

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: P648284

Luminaire Tested: **GALN-SA2B-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9131.4 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

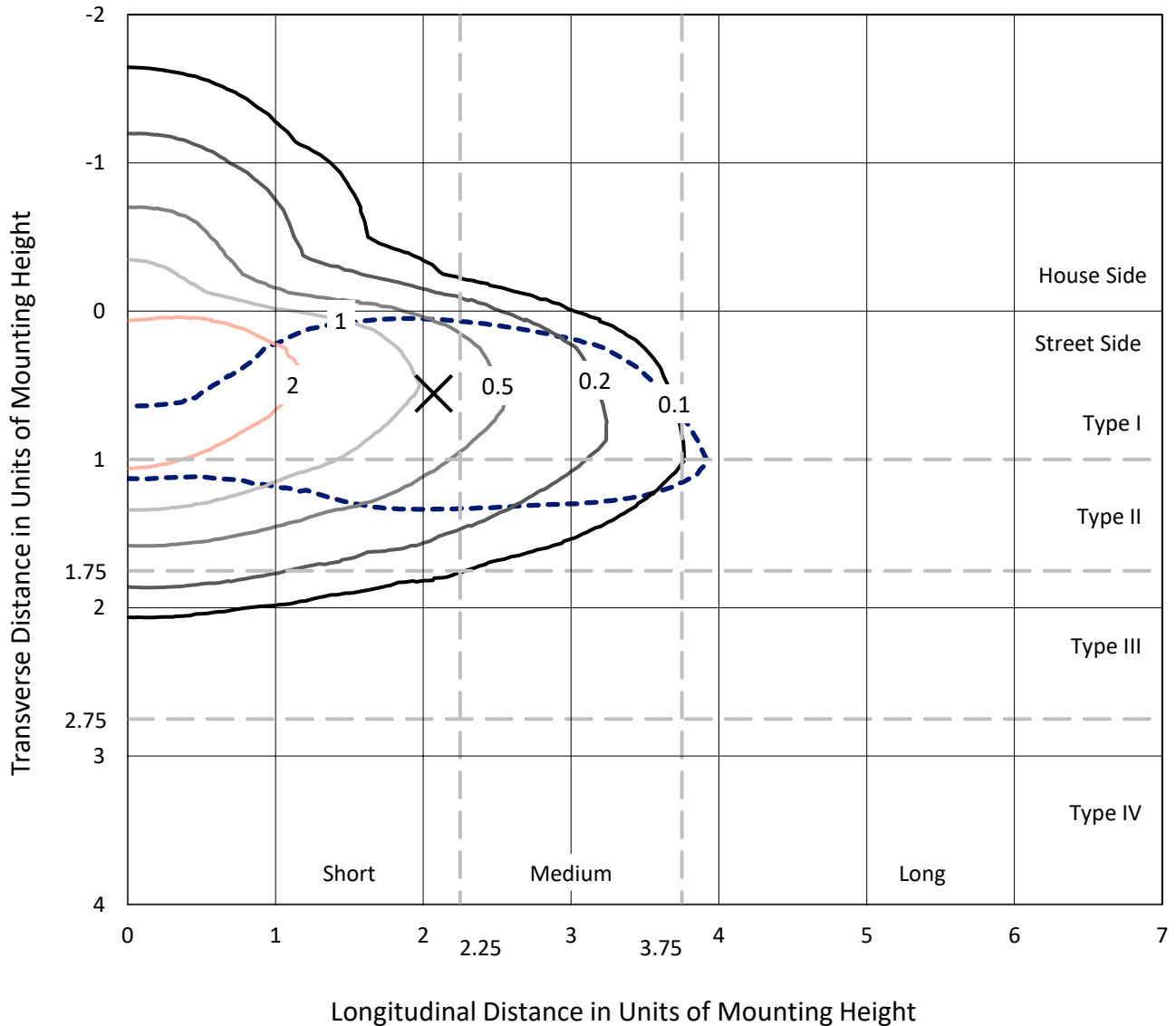
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

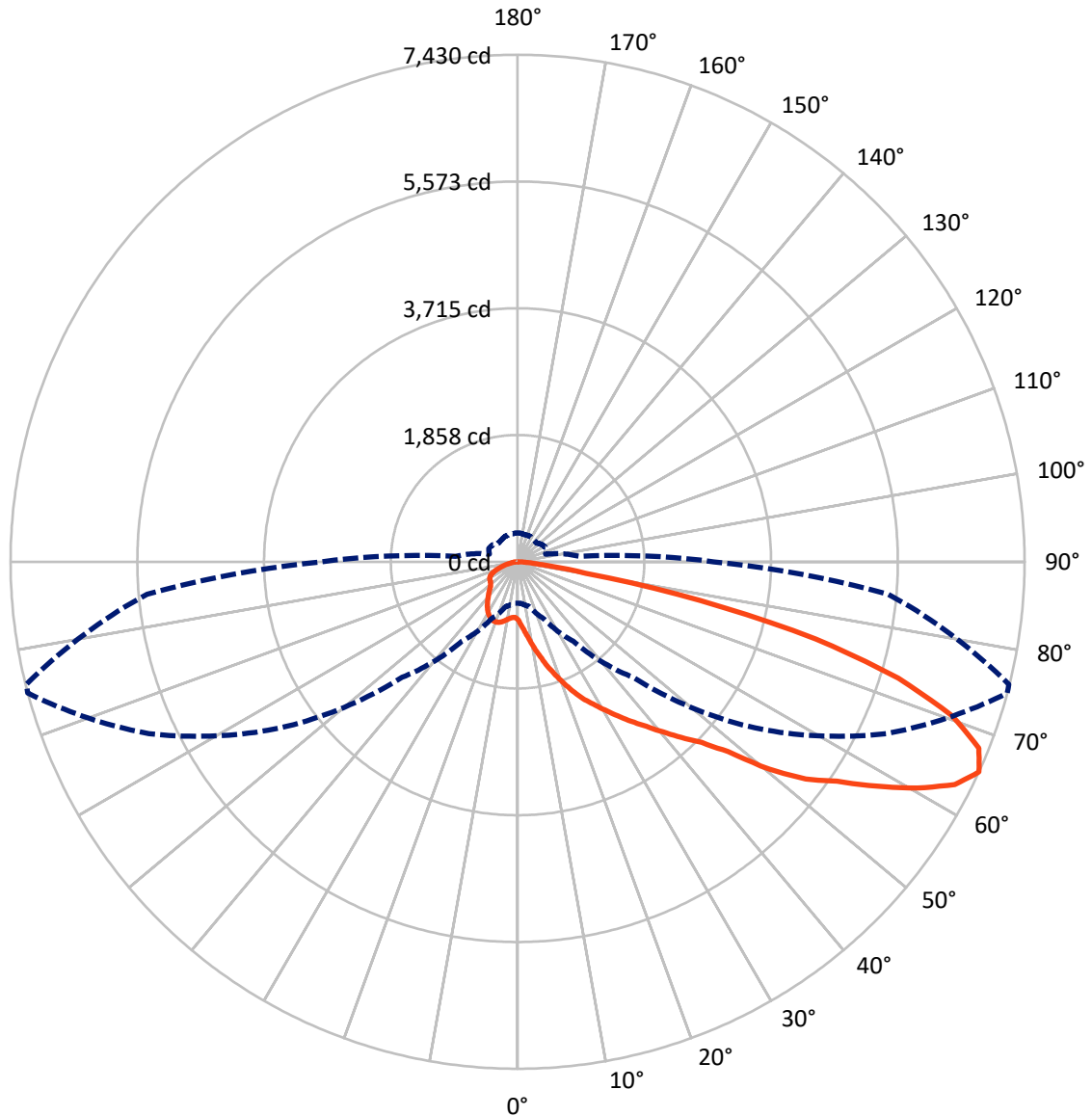
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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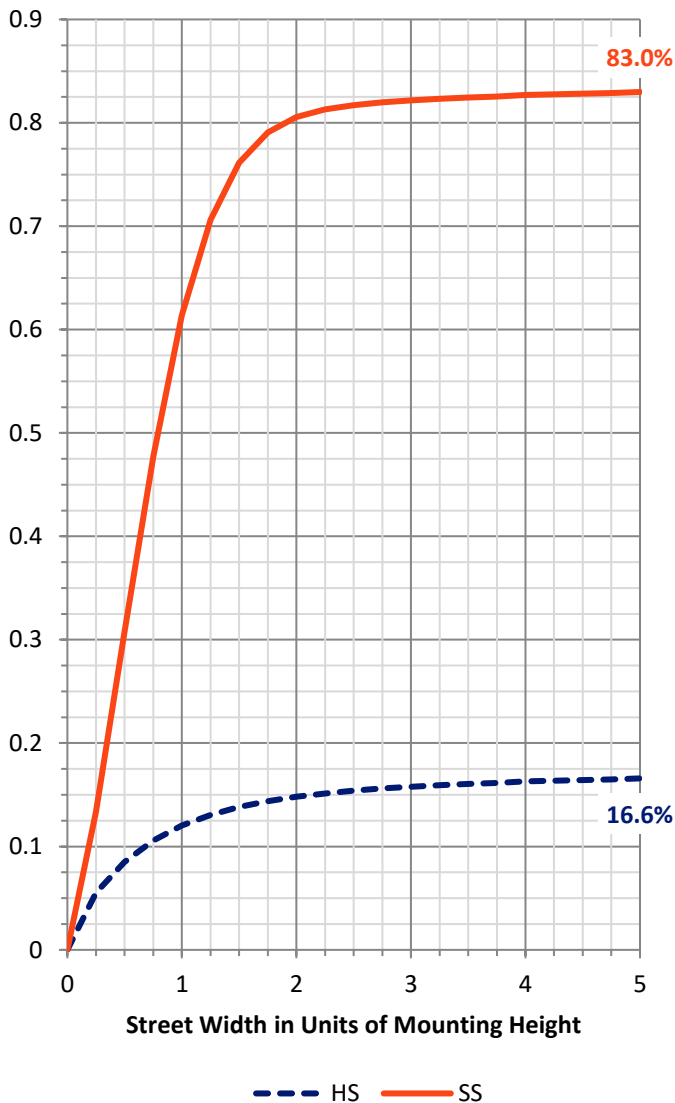
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1535.1	0.0	1535.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	7596.3	0.0	7596.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	9131.4	0.0	9131.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	1.1
10°-20°	403.7	4.4
20°-30°	779.9	8.5
30°-40°	1266.8	13.9
40°-50°	1742.6	19.1
50°-60°	2057.4	22.5
60°-70°	1802.7	19.7
70°-80°	860.6	9.4
80°-90°	114.5	1.3
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°	9131.4	100.0
0°-180°	9131.4	100.0

Coefficient of Utilization

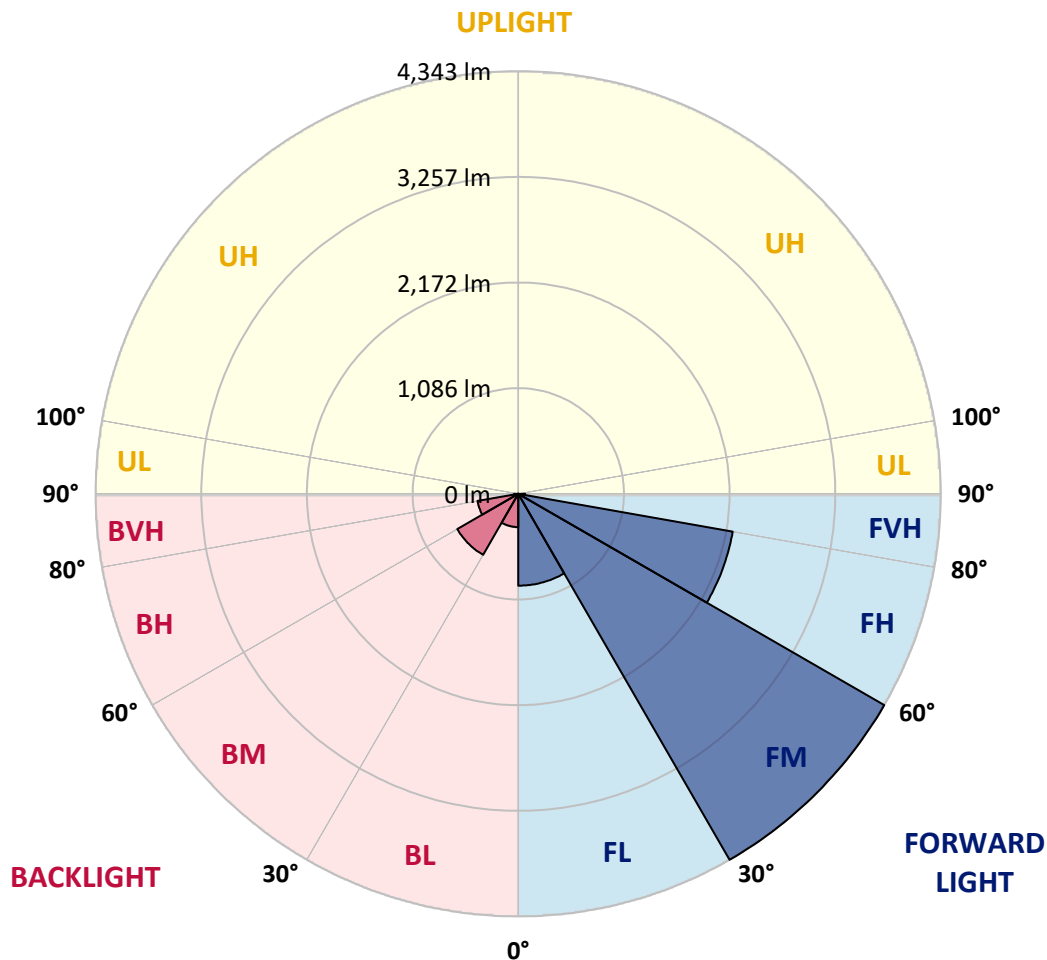


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.0	10.3			
FM (30°-60°)	4343.1	47.6			
FH (60°-80°)	2237.6	24.5			G2/5000
FVH (80°-90°)	71.6	0.8			G1/100
BL (0°-30°)	342.7	3.8	B1/500		
BM (30°-60°)	723.8	7.9	B1/1000		
BH (60°-80°)	425.7	4.7	B1/500		G1/500
BVH (80°-90°)	42.9	0.5			G1/100
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°	75°	76°	85°
0°	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4
2.5°	1127.3	1119.8	1111.9	1090.1	1066.8	1040.6	1002.9	966.8	918.8	917.3	881.6
5°	1439.8	1434.8	1399.7	1379.3	1325.4	1253.6	1192.7	1098.0	1010.4	1000.0	930.6
7.5°	1727.1	1707.7	1694.3	1657.7	1604.2	1512.1	1394.2	1266.4	1119.8	1106.0	991.0
10°	1943.5	1941.5	1934.6	1902.8	1862.8	1771.1	1640.4	1457.1	1258.5	1231.3	1064.3
12.5°	2105.4	2106.9	2106.0	2105.4	2076.8	1998.9	1857.3	1664.1	1398.7	1379.3	1149.1
15°	2211.9	2226.8	2232.7	2257.5	2260.0	2208.0	2086.1	1864.2	1556.7	1527.9	1240.2
17.5°	2282.3	2289.6	2317.4	2359.5	2393.7	2384.3	2275.8	2049.5	1718.1	1670.1	1334.8
20°	2349.6	2362.5	2383.8	2441.2	2501.7	2529.4	2453.1	2239.1	1878.1	1847.4	1439.3
22.5°	2489.8	2508.1	2515.5	2544.8	2596.3	2645.3	2610.6	2421.0	2053.4	2011.8	1550.3
25°	2727.0	2746.4	2725.5	2718.6	2735.4	2759.7	2752.2	2592.3	2218.9	2159.4	1655.3
27.5°	3036.1	3038.6	2998.0	2959.3	2917.7	2905.3	2882.5	2744.3	2362.5	2313.0	1760.7
30°	3367.9	3356.0	3288.7	3218.8	3148.5	3079.1	3013.8	2891.0	2522.4	2465.5	1864.2
32.5°	3676.0	3669.5	3594.8	3486.3	3367.4	3302.1	3169.8	3039.1	2693.8	2638.9	1970.7
35°	3906.8	3916.2	3834.0	3715.6	3585.8	3527.9	3360.9	3194.6	2871.2	2811.2	2086.6
37.5°	4070.7	4065.7	3993.0	3890.4	3776.5	3726.0	3584.3	3364.5	3061.8	3004.4	2213.4
40°	4129.2	4126.2	4072.2	3997.4	3925.1	3907.2	3818.1	3547.7	3280.2	3212.9	2366.0
42.5°	4092.0	4098.5	4062.8	4042.5	4029.1	4042.0	4050.4	3787.9	3518.5	3456.6	2531.4
45°	3978.1	3974.7	3969.7	4002.9	4078.2	4162.8	4280.2	4014.8	3777.5	3728.0	2753.3
47.5°	3774.5	3799.3	3811.7	3903.3	4067.8	4268.4	4544.7	4318.9	4153.4	4110.4	3091.5
50°	3489.8	3509.6	3582.9	3745.8	3991.0	4308.0	4803.2	4816.2	4780.4	4699.7	3459.1
52.5°	3045.0	3075.7	3226.7	3525.4	3833.5	4291.6	4959.8	5242.6	5289.6	5229.2	3821.1
55°	2547.3	2590.3	2749.8	3141.6	3616.5	4202.4	5067.7	5489.7	5677.4	5621.5	4169.8
57.5°	2059.8	2105.4	2269.4	2648.7	3238.2	4005.4	5138.5	5765.1	6205.4	6132.6	4603.6
60°	1543.8	1591.4	1732.0	2122.8	2699.3	3620.0	5090.5	6003.8	6732.9	6701.6	5038.0
62.5°	996.0	1048.5	1170.8	1494.3	2074.7	3093.6	4833.5	6135.5	7189.5	7151.8	5355.0
65°	606.7	612.7	680.0	927.7	1420.0	2395.2	4245.6	5960.7	7430.2	7418.8	5451.6
67.5°	392.3	401.7	432.4	555.7	851.4	1663.6	3394.7	5383.7	7289.6	7285.6	5252.0
70°	331.4	334.3	348.2	374.9	494.8	1008.9	2383.8	4464.0	6755.2	6755.2	4772.1
72.5°	296.2	300.1	305.1	313.5	353.1	571.6	1422.5	3474.9	5832.4	5871.1	4061.8
75°	269.0	267.9	270.9	272.4	301.1	373.4	735.5	2570.0	4512.0	4434.8	2941.5
77.5°	230.3	231.8	230.3	236.8	266.0	284.3	373.4	1724.6	2734.5	2634.4	1476.4
80°	189.2	191.7	194.2	198.1	227.3	216.0	224.3	786.0	1011.4	990.1	456.2
82.5°	142.1	145.6	149.6	158.9	178.8	142.7	141.6	335.8	365.0	334.3	167.9
85°	57.5	67.9	102.5	112.0	112.4	78.2	87.1	140.2	149.1	145.6	65.9
87.5°	13.4	15.8	33.2	50.0	46.0	29.2	32.2	45.6	52.0	48.1	22.3
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°	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4	848.4
2.5°	865.3	847.9	818.2	795.4	779.1	764.7	755.8	750.3	748.4	747.8	748.4
5°	894.5	863.8	816.7	787.0	770.6	761.2	755.8	755.3	755.8	756.3	754.8
7.5°	934.6	890.5	829.1	801.4	789.0	782.1	779.6	778.6	779.1	778.6	778.6
10°	988.1	927.7	853.4	824.7	814.2	806.3	802.3	799.9	797.9	795.9	794.9
12.5°	1047.0	968.8	879.6	851.9	837.0	824.7	815.7	809.3	804.8	800.4	799.4
15°	1112.9	1012.3	908.8	870.2	848.9	830.6	815.3	804.8	796.9	790.4	790.0
17.5°	1175.8	1053.4	928.6	878.6	847.4	821.7	801.4	787.0	777.1	768.7	767.7
20°	1243.2	1092.6	937.6	873.2	832.6	801.4	774.6	757.3	745.9	736.5	735.0
22.5°	1311.0	1125.8	936.5	855.8	806.8	770.2	742.0	723.6	710.3	700.8	697.3
25°	1375.9	1152.5	924.2	828.1	771.2	733.0	704.3	687.5	675.6	664.1	664.1
27.5°	1434.3	1168.4	900.9	794.4	734.5	694.4	671.6	656.2	645.3	637.9	633.4
30°	1491.8	1175.8	869.2	751.8	695.9	661.7	643.4	634.5	624.5	616.1	615.1
32.5°	1543.3	1174.3	829.6	710.3	659.2	634.9	627.5	620.6	610.2	598.3	595.3
35°	1593.3	1164.4	782.5	664.7	628.5	619.1	621.1	611.2	592.3	577.5	575.0
37.5°	1647.8	1146.5	731.0	627.5	602.8	611.7	616.6	594.8	564.2	540.8	535.4
40°	1710.7	1126.3	677.5	590.4	582.5	604.7	604.7	564.6	522.5	508.2	504.2
42.5°	1784.5	1109.4	633.0	559.1	565.6	587.9	585.4	524.5	507.1	499.7	497.8
45°	1901.4	1103.5	586.9	532.0	551.8	568.1	547.8	510.7	500.7	494.8	492.8
47.5°	2086.1	1110.5	546.3	511.6	535.9	548.3	505.7	501.2	494.3	485.9	484.9
50°	2257.5	1104.0	517.6	500.3	522.0	524.5	488.4	489.8	485.9	476.5	474.5
52.5°	2397.6	1083.7	499.2	494.3	510.1	482.9	472.0	477.5	476.0	464.1	462.1
55°	2551.7	1071.3	490.3	494.3	502.2	446.8	456.6	464.6	462.6	454.1	453.7
57.5°	2738.4	1073.8	483.9	495.8	494.3	428.5	441.3	450.7	450.2	447.7	447.7
60°	2929.6	1074.7	473.9	495.2	484.9	414.1	425.5	438.8	439.8	441.3	441.3
62.5°	2993.0	1031.7	454.7	486.4	464.1	400.2	410.6	428.9	427.9	431.9	432.4
65°	2874.6	912.3	426.0	466.0	437.3	390.2	399.2	416.0	410.6	421.0	423.0
67.5°	2616.6	754.8	381.4	429.4	407.6	379.9	391.7	398.2	388.3	408.6	409.1
70°	2261.5	589.4	324.9	377.4	374.0	368.9	385.9	375.9	362.1	386.8	381.9
72.5°	1891.0	450.2	259.6	308.6	328.9	352.7	375.4	347.2	327.8	335.3	326.4
75°	1420.4	332.9	208.5	241.7	273.9	329.3	366.0	312.5	282.8	275.9	273.9
77.5°	724.1	217.4	156.1	180.8	205.5	297.7	353.1	271.9	234.3	223.4	218.5
80°	258.5	135.2	109.9	124.8	138.7	256.0	308.6	224.9	181.7	179.8	181.7
82.5°	119.9	87.1	73.8	81.7	82.2	170.9	235.3	167.9	138.2	210.0	177.3
85°	51.5	43.6	41.6	40.6	37.7	76.3	132.2	90.1	140.6	62.9	57.9
87.5°	15.3	17.3	15.3	11.4	8.5	8.5	13.4	4.9	3.4	2.5	2.5
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)