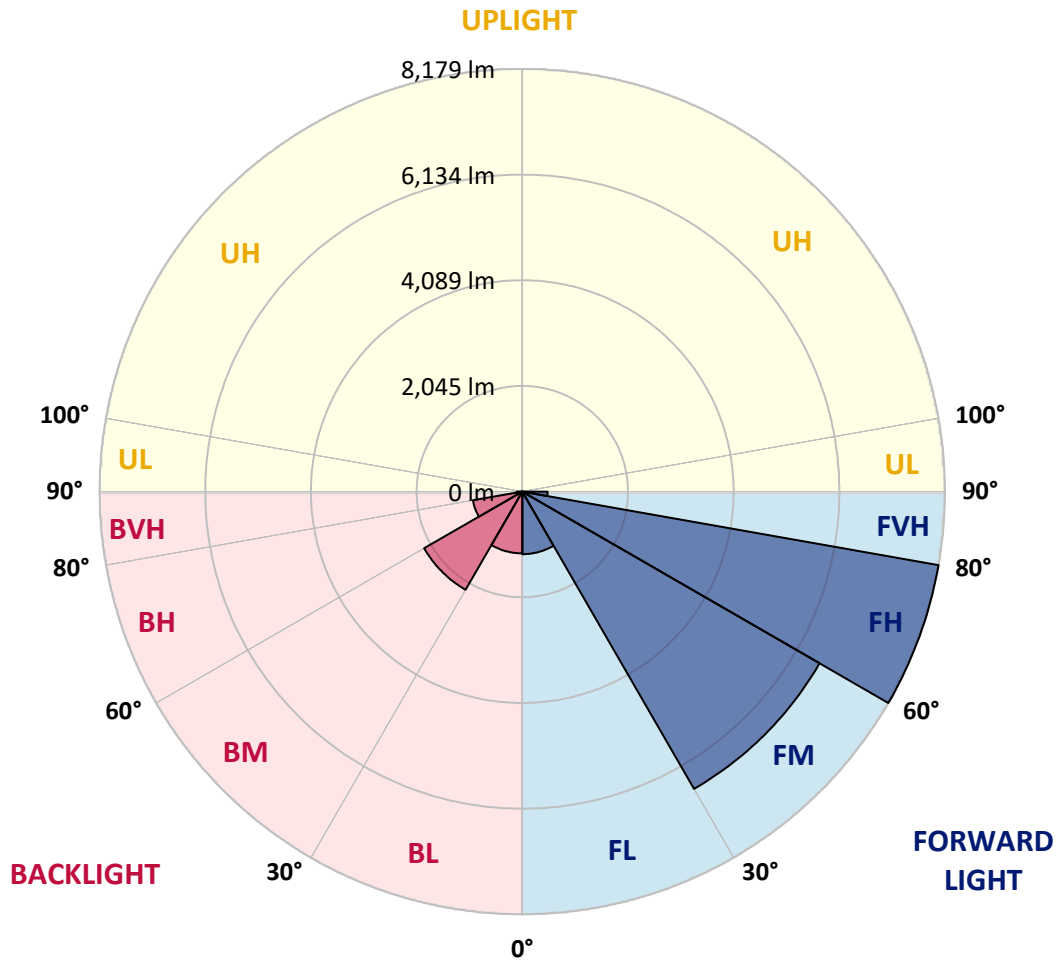
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1209.7	5.8			
FM (30°-60°)	6640.5	31.6			
FH (60°-80°)	8178.8	39.0			G4/12000
FVH (80°-90°)	490.2	2.3			G3/500
BL (0°-30°)	1194.5	5.7	B3/2500		
BM (30°-60°)	2193.1	10.5	B2/2500		
BH (60°-80°)	969.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	108.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0
2.5°	2961.0	2976.1	2984.3	3013.3	3020.3	3029.6	3054.0	3086.6	3128.4	3165.6	3198.2
5°	2714.6	2737.8	2751.8	2777.3	2827.3	2832.0	2897.1	2971.5	3056.4	3135.4	3200.5
7.5°	2480.9	2506.5	2518.1	2564.6	2630.9	2641.3	2736.6	2854.1	2995.9	3115.6	3215.6
10°	2305.3	2318.1	2343.7	2378.6	2457.6	2464.6	2589.0	2745.9	2929.6	3106.3	3241.2
12.5°	2210.0	2217.0	2222.8	2260.0	2337.9	2348.4	2478.6	2656.4	2877.3	3113.3	3283.0
15°	2224.0	2226.3	2200.7	2207.7	2270.5	2285.6	2414.6	2597.1	2844.8	3130.8	3345.8
17.5°	2341.4	2333.2	2270.5	2237.9	2282.1	2289.1	2401.8	2573.9	2829.7	3163.3	3410.9
20°	2526.2	2514.6	2406.5	2334.4	2360.0	2365.8	2443.7	2591.3	2844.8	3216.8	3512.1
22.5°	2756.4	2751.8	2587.8	2500.7	2499.5	2499.5	2540.2	2654.1	2890.1	3290.0	3617.9
25°	3078.4	3054.0	2840.1	2727.3	2696.0	2693.6	2689.0	2757.6	2948.2	3367.9	3743.4
27.5°	3408.6	3366.8	3176.1	3002.9	2935.4	2927.3	2897.1	2904.1	3022.6	3456.3	3886.4
30°	3705.1	3678.3	3499.3	3307.5	3227.2	3208.6	3124.9	3086.6	3147.0	3615.5	4114.3
32.5°	3931.8	3915.5	3776.0	3601.6	3483.0	3479.5	3357.5	3326.1	3341.2	3808.5	4374.7
35°	4115.4	4121.2	4050.3	3899.2	3763.2	3743.4	3662.0	3622.5	3578.3	4087.5	4702.5
37.5°	4366.5	4379.3	4374.7	4244.5	4078.2	4082.9	4064.3	3999.2	3881.8	4399.1	5066.4
40°	4643.2	4652.5	4651.4	4601.4	4514.2	4518.8	4511.9	4437.5	4261.9	4795.5	5471.0
42.5°	5025.7	4981.5	4866.4	4916.4	4967.6	4989.7	5037.3	4966.4	4725.8	5218.7	5851.1
45°	5453.5	5369.8	5109.4	5132.7	5322.2	5364.0	5626.8	5529.1	5229.2	5704.6	6298.7
47.5°	5723.2	5640.7	5421.0	5416.3	5667.4	5708.1	6173.2	6137.1	5687.2	6229.0	6845.1
50°	5963.9	5952.3	5704.6	5763.9	6009.2	6069.7	6768.4	6734.7	6144.1	6847.4	7440.3
52.5°	6320.8	6226.6	6029.0	6151.1	6475.4	6554.5	7359.0	7260.1	6563.8	7393.8	8018.1
55°	6481.2	6459.1	6447.5	6553.3	6998.6	7055.5	7933.3	7706.6	6921.8	7856.5	8457.6
57.5°	6910.2	6869.5	6984.6	7056.7	7614.7	7701.9	8533.1	8172.7	7235.7	8223.9	8671.5
60°	7465.9	7443.8	7549.6	7679.8	8302.9	8435.5	9216.7	8570.3	7488.0	8408.7	8554.1
62.5°	8296.0	8293.6	8273.9	8552.9	9278.3	9400.4	10001.4	8957.5	7527.5	8270.4	7947.2
65°	9486.4	9444.6	9272.5	9577.1	10492.0	10635.0	10818.7	9173.7	7289.2	7560.1	6691.7
67.5°	10731.5	10729.2	10589.7	10985.0	12234.7	12382.3	11840.6	9126.0	6627.7	6124.3	4752.5
70°	11763.9	11713.9	11891.7	12945.0	14461.0	14631.9	12734.6	8564.5	5279.2	4044.5	2823.8
72.5°	12011.5	12013.8	12383.5	14456.3	16598.9	16625.7	13056.6	6941.6	3533.0	2230.9	1412.5
74°	11248.9	11268.6	11841.8	14531.9	16997.7	16876.8	12233.5	5455.9	2389.0	1456.7	1018.4
75°	10267.7	10143.3	10972.2	14028.5	16583.8	16453.6	11269.8	4378.2	1822.9	1163.7	891.7
77.5°	5489.6	5616.3	6895.1	10468.8	13472.8	13322.9	7641.5	2099.6	984.7	810.3	641.7
80°	1954.3	2155.4	3029.6	5477.9	8637.8	8684.3	3646.9	962.6	692.9	597.6	453.4
82.5°	797.5	819.6	1300.9	2430.9	4386.3	4428.2	1489.2	572.0	495.2	411.5	270.9
85°	311.6	320.9	575.5	1092.8	1871.7	1993.8	515.0	302.3	304.6	236.0	138.3
87.5°	104.6	118.6	236.0	363.9	635.9	623.1	150.0	89.5	109.3	102.3	43.0
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°	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0	3204.0
2.5°	3214.5	3236.5	3251.7	3267.9	3283.0	3287.7	3284.2	3294.7	3295.8	3297.0	3298.2
5°	3233.1	3263.3	3292.3	3308.6	3315.6	3309.8	3290.0	3279.6	3270.3	3263.3	3265.6
7.5°	3258.6	3301.6	3328.4	3335.4	3316.8	3290.0	3241.2	3202.8	3178.4	3162.1	3161.0
10°	3298.2	3340.0	3362.1	3342.3	3291.2	3226.1	3149.4	3077.3	3022.6	3006.4	3005.2
12.5°	3348.2	3395.8	3394.7	3336.5	3247.0	3130.8	3006.4	2922.7	2848.3	2811.1	2826.2
15°	3413.3	3449.3	3415.6	3310.9	3169.1	3009.8	2856.4	2742.5	2658.8	2619.2	2621.6
17.5°	3488.8	3520.2	3430.7	3265.6	3059.8	2855.2	2677.4	2569.2	2503.0	2473.9	2471.6
20°	3583.0	3592.3	3430.7	3186.6	2919.2	2675.0	2505.3	2429.7	2392.5	2377.4	2382.1
22.5°	3684.1	3665.5	3412.1	3075.0	2734.3	2486.7	2372.8	2339.1	2320.5	2318.1	2320.5
25°	3798.1	3745.7	3373.7	2923.8	2541.3	2323.9	2257.7	2263.5	2267.0	2267.0	2275.1
27.5°	3937.6	3832.9	3309.8	2733.2	2315.8	2172.8	2154.2	2194.9	2213.5	2217.0	2222.8
30°	4121.2	3928.3	3204.0	2494.8	2124.0	2036.8	2069.3	2124.0	2144.9	2157.7	2155.4
32.5°	4339.8	4032.9	3061.0	2256.5	1969.4	1941.5	1981.0	2036.8	2060.0	2067.0	2057.7
35°	4596.7	4151.5	2872.7	2033.3	1834.5	1850.8	1897.3	1914.7	1935.6	1935.6	1940.3
37.5°	4873.4	4246.8	2642.5	1828.7	1729.9	1789.2	1822.9	1806.6	1797.3	1785.7	1791.5
40°	5154.8	4317.7	2343.7	1626.4	1625.2	1725.2	1734.5	1688.0	1650.8	1639.2	1633.4
42.5°	5400.1	4361.9	2074.0	1469.5	1526.4	1662.4	1669.4	1595.0	1535.7	1500.9	1489.2
45°	5689.5	4413.0	1810.1	1339.3	1434.6	1612.5	1629.9	1529.9	1442.7	1369.5	1350.9
47.5°	6086.0	4529.3	1602.0	1238.1	1368.3	1581.1	1605.5	1476.4	1361.3	1266.0	1250.9
50°	6533.5	4688.6	1440.4	1169.5	1317.2	1553.2	1583.4	1421.8	1285.8	1180.0	1168.4
52.5°	6943.9	4774.6	1300.9	1107.9	1267.2	1502.0	1554.3	1382.3	1211.4	1094.0	1083.5
55°	7168.3	4635.1	1163.7	1047.5	1198.6	1435.8	1513.6	1327.6	1139.3	1048.6	1033.5
57.5°	7198.5	4346.8	1039.3	982.4	1126.5	1354.4	1438.1	1261.4	1092.8	1017.2	1004.4
60°	6964.9	3916.6	942.8	928.9	1053.3	1262.5	1353.2	1203.2	1045.1	982.4	969.6
62.5°	6383.6	3449.3	875.4	880.1	978.9	1166.0	1290.4	1147.4	999.8	944.0	932.4
65°	5383.8	2847.1	810.3	830.1	912.6	1090.5	1233.5	1100.9	954.5	914.9	904.5
67.5°	3739.9	2055.4	756.8	777.7	849.8	1013.7	1167.2	1050.9	903.3	882.4	866.1
70°	2070.5	1264.9	694.0	718.5	784.7	927.7	1092.8	975.4	828.9	819.6	796.3
72.5°	1088.1	805.6	623.1	649.9	696.4	817.3	978.9	892.8	755.7	716.1	685.9
74°	849.8	660.3	575.5	603.4	634.8	752.2	911.4	833.6	703.3	656.8	633.6
75°	740.5	588.3	534.8	570.8	598.7	708.0	859.1	791.7	674.3	630.1	609.2
77.5°	523.1	440.6	437.1	480.1	495.2	620.8	774.3	720.8	601.0	554.5	534.8
80°	367.4	330.2	346.4	373.2	394.1	548.7	718.5	623.1	492.9	438.3	431.3
82.5°	239.5	216.2	247.6	272.0	279.0	404.6	580.1	473.2	359.2	291.8	270.9
85°	110.4	108.1	141.8	138.3	137.2	197.6	344.1	276.7	206.9	154.6	145.3
87.5°	27.9	26.7	34.9	29.1	34.9	30.2	31.4	8.1	1.2	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)