

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: P651308

Luminaire Tested: **GALN-SA3D-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
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-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15549.3 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

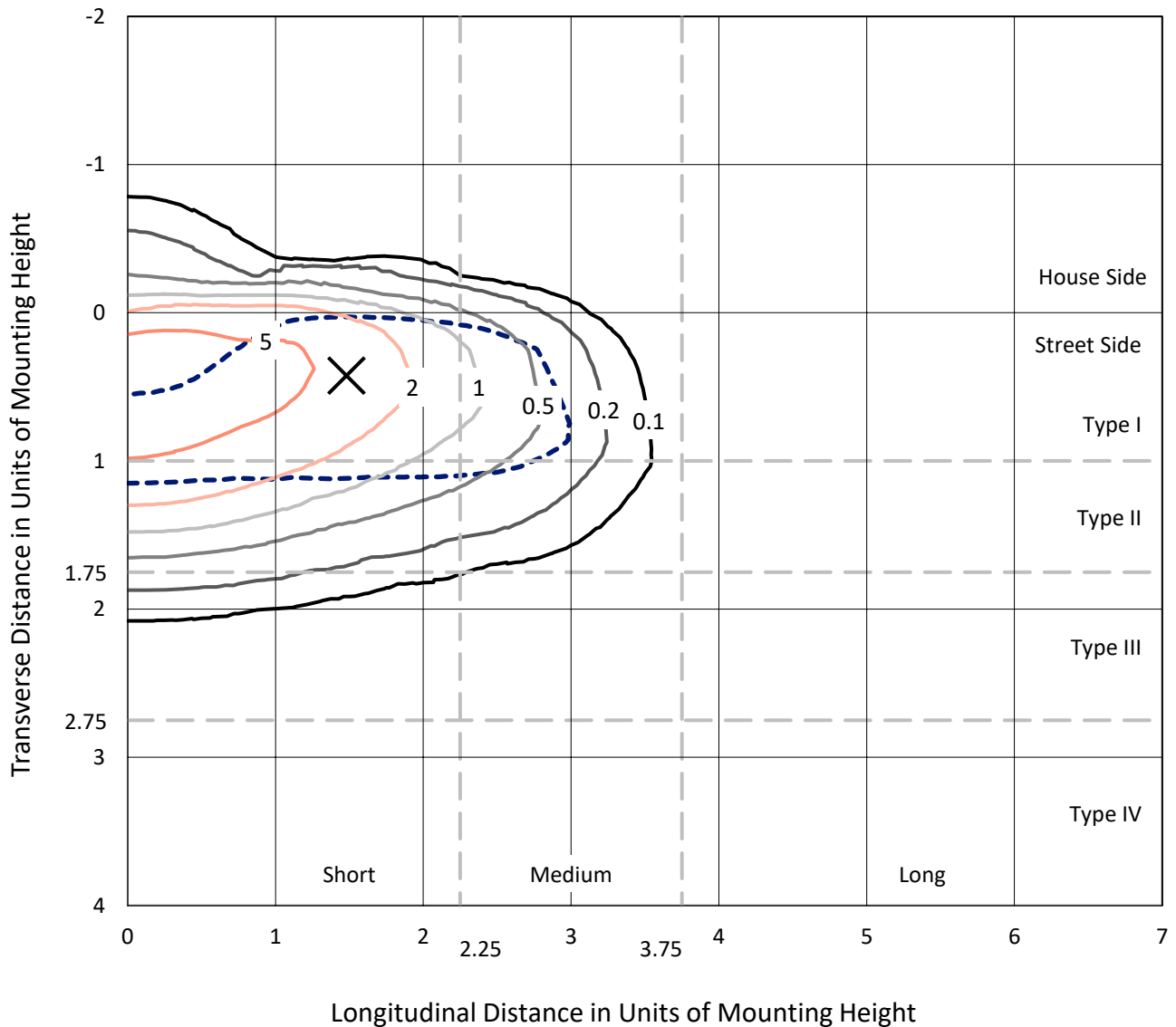
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

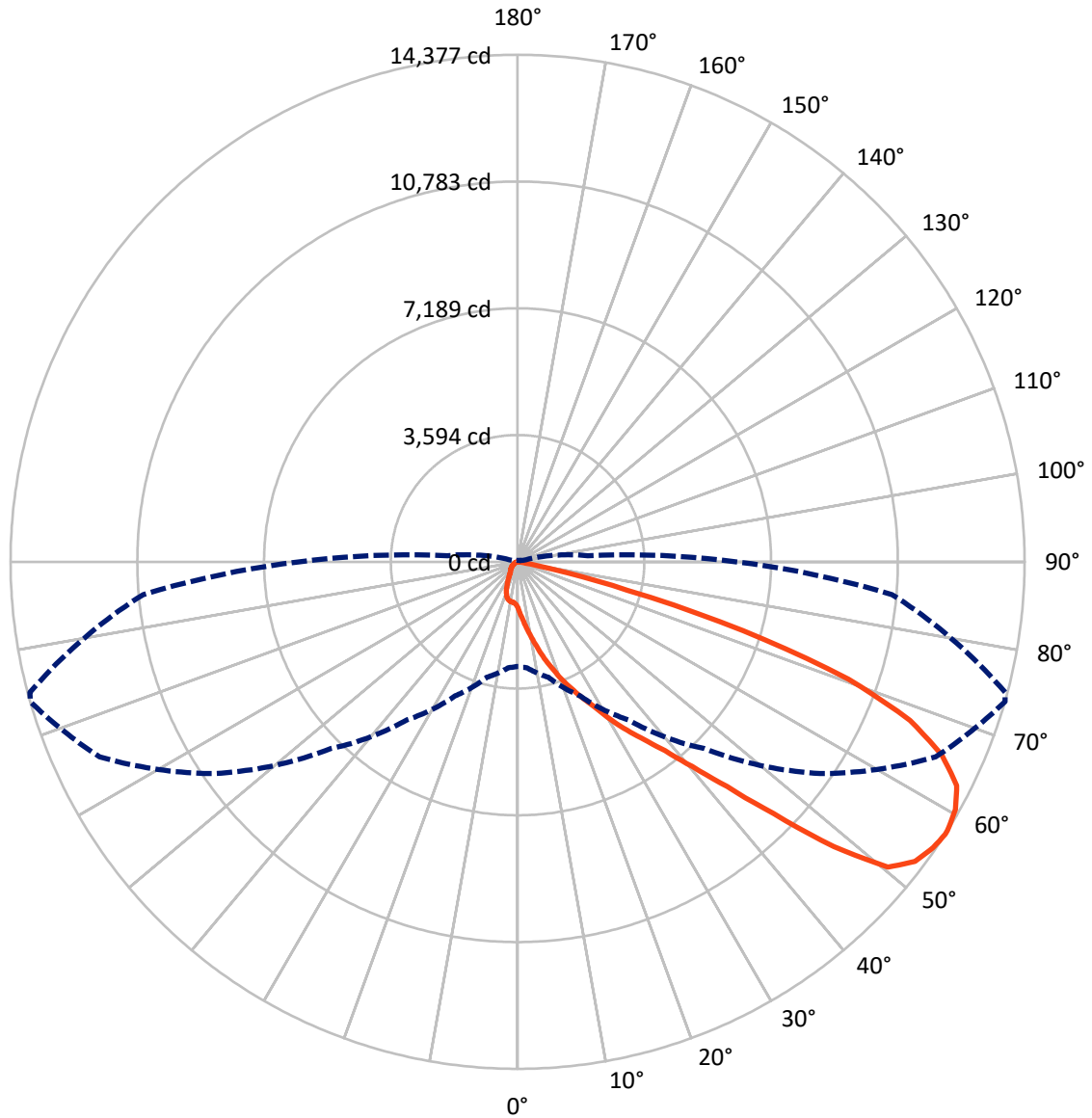
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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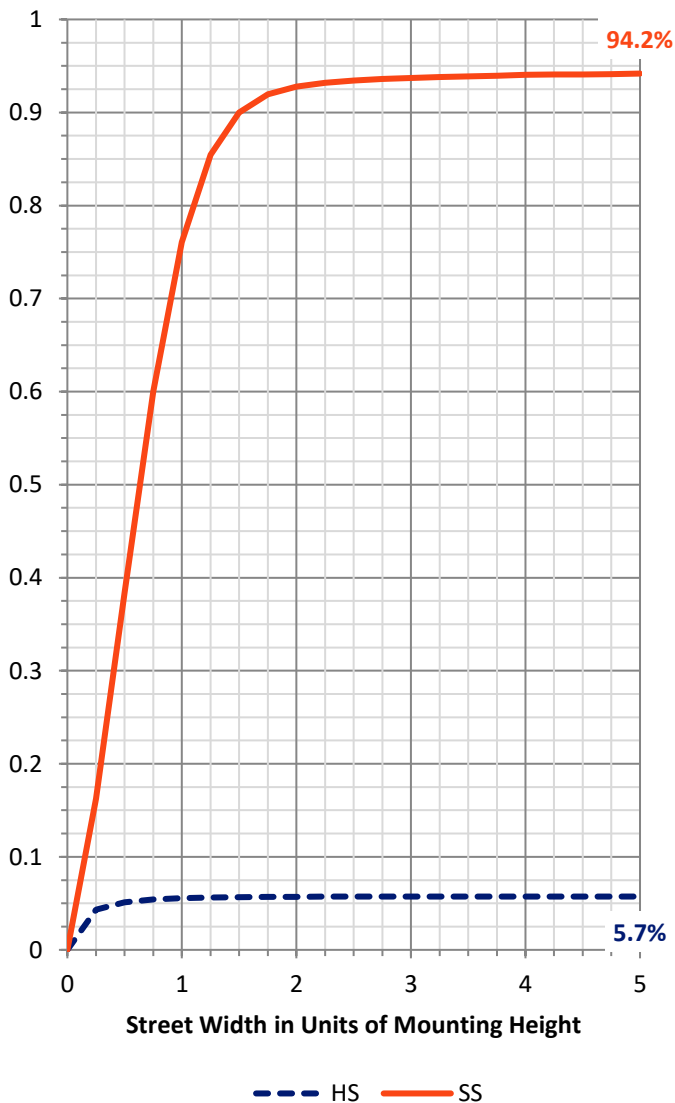
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.8	0.0	896.8
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	14652.4	0.0	14652.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	15549.3	0.0	15549.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	1.0
10°-20°	619.6	4.0
20°-30°	1325.7	8.5
30°-40°	2436.6	15.7
40°-50°	3735.3	24.0
50°-60°	3951.5	25.4
60°-70°	2580.4	16.6
70°-80°	705.1	4.5
80°-90°	38.0	0.2
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°	15549.3	100.0
0°-180°	15549.3	100.0

Coefficient of Utilization

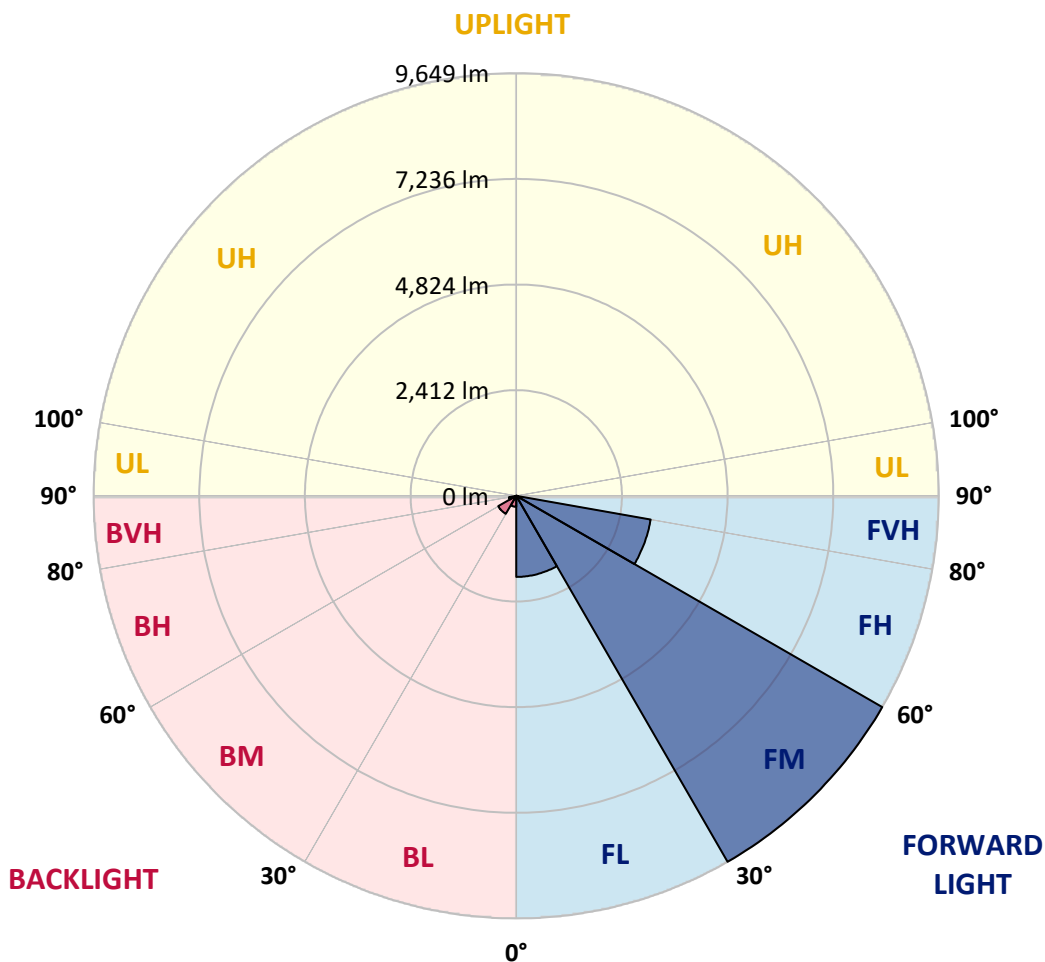


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1851.9	11.9			
FM (30°-60°)	9648.6	62.1			
FH (60°-80°)	3117.1	20.0			G2/5000
FVH (80°-90°)	34.8	0.2			G1/100
BL (0°-30°)	250.5	1.6	B1/500		
BM (30°-60°)	474.8	3.1	B1/1000		
BH (60°-80°)	168.4	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2
2.5°	1905.5	1888.4	1854.1	1842.2	1791.8	1713.4	1644.7	1552.4	1479.4	1471.8	1383.8
5°	2551.8	2513.2	2497.1	2419.8	2298.5	2184.7	1989.3	1841.1	1670.5	1657.6	1480.4
7.5°	3174.5	3120.9	3104.7	3031.7	2890.0	2710.7	2457.4	2187.9	1917.4	1892.7	1610.3
10°	3625.4	3633.0	3603.9	3555.7	3440.8	3258.3	2945.9	2577.6	2192.2	2161.1	1756.3
12.5°	3948.6	3947.5	3952.9	3951.8	3890.6	3752.1	3423.6	2999.5	2495.0	2433.8	1923.8
15°	4159.0	4162.2	4178.3	4234.1	4240.6	4154.7	3881.0	3403.2	2846.0	2769.7	2105.3
17.5°	4371.5	4394.1	4419.9	4472.4	4519.7	4485.3	4292.1	3824.0	3163.8	3106.9	2299.5
20°	4722.6	4753.8	4738.7	4770.9	4795.6	4798.8	4649.6	4212.7	3549.2	3453.7	2521.8
22.5°	5284.1	5283.0	5244.3	5186.4	5138.1	5135.9	5000.7	4612.0	3899.2	3806.9	2745.1
25°	5993.7	5996.9	5921.7	5756.4	5636.2	5489.1	5333.5	4962.0	4273.9	4160.0	2980.2
27.5°	6807.5	6787.0	6673.3	6445.7	6207.3	5956.1	5731.8	5368.9	4671.1	4576.6	3249.7
30°	7538.6	7531.1	7397.9	7119.8	6806.4	6554.1	6228.8	5878.8	5185.3	5069.4	3551.4
32.5°	8219.2	8229.9	8045.3	7757.6	7454.8	7163.9	6820.3	6366.2	5689.9	5525.6	3879.9
35°	8750.6	8761.4	8570.2	8330.9	8019.5	7778.0	7450.5	6885.9	6188.0	6049.5	4257.7
37.5°	9034.0	9048.0	8937.4	8757.0	8562.7	8441.4	8136.5	7554.6	6793.5	6709.8	4704.4
40°	9087.7	9103.8	9055.5	9007.2	8996.4	9083.4	8994.3	8342.6	7633.0	7502.1	5370.0
42.5°	8926.6	8948.2	8969.6	9077.0	9296.0	9614.8	9925.1	9411.9	8714.1	8538.0	6183.7
45°	8503.7	8501.5	8586.4	8864.4	9355.0	10035.7	10897.7	10750.7	10187.0	9977.7	7333.5
47.5°	7780.1	7769.3	7952.9	8349.1	9113.5	10112.9	11691.1	12376.0	12066.8	11873.6	8569.2
50°	6677.5	6730.2	7018.9	7571.9	8513.4	9878.9	11935.8	13442.0	13609.6	13404.4	9567.6
52.5°	5386.0	5383.9	5837.0	6587.4	7624.4	9363.6	11765.2	13635.3	14110.9	13954.1	10059.3
55°	3986.2	4014.0	4485.3	5242.2	6470.3	8423.1	11208.0	13436.7	14302.0	14191.4	10383.5
57°	2965.2	3014.6	3392.4	4193.3	5465.5	7492.4	10466.2	13081.3	14377.1	14317.0	10652.9
57.5°	2767.6	2769.7	3138.0	3865.9	5171.3	7134.9	10253.6	12933.2	14375.0	14341.7	10696.9
60°	1703.8	1757.4	2011.8	2613.1	3785.3	5568.6	8829.0	12081.9	14263.4	14311.6	10884.8
62.5°	1019.9	1042.4	1207.8	1574.9	2440.2	4064.5	7225.0	10992.2	13972.4	14119.5	10871.9
65°	656.0	661.3	736.5	953.4	1525.5	2747.2	5567.5	9552.6	13219.8	13490.4	10446.8
67.5°	506.7	515.3	545.4	625.9	884.6	1711.3	3937.8	8016.2	12002.4	12351.3	9416.2
70°	449.9	454.1	464.8	490.6	585.1	966.2	2449.8	6262.1	9953.0	10051.7	7368.9
72.5°	367.2	379.0	412.3	420.8	463.8	603.3	1363.4	4203.0	6687.2	6711.9	4122.5
75°	284.5	286.6	336.1	360.7	390.8	415.5	608.7	2119.2	3212.1	3040.3	1588.9
77.5°	212.6	222.2	244.7	275.9	318.8	297.4	272.7	798.7	997.3	979.1	461.6
80°	136.3	141.7	170.7	207.2	248.0	194.4	153.5	234.1	219.0	225.5	110.6
82.5°	68.7	69.8	109.5	168.5	157.8	97.7	96.6	95.5	81.6	80.5	51.6
85°	7.5	16.1	70.9	96.6	70.9	32.2	45.1	44.0	43.0	44.0	30.0
87.5°	1.1	1.1	11.8	14.0	9.7	10.8	12.9	14.0	17.2	16.1	12.9
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°	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2	1302.2
2.5°	1340.9	1297.9	1218.5	1142.2	1085.4	1048.9	1001.6	984.5	959.7	956.6	944.7
5°	1398.8	1317.3	1178.7	1069.2	981.2	914.7	856.7	808.4	769.8	761.2	765.5
7.5°	1481.5	1360.2	1167.0	1017.7	895.3	781.5	689.2	632.3	591.6	576.5	578.6
10°	1574.9	1417.1	1164.8	962.9	776.2	636.6	535.7	485.3	461.6	453.0	443.4
12.5°	1685.5	1482.6	1159.5	878.2	645.2	507.8	435.9	405.8	383.2	376.9	376.9
15°	1810.0	1552.4	1133.7	773.0	523.9	419.7	371.5	347.8	340.4	333.9	333.9
17.5°	1939.9	1621.1	1080.0	643.0	434.8	359.6	329.6	315.6	304.9	297.4	297.4
20°	2088.0	1688.7	994.1	528.2	367.2	321.0	297.4	281.3	272.7	266.3	264.1
22.5°	2228.7	1743.5	884.6	433.7	319.9	288.8	267.4	250.1	241.5	238.3	238.3
25°	2374.7	1776.8	752.5	358.6	292.0	262.0	238.3	224.4	216.9	214.7	213.6
27.5°	2516.4	1796.0	636.6	313.4	266.3	237.2	214.7	203.9	196.5	194.4	195.4
30°	2688.2	1799.3	523.9	281.3	243.7	213.6	193.3	183.6	179.3	177.1	176.1
32.5°	2862.1	1795.0	440.2	262.0	222.2	193.3	176.1	168.5	165.3	162.1	162.1
35°	3057.5	1772.4	374.7	242.6	201.8	176.1	161.1	154.6	150.3	147.1	146.0
37.5°	3300.2	1760.6	337.1	221.2	183.6	160.0	146.0	139.5	136.3	132.0	130.9
40°	3682.3	1813.3	325.3	201.8	165.3	144.9	132.0	124.6	120.3	116.0	114.9
42.5°	4159.0	1905.5	306.0	182.5	149.2	130.9	118.1	109.5	102.0	96.6	94.4
45°	4776.3	2026.9	275.9	162.1	135.2	116.0	104.1	93.4	83.8	79.5	78.4
47.5°	5423.6	2143.9	249.1	146.0	120.3	103.0	90.2	78.4	69.8	66.5	65.5
50°	5820.8	2167.5	231.9	127.7	105.2	89.1	76.2	65.5	60.1	56.9	56.9
52.5°	6002.3	2129.9	208.2	111.7	91.2	78.4	65.5	56.9	53.7	51.6	50.5
55°	6129.0	2072.0	177.1	96.6	78.4	66.5	57.9	51.6	47.3	45.1	44.0
57°	6203.0	1993.6	153.5	84.8	67.6	57.9	51.6	46.2	41.9	37.6	37.6
57.5°	6206.2	1963.6	147.1	83.8	64.4	55.8	50.5	45.1	39.7	35.4	34.3
60°	6110.7	1757.4	118.1	70.9	51.6	47.3	41.9	35.4	27.9	23.6	22.5
62.5°	5803.7	1495.5	97.7	60.1	41.9	36.5	30.0	26.8	19.3	14.0	14.0
65°	5338.8	1213.1	83.8	48.3	34.3	26.8	20.4	19.3	11.8	6.5	5.4
67.5°	4666.8	944.7	70.9	39.7	29.0	19.3	14.0	12.9	6.5	2.2	0.0
70°	3555.7	644.1	59.0	32.2	21.4	14.0	9.7	7.5	4.3	1.1	0.0
72.5°	2049.4	354.3	49.4	24.7	16.1	10.8	7.5	4.3	4.3	0.0	0.0
75°	732.2	152.5	37.6	18.2	12.9	8.6	5.4	2.2	3.2	1.1	0.0
77.5°	233.0	81.6	24.7	14.0	10.8	6.5	4.3	2.2	2.2	1.1	0.0
80°	68.7	43.0	15.1	11.8	7.5	5.4	3.2	1.1	2.2	1.1	0.0
82.5°	37.6	21.4	11.8	8.6	7.5	4.3	3.2	1.1	1.1	1.1	0.0
85°	19.3	12.9	9.7	8.6	7.5	4.3	3.2	1.1	0.0	1.1	1.1
87.5°	10.8	9.7	9.7	8.6	7.5	5.4	3.2	1.1	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)