

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: P651293

Luminaire Tested: **GALN-SA3D-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19010.8 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

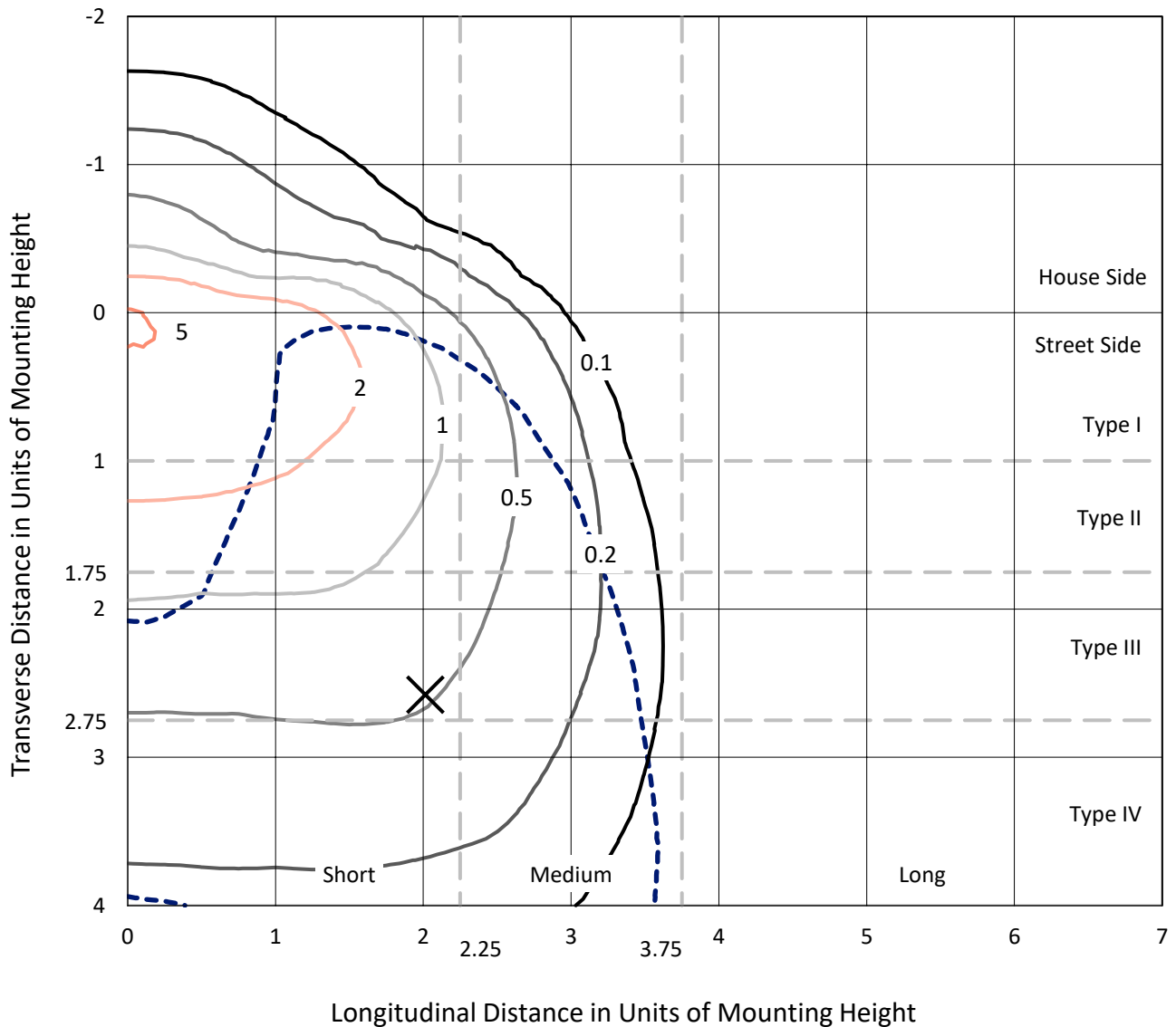
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

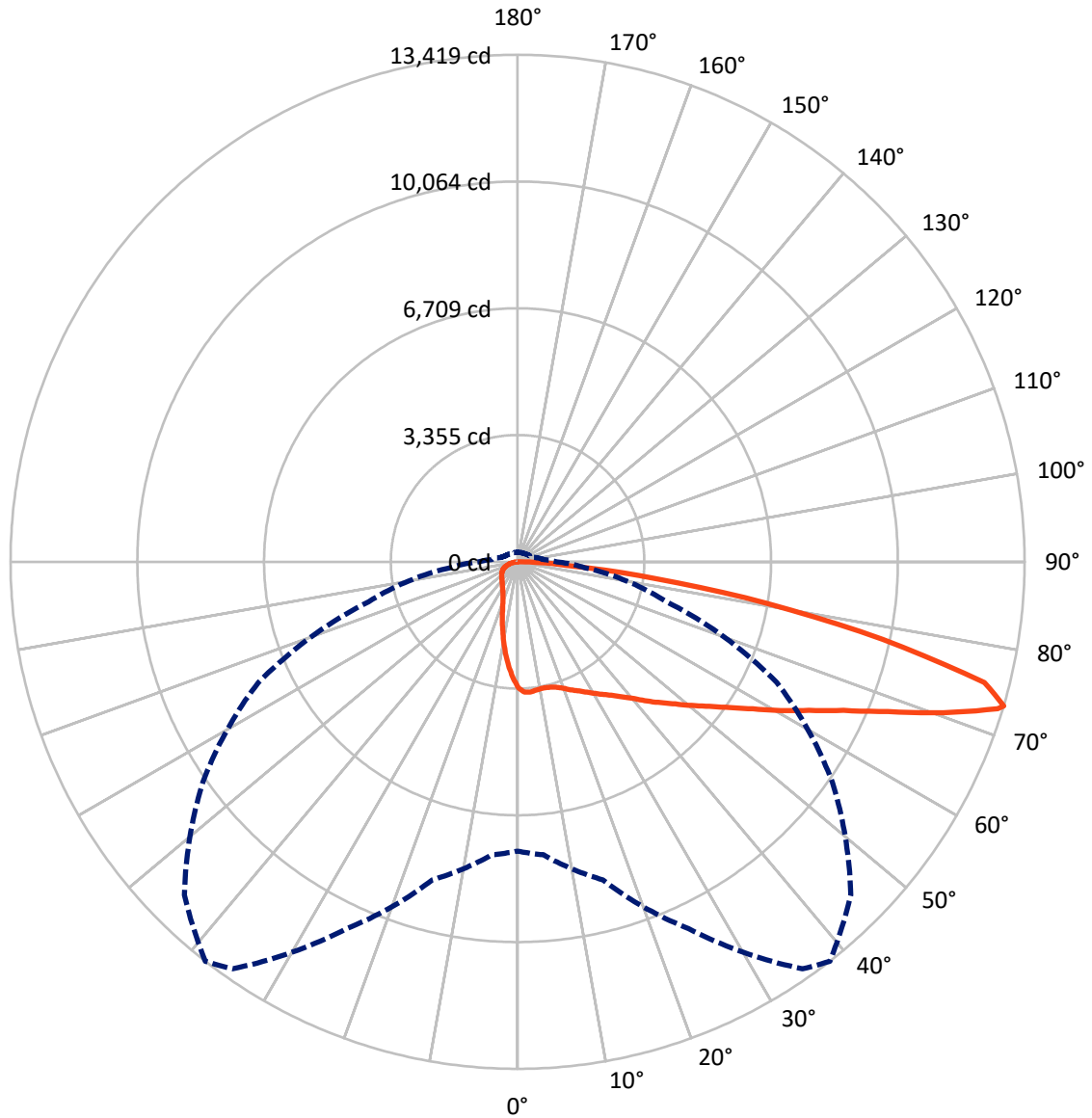
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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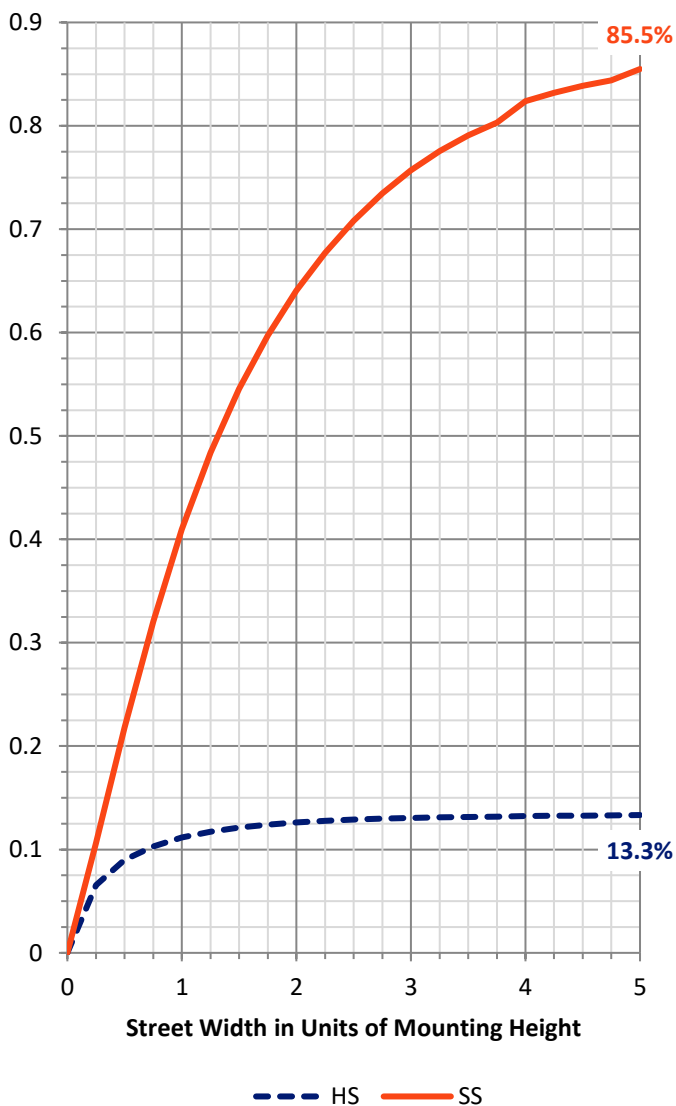
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2555.6	0.0	2555.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16455.2	0.0	16455.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	19010.8	0.0	19010.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	1.5
10°-20°	747.6	3.9
20°-30°	1164.1	6.1
30°-40°	1707.5	9.0
40°-50°	2532.9	13.3
50°-60°	3588.7	18.9
60°-70°	4552.3	23.9
70°-80°	3789.5	19.9
80°-90°	636.7	3.3
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°	19010.8	100.0
0°-180°	19010.8	100.0

Coefficient of Utilization



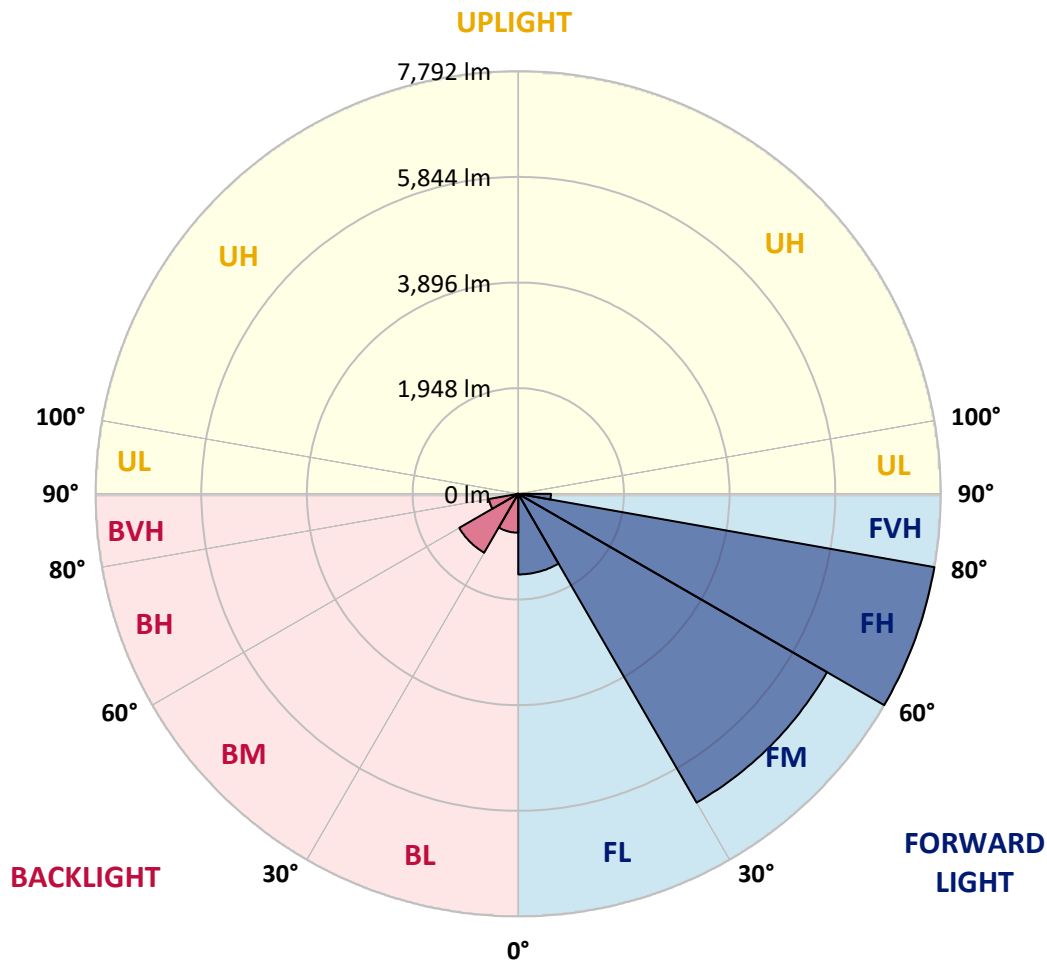
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1486.1	7.8			
FM (30°-60°)	6574.4	34.6			
FH (60°-80°)	7792.5	41.0			G4/12000
FVH (80°-90°)	602.2	3.2			G4/750
BL (0°-30°)	717.1	3.8	B2/1000		
BM (30°-60°)	1254.7	6.6	B2/2500		
BH (60°-80°)	549.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	34.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9
2.5°	3474.1	3491.2	3482.7	3470.9	3463.3	3455.8	3445.1	3414.0	3389.2	3362.4	3320.5
5°	3499.8	3510.6	3503.0	3488.0	3470.9	3463.3	3443.0	3402.2	3362.4	3317.3	3255.1
7.5°	3484.8	3489.1	3480.5	3462.2	3447.3	3433.3	3409.7	3364.6	3316.2	3261.5	3179.9
10°	3431.1	3447.3	3447.3	3432.2	3417.2	3409.7	3386.0	3343.1	3299.1	3236.8	3140.2
12.5°	3387.1	3404.3	3418.2	3414.0	3412.9	3412.9	3394.6	3362.4	3310.8	3251.8	3136.9
15°	3357.0	3377.5	3407.5	3424.7	3435.4	3438.7	3431.1	3403.2	3350.6	3281.9	3149.9
17.5°	3350.6	3375.3	3430.0	3467.6	3495.5	3494.4	3492.3	3453.7	3395.7	3324.8	3165.9
20°	3379.6	3411.8	3488.0	3547.1	3587.9	3580.4	3568.5	3518.1	3450.5	3371.0	3181.0
22.5°	3466.5	3499.8	3583.6	3648.0	3687.7	3687.7	3652.3	3585.7	3513.8	3424.7	3201.4
25°	3591.1	3627.6	3716.7	3782.1	3800.5	3786.5	3751.0	3670.5	3587.9	3502.0	3244.3
27.5°	3743.5	3787.5	3870.2	3924.9	3919.6	3908.9	3872.4	3769.3	3686.6	3608.3	3317.3
30°	3933.5	3965.7	4051.7	4064.6	4045.2	4043.0	3991.6	3888.4	3811.2	3751.0	3421.4
32.5°	4112.8	4141.8	4210.6	4215.9	4181.5	4185.8	4137.6	4043.0	3999.0	3977.6	3596.5
35°	4302.9	4317.9	4377.0	4370.5	4348.0	4344.8	4325.4	4235.2	4249.2	4287.8	3844.5
37.5°	4461.8	4491.8	4525.1	4530.5	4529.4	4540.1	4553.0	4510.0	4590.6	4711.9	4169.8
40°	4607.8	4633.5	4682.9	4700.1	4742.0	4763.4	4807.4	4808.5	4994.3	5193.9	4570.2
42.5°	4706.6	4750.6	4842.9	4874.0	4976.0	5040.4	5105.9	5175.7	5445.1	5701.7	5042.6
45°	4792.4	4850.4	5004.0	5100.5	5239.0	5317.4	5455.9	5601.9	5989.4	6325.5	5522.4
47.5°	4922.3	4973.8	5149.9	5320.6	5530.0	5620.2	5827.4	6045.3	6552.0	6920.3	5981.9
50°	5102.7	5133.8	5313.1	5591.1	5858.5	5974.4	6248.2	6562.7	7153.2	7507.4	6385.6
52.5°	5333.5	5346.4	5489.1	5859.6	6211.7	6355.5	6718.4	7085.6	7679.3	8017.4	6705.5
55°	5606.2	5584.7	5696.3	6144.0	6615.3	6803.2	7192.9	7614.8	8270.8	8429.7	6938.5
57.5°	5875.6	5842.3	5931.5	6489.7	7113.5	7340.0	7794.1	8160.2	8799.0	8815.1	7101.7
60°	6161.3	6136.5	6242.8	6895.5	7724.3	7992.7	8412.5	8726.0	9310.0	9083.5	7127.4
62.5°	6454.3	6414.6	6565.9	7351.8	8412.5	8656.2	9063.0	9327.2	9811.4	9183.3	6879.5
65°	6738.8	6720.5	6954.6	7894.0	9196.2	9473.2	9868.3	10047.5	10212.9	9033.0	6264.3
67.5°	7041.5	7078.0	7451.7	8617.6	10218.2	10566.1	10992.3	10823.8	10327.7	8321.3	5275.5
70°	7503.1	7526.8	8104.4	9565.5	11535.5	11955.2	12161.4	11099.6	9773.8	6969.6	3965.7
72.5°	7701.8	7805.9	8687.4	10560.7	13032.1	13288.6	12554.4	10484.5	8142.0	4734.4	2083.8
73°	7657.8	7782.3	8714.2	10712.1	13149.1	13418.6	12470.6	10167.8	7568.7	4077.4	1786.5
75°	7109.1	7262.7	8365.3	10585.4	12921.5	12760.5	11124.3	8665.8	5114.5	1854.1	813.8
77.5°	5609.4	5653.5	6628.3	8547.8	10175.3	9876.9	8325.6	5416.1	2089.1	689.2	461.6
80°	2813.8	2976.0	3736.1	4896.6	6804.3	6706.6	5255.2	2561.5	870.7	404.8	306.0
82.5°	1353.8	1468.6	1819.7	2387.6	3759.6	3670.5	2602.3	1399.9	552.9	236.2	180.4
85°	871.8	957.6	1158.4	1139.1	1545.9	1476.1	1169.2	1059.6	327.4	123.5	125.6
87.5°	575.4	630.2	755.8	604.4	562.5	508.9	516.4	596.9	64.4	47.3	17.2
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°	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9	3339.9
2.5°	3303.4	3289.4	3243.2	3198.2	3155.3	3114.4	3087.6	3052.2	3028.5	3035.0	3044.7
5°	3220.7	3189.6	3108.0	3028.5	2953.4	2864.3	2792.4	2734.3	2690.4	2674.3	2671.0
7.5°	3133.7	3081.2	2964.1	2827.8	2700.0	2589.4	2461.7	2398.4	2324.3	2298.5	2290.0
10°	3081.2	3010.3	2846.0	2656.0	2463.9	2280.3	2141.8	2029.1	1927.1	1907.7	1898.1
12.5°	3066.1	2972.7	2751.6	2506.8	2251.3	2025.8	1820.8	1672.6	1573.8	1551.3	1518.0
15°	3057.5	2941.6	2663.5	2356.5	2032.3	1757.4	1541.6	1368.8	1278.7	1218.5	1219.5
17.5°	3050.0	2906.2	2564.8	2192.2	1843.3	1526.6	1288.2	1132.6	1050.0	1017.8	1014.5
20°	3039.3	2864.3	2450.9	2019.4	1627.5	1316.2	1100.4	984.5	928.6	901.8	900.7
22.5°	3035.0	2823.5	2339.3	1843.3	1436.4	1154.1	975.9	894.3	858.8	840.6	840.6
25°	3045.7	2794.5	2222.3	1675.9	1266.8	1015.6	890.0	834.2	813.8	804.1	800.9
27.5°	3079.0	2781.6	2106.4	1508.3	1111.1	921.1	832.0	793.4	778.3	770.9	771.9
30°	3142.3	2780.5	1992.6	1343.1	995.2	849.2	785.8	759.0	747.2	742.9	741.8
32.5°	3244.3	2804.1	1880.9	1206.7	897.5	789.1	742.9	723.6	718.2	715.0	713.9
35°	3417.2	2870.8	1770.3	1082.2	822.3	735.4	702.2	692.5	684.9	688.2	689.2
37.5°	3650.1	2985.6	1665.1	984.5	765.5	695.7	667.8	659.2	654.9	658.1	661.3
40°	3962.5	3150.9	1577.0	906.1	724.7	662.4	637.7	630.2	625.9	631.3	632.3
42.5°	4307.2	3342.0	1504.0	844.9	691.4	634.5	610.9	602.2	599.0	602.2	603.3
45°	4661.4	3564.2	1466.5	800.9	663.5	614.1	589.4	579.7	572.2	570.0	573.3
47.5°	5010.3	3757.5	1465.4	774.1	640.9	595.8	569.0	558.3	548.6	543.2	542.2
50°	5294.9	3911.0	1491.2	762.2	621.6	575.4	548.6	537.8	525.0	514.3	516.4
52.5°	5509.6	4010.9	1503.0	756.9	610.9	554.0	527.1	517.5	502.4	488.5	488.5
55°	5648.1	4034.4	1474.0	751.5	602.2	531.4	502.4	493.8	478.8	464.8	464.8
57.5°	5695.3	3961.4	1369.9	738.7	593.7	512.1	477.8	470.2	458.4	444.5	442.3
60°	5585.8	3714.5	1187.4	700.0	576.5	491.7	450.9	447.7	443.4	431.6	430.5
62.5°	5163.9	3190.7	988.8	649.5	547.5	470.2	426.2	431.6	434.8	428.3	427.3
65°	4461.8	2590.5	844.9	579.7	508.9	440.2	399.4	413.4	421.9	421.9	419.7
67.5°	3619.0	1989.3	711.7	519.6	460.5	399.4	369.3	380.0	386.5	384.3	389.7
70°	2572.3	1347.4	579.7	450.9	399.4	353.2	330.7	330.7	326.4	324.2	324.2
72.5°	1247.5	769.8	470.2	376.9	340.4	301.7	283.4	275.9	267.4	266.3	260.9
73°	1042.4	690.3	448.8	362.9	326.4	294.2	273.7	262.0	256.6	252.3	251.2
75°	634.5	523.9	374.7	306.0	278.0	253.4	235.1	224.4	219.0	215.8	214.7
77.5°	417.6	390.8	290.9	234.1	212.6	197.6	190.0	179.3	176.1	171.7	171.7
80°	311.3	298.5	208.2	165.3	152.5	139.6	137.4	135.2	126.7	121.3	119.2
82.5°	200.7	212.6	141.7	110.6	96.6	85.9	87.0	90.2	81.6	74.1	71.9
85°	142.8	153.5	85.9	50.5	40.8	35.4	39.7	35.4	36.5	29.0	23.6
87.5°	23.6	40.8	15.1	6.5	3.2	2.2	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)