

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: P651212

Luminaire Tested: **GALN-SA1D-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P651212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6587.6 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

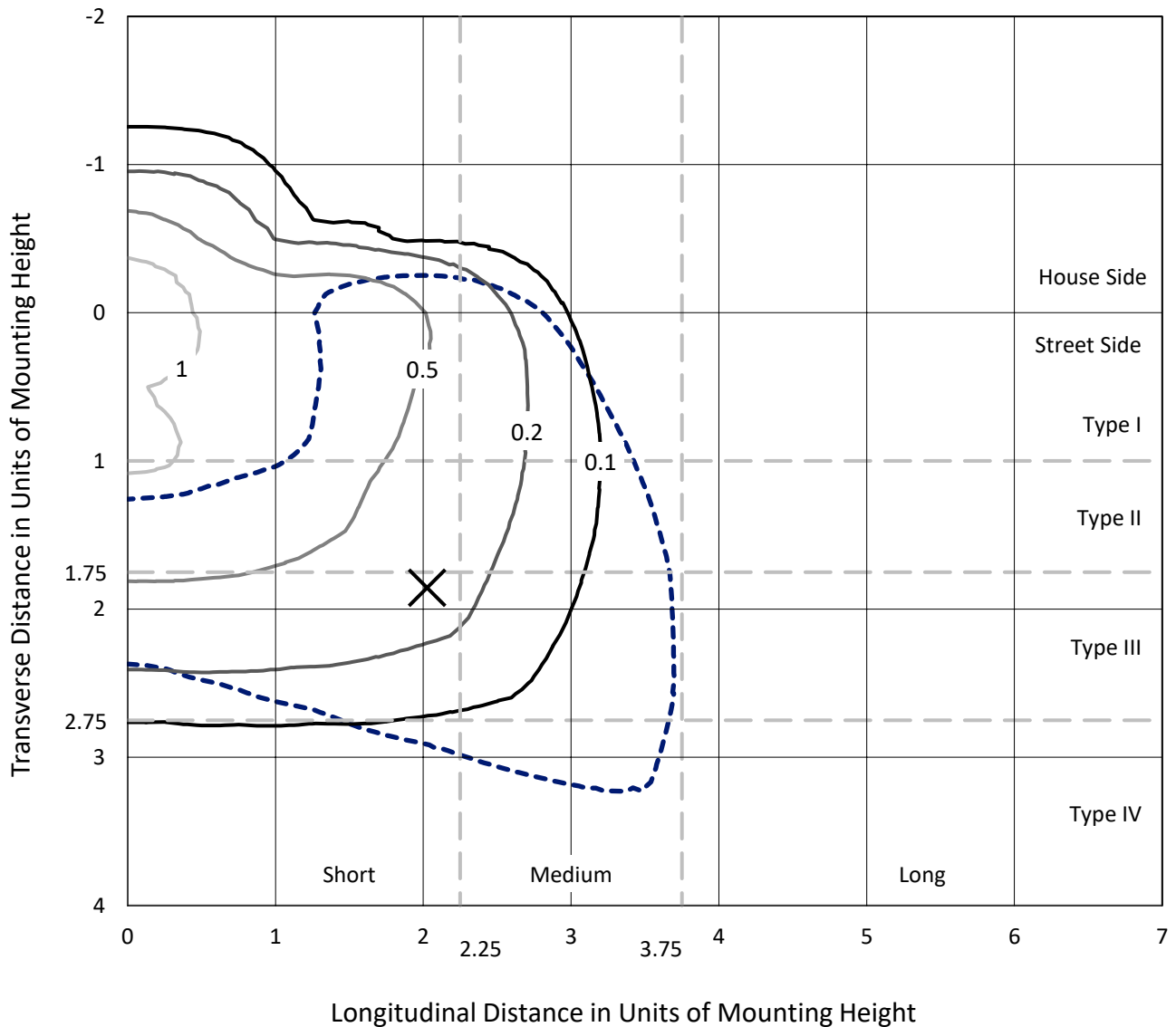
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

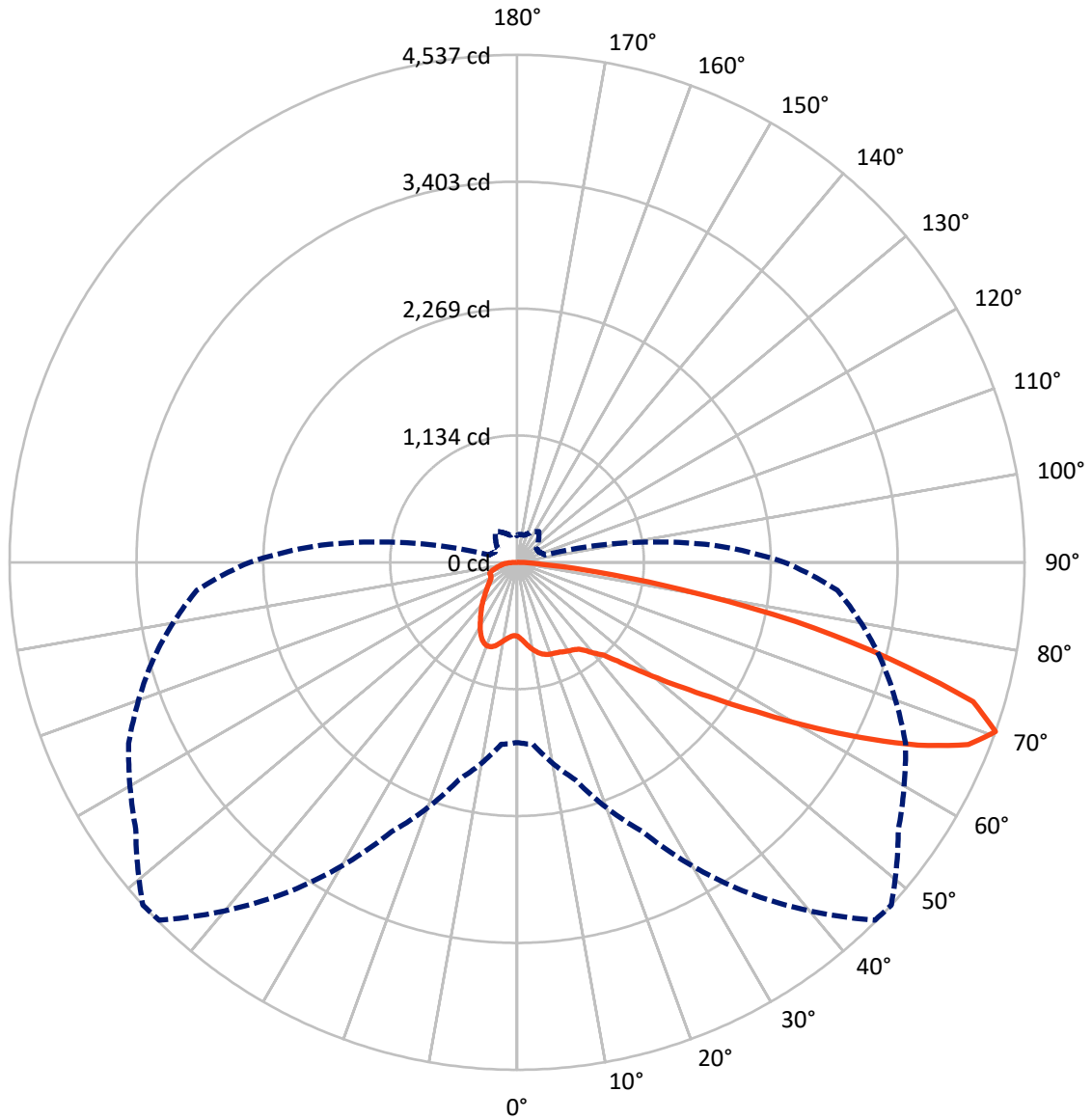
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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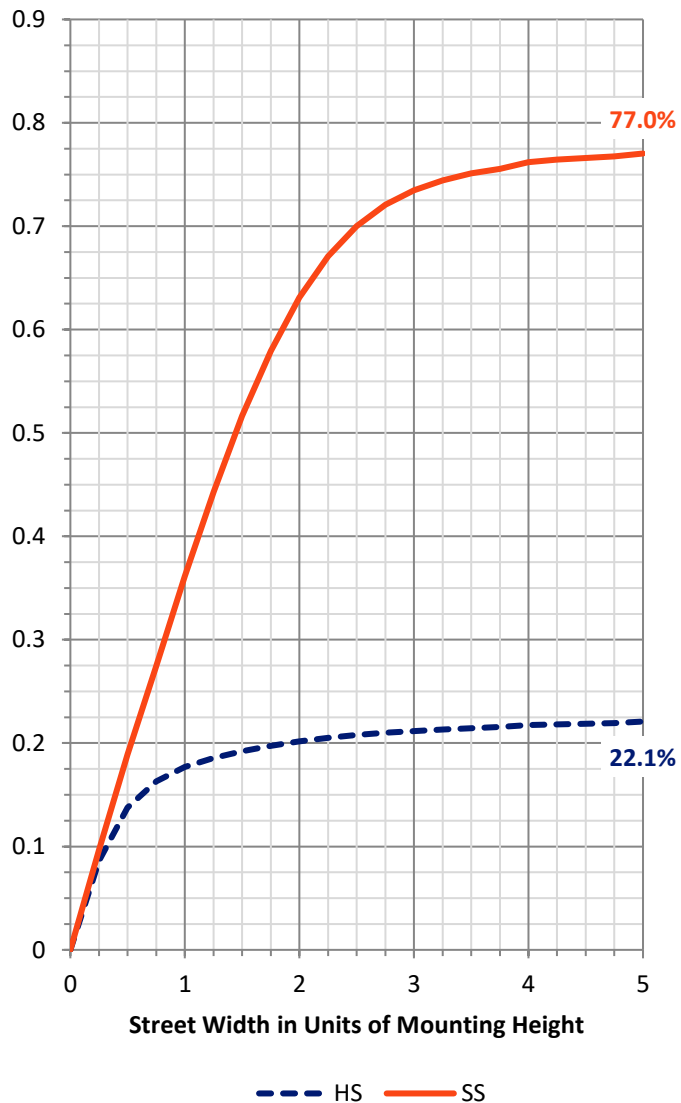
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1491.6	0.0	1491.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5096.0	0.0	5096.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	6587.6	0.0	6587.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	1.0
10°-20°	227.9	3.5
20°-30°	379.0	5.8
30°-40°	537.1	8.2
40°-50°	792.9	12.0
50°-60°	1373.4	20.8
60°-70°	1940.0	29.4
70°-80°	1115.2	16.9
80°-90°	153.9	2.3
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°	6587.6	100.0
0°-180°	6587.6	100.0

Coefficient of Utilization



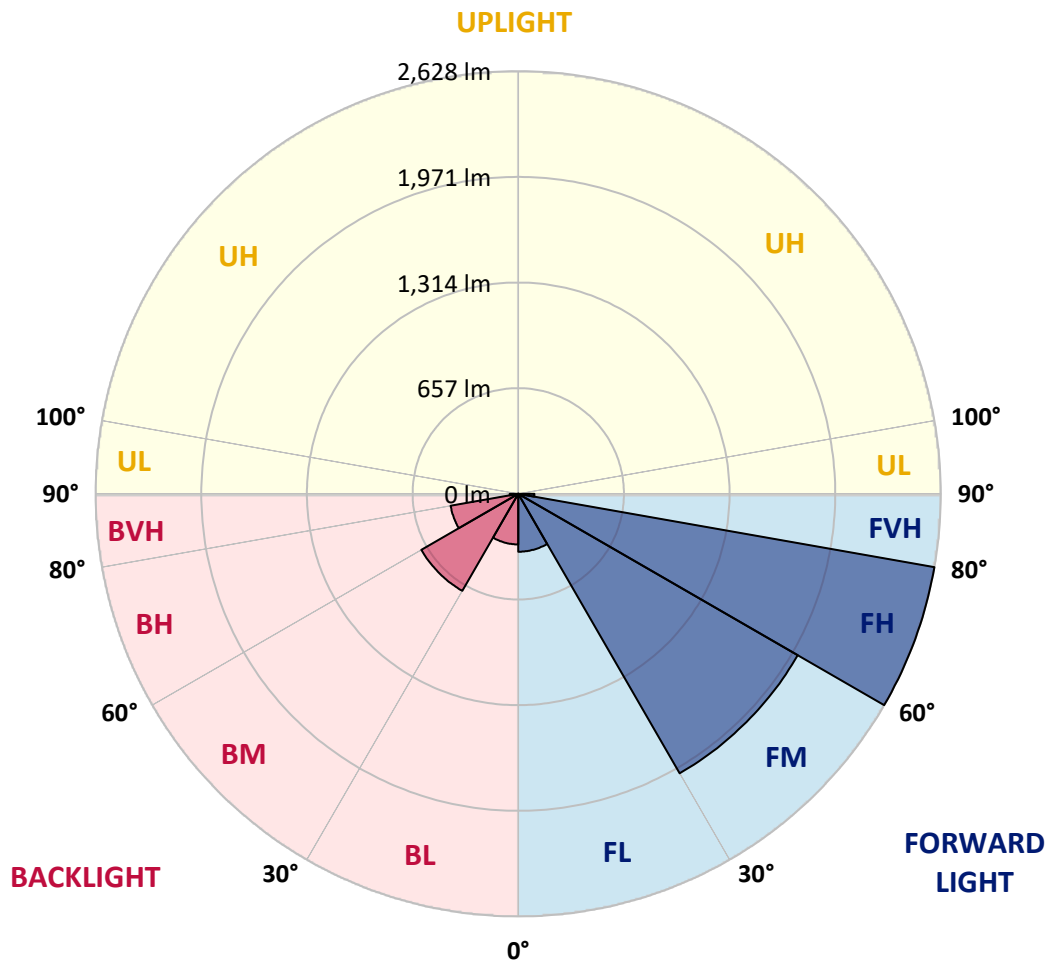
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.2	5.5			
FM (30°-60°)	2007.1	30.5			
FH (60°-80°)	2628.2	39.9			G2/5000
FVH (80°-90°)	100.5	1.5			G2/225
BL (0°-30°)	314.8	4.8	B1/500		
BM (30°-60°)	696.4	10.6	B1/1000		
BH (60°-80°)	427.0	6.5	B1/500		G1/500
BVH (80°-90°)	53.4	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	661.3	661.3	661.3	661.3	661.3	661.3	661.3	661.3	661.3	661.3	661.3
2.5°	704.0	701.5	701.1	695.8	693.1	687.8	685.7	680.7	674.7	668.7	663.0
5°	759.3	759.3	756.8	749.4	737.8	725.8	720.6	711.0	694.1	680.4	668.7
7.5°	816.0	816.8	811.8	800.9	784.3	765.0	760.0	745.9	721.9	701.8	684.6
10°	865.1	865.1	858.3	843.5	822.8	801.6	796.7	780.8	754.0	729.0	706.4
12.5°	902.4	902.4	893.6	874.2	851.7	832.6	827.0	811.8	786.8	758.9	730.4
15°	926.8	925.0	915.1	893.2	871.4	854.9	850.9	838.3	815.3	787.2	755.0
17.5°	927.8	927.1	917.6	899.3	880.2	868.9	866.5	858.0	840.1	813.2	779.4
20°	907.4	908.8	902.4	889.4	880.2	875.3	874.2	871.4	858.7	833.7	799.9
22.5°	885.5	888.0	882.0	874.9	874.2	879.2	879.9	880.6	872.5	848.1	817.1
25°	880.2	882.0	876.0	869.7	873.5	886.6	889.4	892.2	885.8	865.4	837.6
27.5°	907.0	905.6	894.0	880.2	882.7	900.3	904.2	907.4	904.2	886.6	863.0
30°	982.8	978.3	955.0	914.8	902.1	914.4	918.3	927.1	927.1	914.1	890.5
32.5°	1109.7	1100.9	1058.2	979.3	935.2	927.8	931.7	946.1	953.5	943.3	917.6
35°	1263.8	1254.6	1193.6	1087.5	995.8	954.6	953.5	969.8	989.5	966.6	933.1
37.5°	1418.5	1409.0	1335.7	1216.5	1084.3	1011.0	1004.7	1010.3	1018.8	976.8	954.6
40°	1573.3	1562.0	1497.8	1360.7	1192.5	1085.7	1069.2	1043.8	1040.2	1010.3	996.2
42.5°	1726.6	1716.4	1683.9	1522.5	1322.3	1158.7	1133.3	1089.6	1103.0	1085.1	1072.7
45°	1881.3	1882.1	1847.5	1704.0	1478.8	1293.4	1259.1	1190.8	1222.5	1215.8	1222.9
47.5°	2018.5	2016.7	2004.4	1880.3	1673.0	1466.8	1422.7	1343.4	1397.7	1422.4	1476.3
50°	2151.4	2150.4	2151.0	2080.1	1898.6	1673.0	1624.4	1541.2	1663.5	1749.2	1845.7
52.5°	2341.8	2347.7	2305.1	2286.4	2172.9	1916.6	1863.0	1777.0	1977.6	2112.6	2301.2
55°	2532.8	2527.9	2494.4	2513.7	2459.8	2204.9	2148.9	2080.5	2327.3	2475.0	2758.4
57.5°	2645.3	2647.0	2681.2	2776.1	2814.1	2564.5	2513.7	2460.9	2720.3	2825.0	3165.2
60°	2746.5	2754.5	2852.8	3032.0	3135.2	3006.2	2961.1	2909.6	3080.9	3122.5	3518.4
62.5°	2778.2	2803.1	2974.9	3242.7	3448.3	3504.7	3448.6	3335.1	3424.3	3408.1	3757.8
65°	2619.9	2654.0	2961.8	3321.7	3727.8	3977.8	3942.1	3731.3	3716.9	3619.2	3796.9
67.5°	2203.2	2237.4	2632.6	3156.0	3843.5	4387.3	4351.8	4020.4	3894.5	3639.0	3500.8
70°	1612.0	1633.6	2011.4	2657.2	3611.1	4524.8	4537.2	4161.4	3831.1	3370.7	2874.4
72.5°	928.9	976.5	1241.2	1869.4	2950.1	4177.2	4262.9	3868.1	3429.9	2812.0	2009.7
75°	399.4	400.5	573.9	1031.1	1998.0	3357.7	3440.5	3206.5	2693.6	1944.5	1073.0
77.5°	190.0	193.5	252.4	460.4	1099.9	2319.9	2543.4	2265.2	1722.7	934.2	405.4
80°	123.4	125.8	154.4	228.4	539.3	1345.2	1501.0	1306.7	760.0	333.8	174.8
82.5°	74.8	75.4	103.3	139.6	296.8	609.1	718.0	567.2	324.3	199.9	102.9
85°	45.5	45.8	62.7	86.4	180.1	210.4	216.1	214.3	190.3	130.8	55.0
87.5°	21.9	22.5	32.5	40.9	70.9	65.2	61.7	71.6	89.9	70.5	23.6
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°	661.3	661.3	661.3	661.3	661.3	661.3	661.3	661.3	661.3	661.3	661.3
2.5°	660.6	659.5	657.1	656.1	655.3	655.6	655.3	655.3	655.6	655.6	655.6
5°	663.8	662.0	658.2	658.2	660.3	665.1	669.8	673.3	677.2	676.8	676.8
7.5°	677.5	674.3	669.8	671.2	676.5	684.2	692.3	700.0	707.9	708.5	708.2
10°	697.6	694.4	689.5	691.3	699.7	711.4	721.6	732.8	741.3	743.8	743.1
12.5°	720.6	714.2	710.0	714.9	728.3	743.8	753.7	762.1	768.1	771.6	770.3
15°	743.8	737.8	732.8	743.1	759.3	773.8	778.7	780.1	781.2	784.7	784.0
17.5°	766.3	758.2	756.5	769.9	785.4	791.7	788.9	782.9	778.3	781.2	780.8
20°	786.4	780.1	779.4	792.8	798.8	792.8	780.8	770.3	762.1	762.9	762.5
22.5°	805.5	800.5	801.2	806.9	797.4	776.9	757.2	742.8	733.9	735.7	736.7
25°	826.6	821.7	823.5	814.3	782.9	747.3	718.8	706.4	702.9	706.4	708.9
27.5°	854.1	850.9	849.9	814.7	757.2	703.6	671.2	666.6	669.8	677.5	681.4
30°	883.7	883.7	878.1	808.6	721.9	651.1	622.9	623.6	634.5	645.5	649.3
32.5°	912.3	918.3	900.6	792.5	676.5	600.0	578.4	579.2	588.7	602.1	605.6
35°	935.9	953.2	920.1	762.9	622.9	557.0	540.8	531.3	531.6	541.8	544.6
37.5°	968.3	1000.5	931.3	718.8	565.7	520.3	502.0	485.4	474.5	470.3	470.3
40°	1024.8	1072.0	934.2	653.5	511.8	485.4	459.4	439.6	418.4	399.4	395.9
42.5°	1120.3	1179.8	928.5	578.4	463.2	447.0	421.6	397.3	368.0	341.2	339.1
45°	1289.5	1320.1	913.3	500.6	419.8	410.0	385.3	358.9	327.8	303.9	302.1
47.5°	1560.6	1517.2	893.2	431.4	380.4	377.5	358.5	327.8	296.8	280.2	278.5
50°	1956.4	1827.4	890.5	381.4	348.6	350.0	334.5	306.3	279.2	265.4	263.3
52.5°	2433.0	2202.2	909.1	346.2	320.8	326.1	318.3	292.2	268.3	256.6	254.5
55°	2895.6	2539.1	920.4	318.7	294.7	304.6	305.6	283.8	261.9	250.3	248.9
57.5°	3271.0	2793.0	870.4	293.7	272.1	287.3	295.0	278.9	258.8	249.9	248.5
60°	3532.2	2912.8	728.0	271.5	255.6	273.6	291.2	279.2	266.5	267.5	268.3
62.5°	3615.4	2859.6	546.1	254.9	244.3	269.0	297.5	293.7	280.6	288.7	290.1
65°	3477.5	2639.6	395.9	241.8	234.4	272.1	316.6	304.2	275.7	281.7	281.7
67.5°	3016.1	2274.1	308.1	229.8	223.1	278.1	335.6	303.2	264.0	271.1	264.7
70°	2392.5	1759.0	256.6	216.5	211.2	269.3	337.3	292.2	250.3	251.7	239.7
72.5°	1587.7	1156.6	220.7	203.8	192.8	242.2	322.9	278.1	236.9	228.8	216.8
75°	778.0	576.7	192.5	187.9	168.9	210.8	303.2	264.7	222.4	209.7	203.0
77.5°	301.4	245.3	164.2	167.8	147.0	185.8	277.1	245.7	203.4	186.1	180.8
80°	146.3	139.3	134.6	139.9	120.9	158.3	253.1	229.2	185.8	166.8	158.9
82.5°	90.9	86.0	103.3	108.9	93.1	144.6	240.0	215.0	163.6	138.2	131.9
85°	46.2	49.4	69.1	74.3	66.6	114.9	197.7	161.5	118.1	98.0	98.7
87.5°	17.7	23.6	36.3	39.1	35.6	60.6	108.9	94.1	75.8	51.5	47.6
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)