

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: P651720

Luminaire Tested: **GALN-SA2A-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7809.5 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

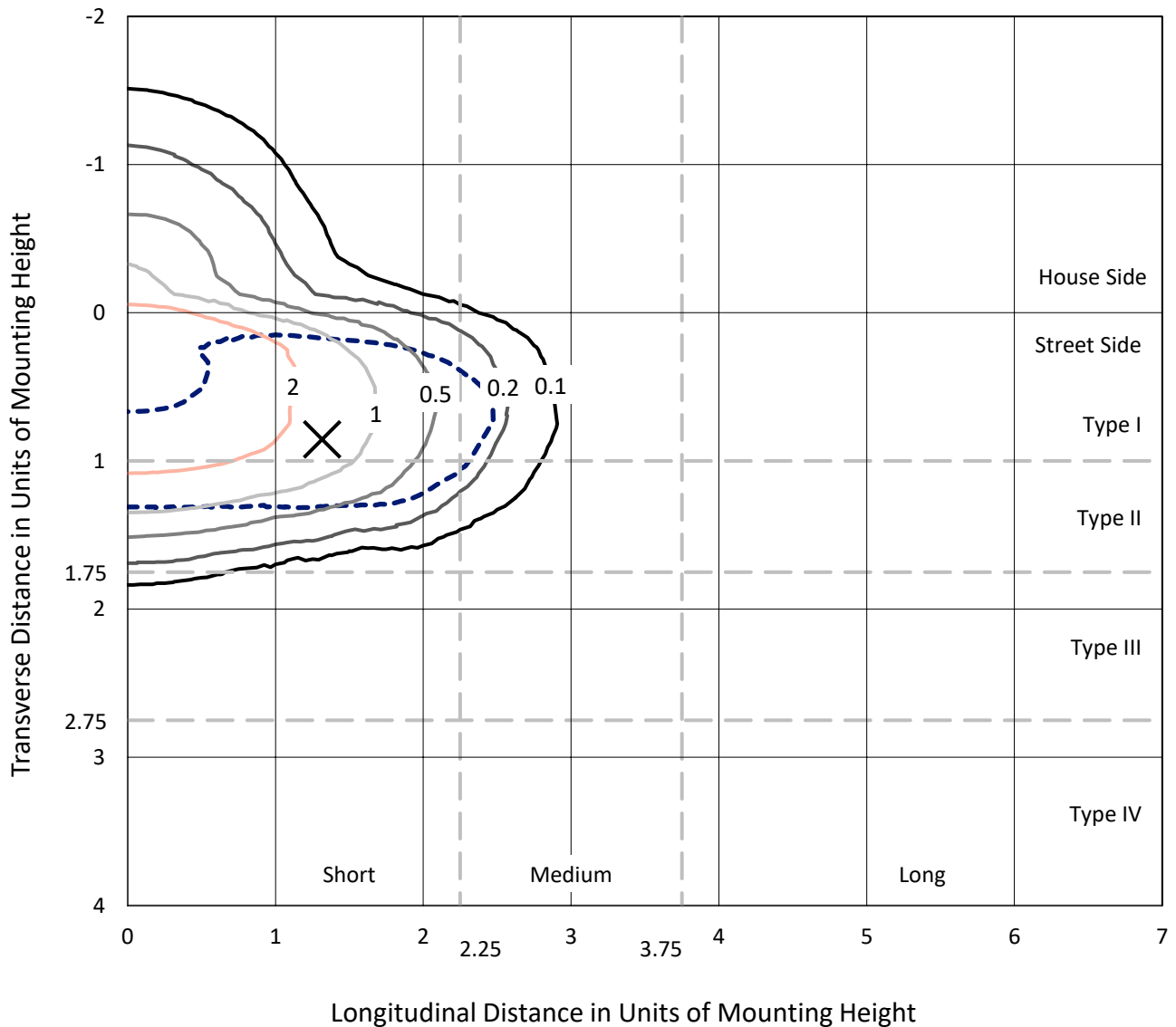
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

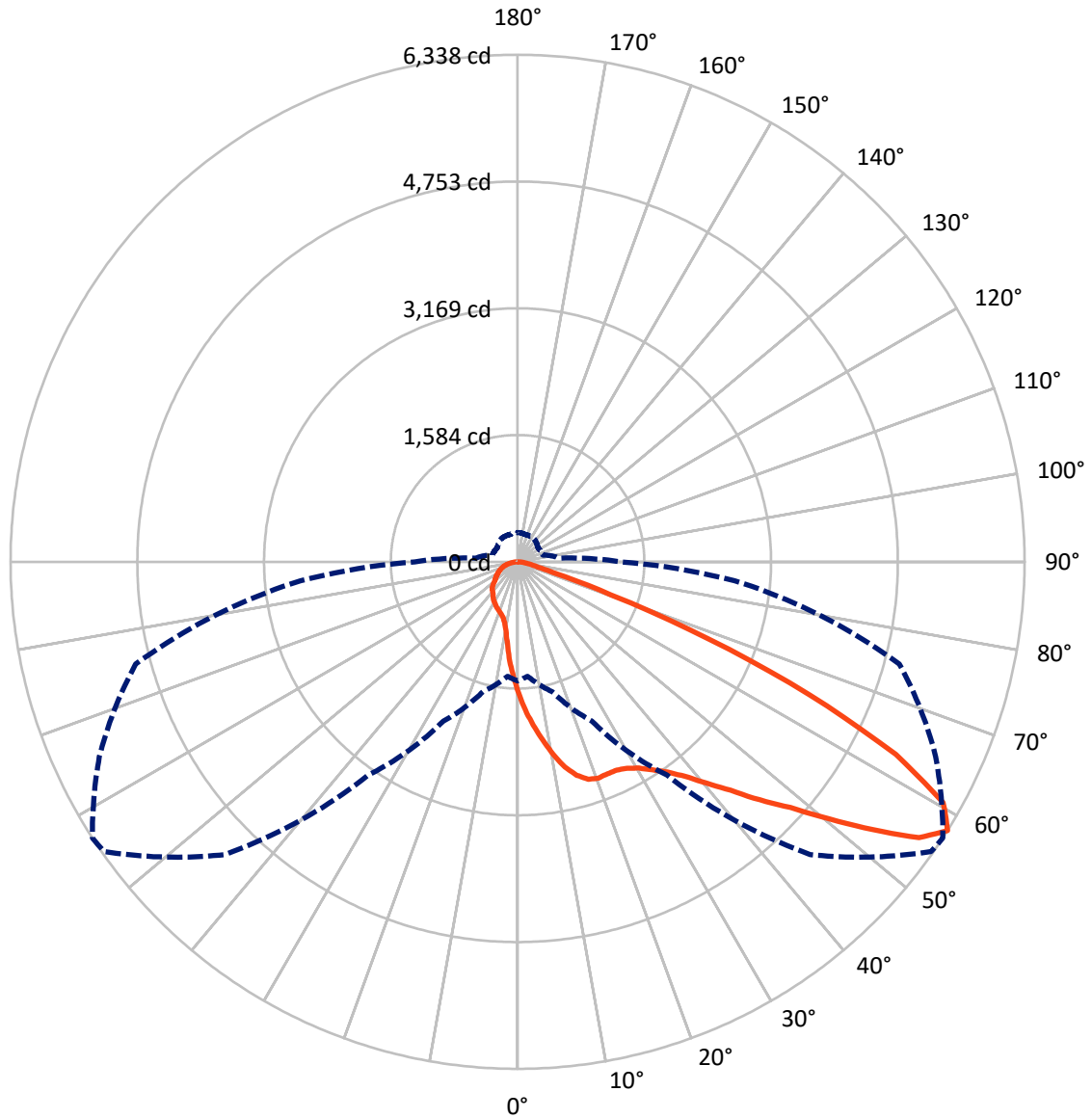
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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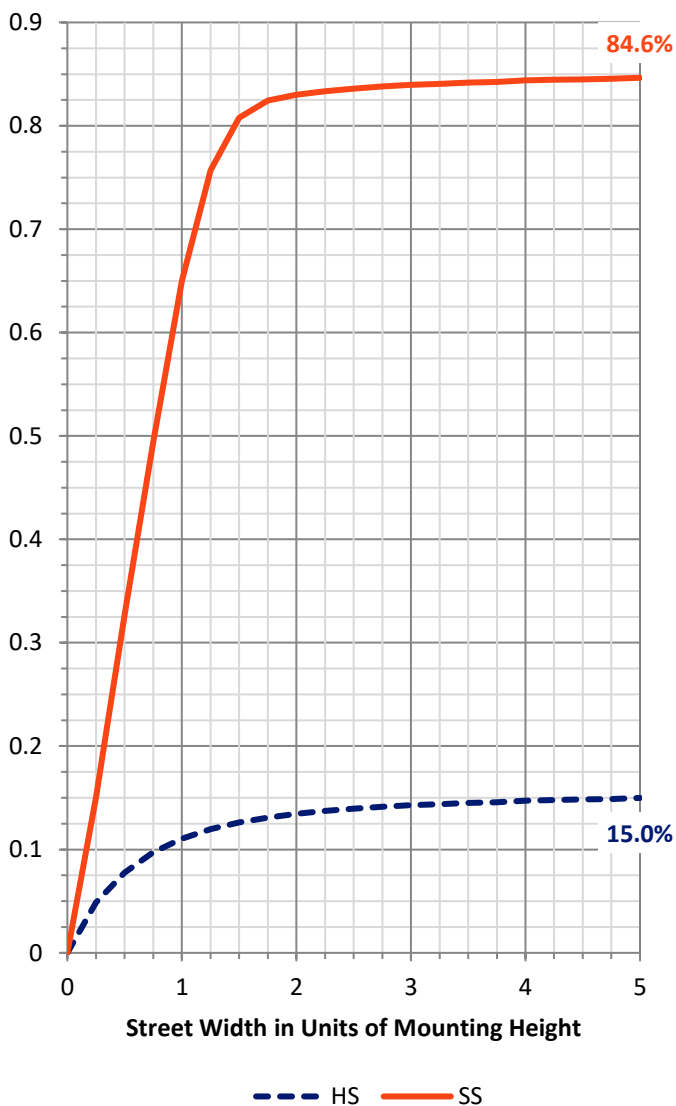
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1187.6	0.0	1187.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	6621.9	0.0	6621.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	7809.5	0.0	7809.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	2.0
10°-20°	464.7	6.0
20°-30°	771.7	9.9
30°-40°	1162.3	14.9
40°-50°	1745.2	22.3
50°-60°	1956.1	25.0
60°-70°	1144.8	14.7
70°-80°	338.6	4.3
80°-90°	68.4	0.9
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°	7809.5	100.0
0°-180°	7809.5	100.0

Coefficient of Utilization

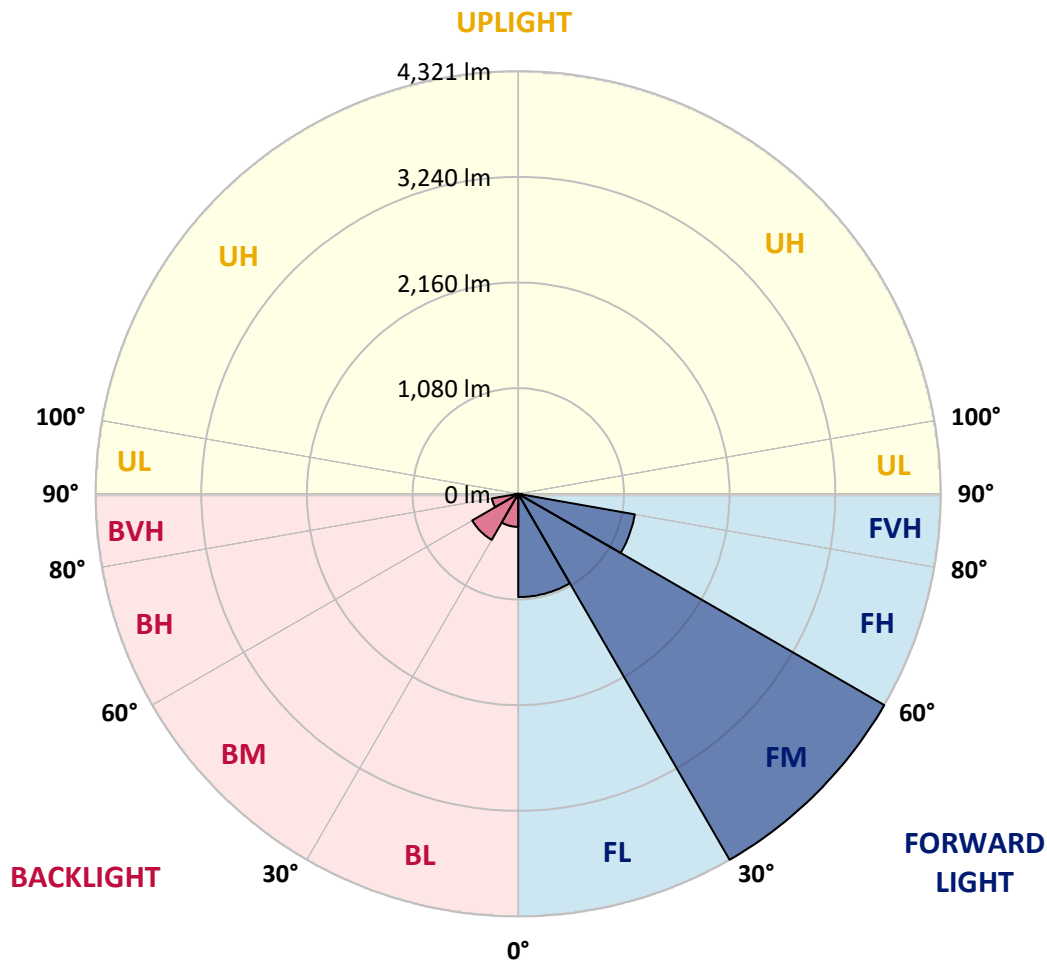


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1055.7	13.5			
FM (30°-60°)	4320.6	55.3			
FH (60°-80°)	1210.2	15.5			G1/1800
FVH (80°-90°)	35.5	0.5			G1/100
BL (0°-30°)	338.4	4.3	B1/500		
BM (30°-60°)	543.0	7.0	B1/1000		
BH (60°-80°)	273.3	3.5	B1/500		G1/500
BVH (80°-90°)	32.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7
2.5°	2038.7	2016.5	1998.9	1983.5	1963.5	1909.2	1854.8	1854.0	1810.8	1744.1	1675.8
5°	2370.9	2340.9	2344.8	2296.9	2249.0	2170.4	2055.3	2049.3	1957.4	1832.6	1705.6
7.5°	2587.2	2587.6	2575.6	2548.2	2496.5	2407.2	2276.8	2247.3	2119.5	1930.1	1739.9
10°	2576.1	2587.6	2607.7	2631.2	2647.0	2603.0	2484.1	2448.2	2281.9	2048.1	1777.9
12.5°	2428.1	2446.0	2474.7	2533.7	2629.1	2701.7	2661.1	2632.0	2470.0	2165.7	1819.8
15°	2335.8	2346.5	2362.3	2402.1	2504.7	2678.7	2783.8	2768.4	2647.4	2298.6	1866.9
17.5°	2307.5	2318.2	2323.3	2347.7	2420.8	2599.1	2832.1	2859.5	2804.7	2420.8	1914.3
20°	2335.8	2340.9	2340.9	2355.5	2412.7	2552.5	2830.0	2885.1	2933.8	2567.5	1958.8
22.5°	2409.7	2411.9	2408.9	2414.0	2456.7	2565.4	2809.9	2878.2	3038.1	2691.9	1993.3
25°	2529.9	2533.3	2513.6	2501.6	2532.8	2621.7	2821.0	2883.8	3119.8	2810.7	2016.5
27.5°	2666.2	2670.5	2646.5	2618.8	2633.3	2691.5	2864.6	2921.0	3180.9	2927.9	2031.0
30°	2833.4	2835.1	2794.9	2761.6	2752.2	2795.3	2939.0	2991.5	3257.0	3065.9	2052.8
32.5°	3004.4	3017.2	2965.5	2918.4	2902.6	2915.9	3048.8	3099.7	3347.7	3214.3	2087.9
35°	3236.9	3239.0	3177.0	3119.8	3067.6	3084.7	3189.5	3226.2	3472.9	3385.7	2137.4
37.5°	3527.2	3546.8	3461.4	3354.5	3290.3	3265.6	3359.6	3399.8	3648.6	3596.0	2212.3
40°	3849.5	3856.7	3783.7	3717.0	3599.9	3528.1	3593.0	3636.7	3865.3	3847.0	2299.0
42.5°	4052.1	4067.9	4073.6	4066.7	3978.6	3858.1	3882.9	3903.4	4121.8	4082.5	2387.9
45°	4120.6	4144.0	4223.6	4392.0	4401.4	4282.5	4224.8	4244.5	4401.4	4320.2	2473.0
47.5°	4007.3	4047.5	4194.1	4539.5	4798.1	4807.1	4633.1	4589.9	4656.2	4517.3	2534.6
50°	3714.4	3722.9	3947.4	4447.5	4984.1	5308.6	5128.6	5048.2	4898.2	4663.0	2576.9
52.5°	3261.3	3271.2	3459.2	4020.5	4869.5	5659.1	5708.2	5564.6	5144.0	4776.3	2604.7
55°	2420.8	2477.7	2684.6	3227.1	4326.6	5626.1	6169.1	6087.4	5441.0	4866.1	2648.3
57.5°	1488.5	1436.3	1681.7	2195.6	3254.0	5173.8	6311.4	6337.9	5768.1	4941.3	2721.4
60°	684.8	695.1	796.4	1132.4	1983.5	4047.5	5944.6	6112.2	5948.9	4938.8	2739.7
62.5°	472.0	462.6	436.9	497.2	904.6	2559.8	5021.3	5305.1	5586.4	4785.3	2666.6
65°	421.9	412.5	363.0	346.2	415.5	1115.8	3650.3	4008.5	4703.6	4398.0	2484.6
67.5°	394.2	381.3	330.0	297.5	296.7	444.1	2152.4	2583.7	3488.7	3718.3	2152.8
70°	365.1	354.8	303.9	268.0	252.6	279.1	946.0	1238.5	2265.2	2679.5	1677.0
72.5°	336.0	324.0	278.3	239.9	219.8	209.1	362.5	471.5	1279.9	1606.5	1028.1
75°	293.7	287.7	248.8	217.1	195.4	168.9	230.0	262.5	612.2	737.8	516.0
77.5°	256.9	250.5	221.0	189.8	174.0	137.3	163.3	178.3	258.2	299.2	233.0
80°	188.1	194.5	186.4	167.6	155.2	107.7	109.8	122.3	153.5	169.7	142.4
82.5°	119.3	131.3	143.6	129.1	117.6	85.1	76.1	80.8	104.7	111.2	63.2
85°	50.0	50.9	83.3	78.6	67.1	50.5	45.8	48.3	56.0	58.5	29.5
87.5°	19.3	18.8	29.5	27.3	20.9	14.5	14.5	16.2	22.2	20.5	9.4
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°	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7
2.5°	1646.3	1615.9	1555.6	1480.8	1426.1	1364.5	1310.3	1271.3	1256.8	1250.0	1237.1
5°	1645.0	1585.1	1460.3	1329.5	1224.3	1116.6	1025.5	966.6	961.4	922.1	918.2
7.5°	1645.4	1553.9	1355.1	1162.8	1002.5	892.1	816.9	797.3	773.7	767.7	770.8
10°	1646.7	1514.1	1242.2	997.8	842.6	770.4	742.1	734.4	735.3	737.8	738.2
12.5°	1648.4	1475.7	1125.2	872.5	752.8	722.8	719.9	726.7	734.0	739.6	740.8
15°	1650.5	1431.6	1011.0	771.6	708.0	705.3	715.2	726.7	737.0	745.1	746.4
17.5°	1647.9	1380.3	915.3	709.6	683.1	695.5	711.7	726.3	735.7	743.4	744.3
20°	1642.0	1323.1	822.9	666.0	667.8	687.9	705.3	719.1	729.3	733.1	736.1
22.5°	1618.9	1254.7	742.5	632.3	649.3	677.2	698.1	706.2	694.7	686.5	688.7
25°	1579.6	1165.8	667.8	604.9	632.7	662.2	683.6	663.9	654.5	651.1	652.8
27.5°	1530.4	1068.3	611.3	576.3	611.3	645.5	639.5	636.1	631.8	626.3	627.6
30°	1477.4	973.0	563.4	554.1	588.2	607.9	610.5	616.0	611.3	602.7	606.2
32.5°	1428.3	883.2	527.1	535.2	572.0	569.0	588.2	594.7	572.8	544.2	545.5
35°	1386.3	799.8	499.7	516.8	544.2	545.5	564.7	542.4	519.0	505.3	506.1
37.5°	1354.7	734.9	481.8	501.0	508.7	525.0	514.7	503.2	500.1	490.7	491.1
40°	1335.9	678.0	470.2	488.6	487.4	498.5	465.5	477.1	481.4	478.4	478.8
42.5°	1317.1	637.8	458.3	471.5	471.1	449.3	442.0	451.9	463.0	464.2	463.4
45°	1302.1	606.6	445.9	445.5	454.0	419.8	417.6	423.6	439.4	447.2	446.7
47.5°	1285.5	580.5	427.1	415.1	417.6	401.4	398.0	400.6	419.8	432.2	435.6
50°	1264.5	554.5	403.5	387.3	376.6	384.3	385.2	385.6	404.9	418.9	421.9
52.5°	1247.8	534.8	376.6	364.7	351.8	368.9	375.3	376.2	387.7	399.3	401.4
55°	1257.6	523.7	350.1	341.5	330.0	353.1	365.5	367.2	369.8	378.4	379.6
57.5°	1287.2	526.2	328.7	317.6	309.1	334.3	355.2	356.5	354.8	365.1	366.8
60°	1296.1	525.0	312.9	291.2	286.0	314.2	340.3	342.9	342.5	357.3	360.4
62.5°	1258.6	508.7	297.1	268.9	265.5	293.7	319.3	329.6	331.7	353.1	356.9
65°	1170.0	475.3	276.2	245.4	245.4	271.9	299.2	313.4	319.3	348.0	352.2
67.5°	1053.4	436.1	254.8	225.3	224.5	251.0	277.9	292.4	301.8	340.7	343.3
70°	874.2	383.0	228.2	203.5	203.5	227.4	251.8	269.3	283.0	327.1	327.1
72.5°	598.9	318.5	196.2	178.7	179.1	201.3	226.1	245.8	262.1	299.6	300.5
75°	378.8	248.8	161.1	152.2	153.9	174.8	200.5	221.0	253.5	296.3	297.5
77.5°	201.3	174.8	128.3	126.2	128.3	147.5	176.1	204.4	254.3	256.9	252.6
80°	130.4	124.0	101.3	97.1	97.9	118.8	156.8	194.1	204.4	206.9	197.5
82.5°	71.0	78.6	71.8	67.5	67.5	92.8	133.8	154.3	146.6	121.9	116.3
85°	30.4	36.8	37.2	32.5	31.2	57.3	89.7	84.2	78.2	74.8	73.9
87.5°	8.6	11.9	11.9	9.0	6.8	15.8	17.9	5.1	0.0	0.4	0.8
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)