

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: P522648

Luminaire Tested: **GALN-SA1D-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522648
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-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6225 lumens
Efficiency: N/A
Efficacy: 95.8 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

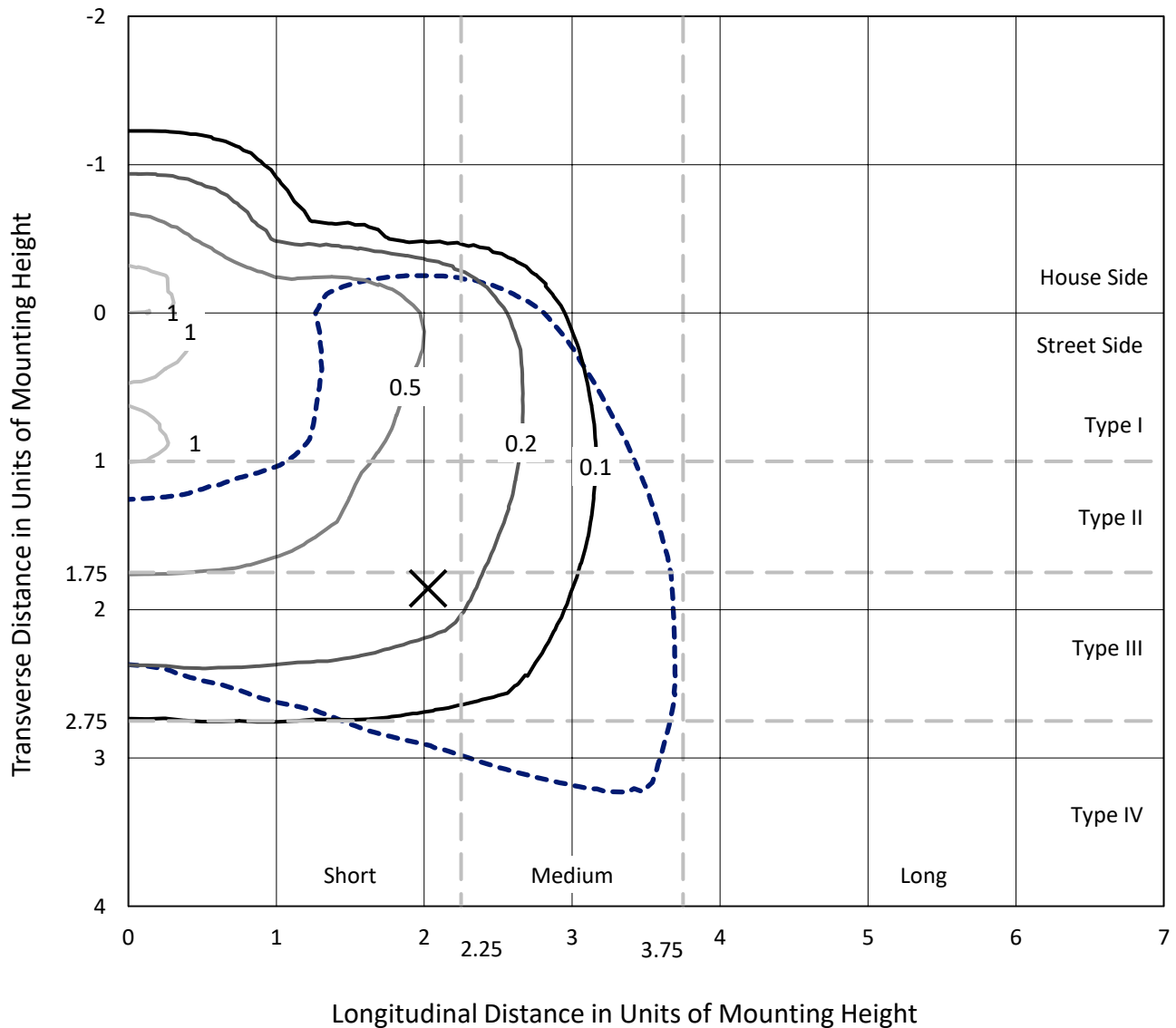


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

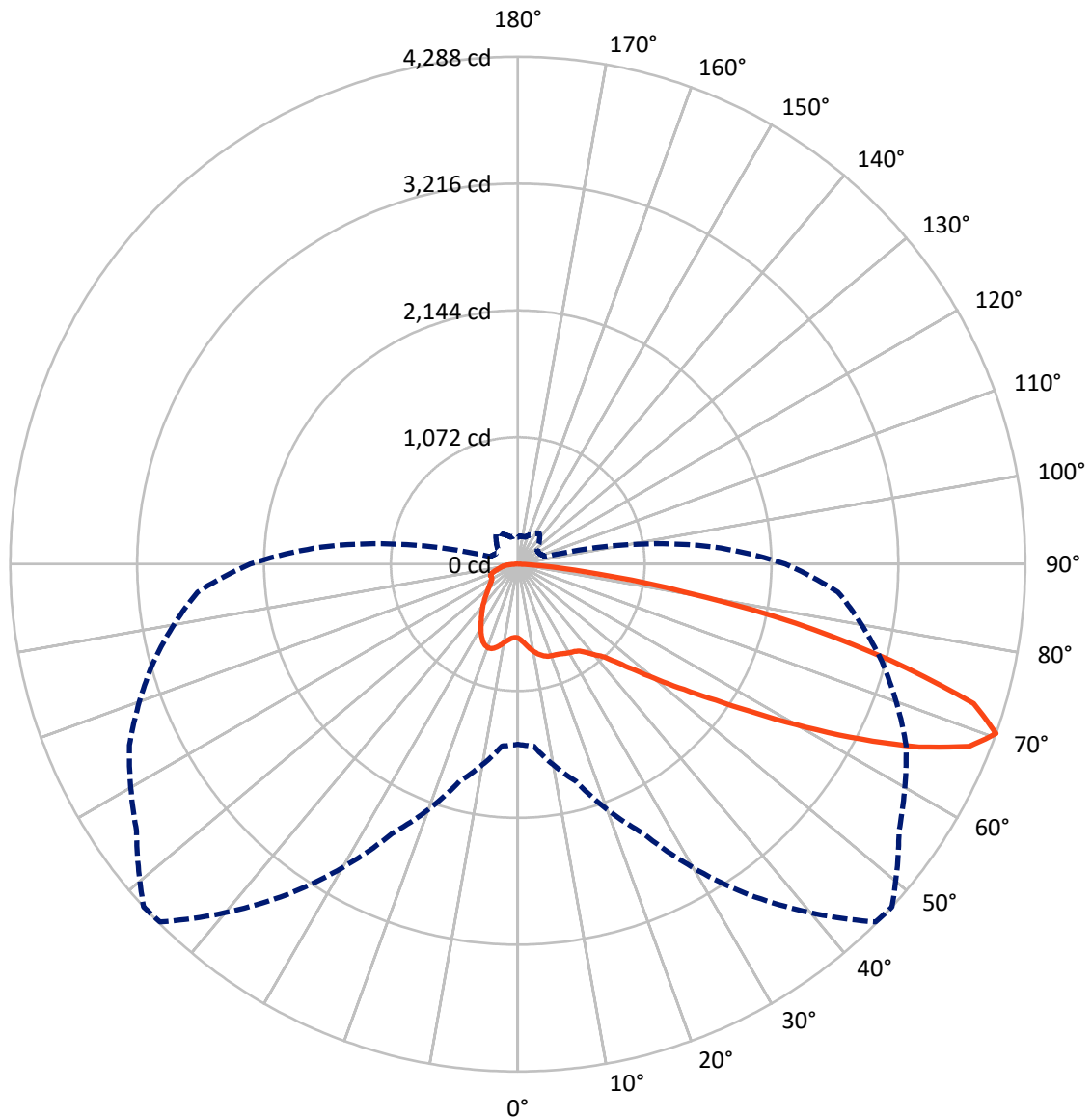


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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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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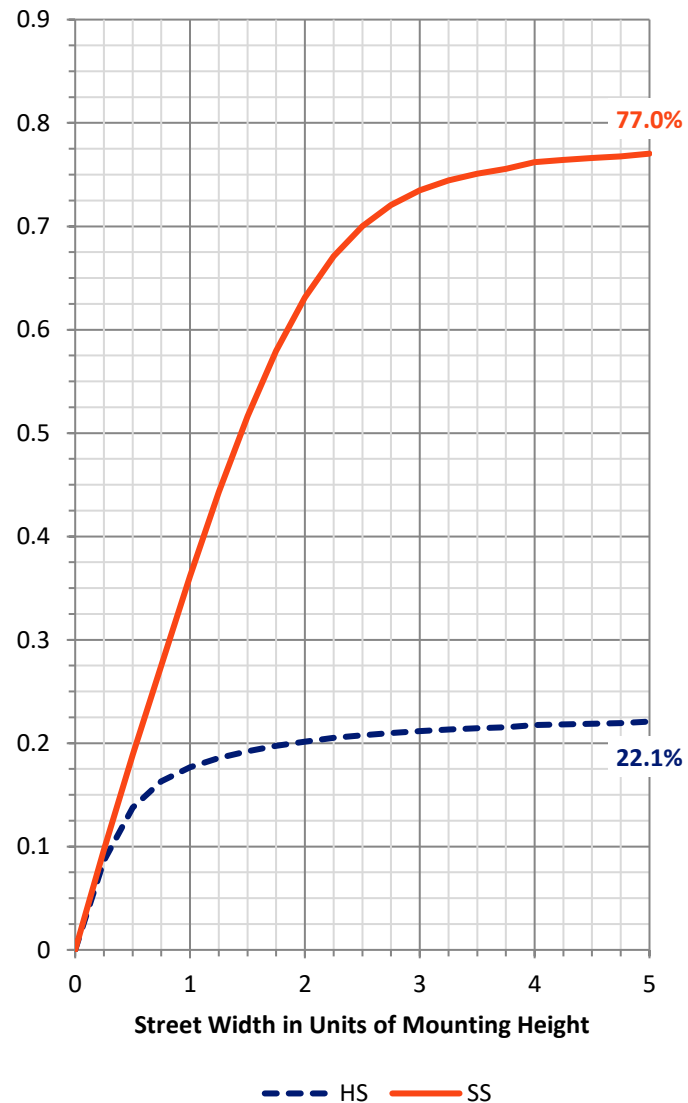
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1409.5	0.0	1409.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4815.5	0.0	4815.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	6225.0	0.0	6225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	1.0
10°-20°	215.3	3.5
20°-30°	358.1	5.8
30°-40°	507.6	8.2
40°-50°	749.3	12.0
50°-60°	1297.8	20.8
60°-70°	1833.2	29.4
70°-80°	1053.8	16.9
80°-90°	145.4	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°	6225.0	100.0
0°-180°	6225.0	100.0

Coefficient of Utilization



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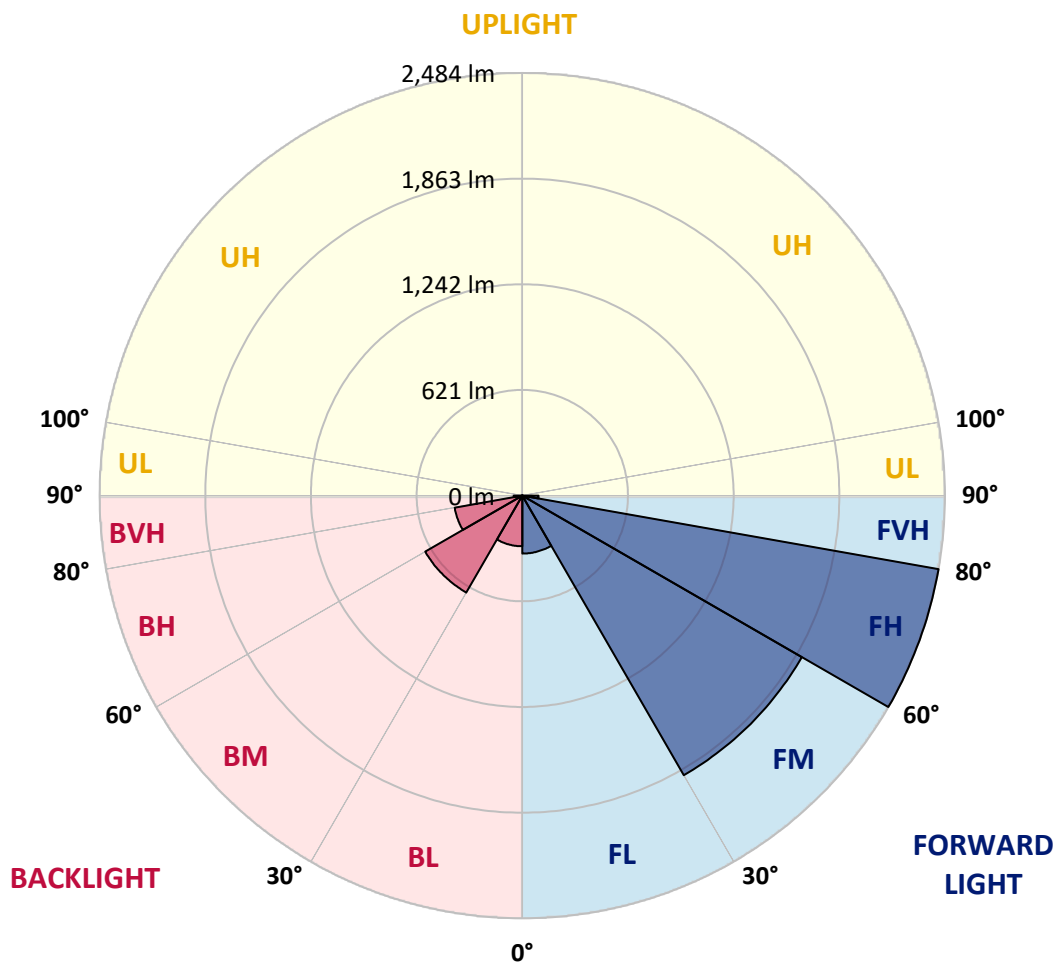
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.4	5.5			
FM	(30°-60°)	1896.6	30.5			
FH	(60°-80°)	2483.5	39.9			G2/5000
FVH	(80°-90°)	95.0	1.5			G1/100
BL	(0°-30°)	297.5	4.8	B1/500		
BM	(30°-60°)	658.1	10.6	B1/1000		
BH	(60°-80°)	403.5	6.5	B1/500		G1/500
BVH	(80°-90°)	50.4	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°	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9
2.5°	665.2	662.9	662.6	657.6	654.9	649.9	647.9	643.2	637.6	631.9	626.6
5°	717.5	717.5	715.2	708.2	697.2	685.9	680.9	671.9	655.9	642.9	631.9
7.5°	771.2	771.8	767.2	756.8	741.2	722.8	718.2	704.9	682.2	663.2	646.9
10°	817.5	817.5	811.1	797.1	777.5	757.5	752.8	737.8	712.5	688.9	667.6
12.5°	852.8	852.8	844.4	826.1	804.8	786.8	781.5	767.2	743.5	717.2	690.2
15°	875.7	874.1	864.8	844.1	823.4	807.8	804.1	792.1	770.5	743.8	713.5
17.5°	876.7	876.1	867.1	849.8	831.8	821.1	818.8	810.8	793.8	768.5	736.5
20°	857.4	858.8	852.8	840.4	831.8	827.1	826.1	823.4	811.5	787.8	755.8
22.5°	836.8	839.1	833.4	826.8	826.1	830.8	831.4	832.1	824.4	801.5	772.1
25°	831.8	833.4	827.8	821.8	825.4	837.8	840.4	843.1	837.1	817.8	791.5
27.5°	857.1	855.8	844.8	831.8	834.1	850.8	854.4	857.4	854.4	837.8	815.5
30°	928.7	924.4	902.4	864.4	852.4	864.1	867.8	876.1	876.1	863.8	841.4
32.5°	1048.6	1040.3	1000.0	925.4	883.7	876.7	880.4	894.1	901.1	891.4	867.1
35°	1194.2	1185.5	1127.9	1027.6	941.0	902.1	901.1	916.4	935.0	913.4	881.7
37.5°	1340.4	1331.4	1262.2	1149.6	1024.6	955.4	949.4	954.7	962.7	923.0	902.1
40°	1486.7	1476.0	1415.4	1285.8	1126.9	1026.0	1010.3	986.3	983.0	954.7	941.4
42.5°	1631.6	1621.9	1591.3	1438.7	1249.5	1094.9	1070.9	1029.6	1042.3	1025.3	1013.7
45°	1777.8	1778.5	1745.8	1610.3	1397.4	1222.2	1189.9	1125.2	1155.2	1148.9	1155.6
47.5°	1907.4	1905.7	1894.1	1776.8	1580.9	1386.1	1344.4	1269.5	1320.8	1344.1	1395.1
50°	2033.0	2032.0	2032.6	1965.7	1794.1	1580.9	1535.0	1456.4	1571.9	1652.9	1744.2
52.5°	2212.9	2218.5	2178.2	2160.6	2053.3	1811.1	1760.5	1679.2	1868.7	1996.3	2174.5
55°	2393.4	2388.7	2357.1	2375.4	2324.4	2083.6	2030.6	1966.0	2199.2	2338.8	2606.6
57.5°	2499.7	2501.3	2533.6	2623.2	2659.2	2423.4	2375.4	2325.4	2570.6	2669.5	2991.0
60°	2595.3	2602.9	2695.9	2865.1	2962.7	2840.8	2798.1	2749.5	2911.4	2950.7	3324.8
62.5°	2625.2	2648.9	2811.1	3064.3	3258.5	3311.8	3258.8	3151.6	3235.8	3220.5	3551.0
65°	2475.7	2508.0	2798.8	3138.9	3522.6	3758.8	3725.2	3526.0	3512.3	3420.0	3587.9
67.5°	2081.9	2114.3	2487.7	2982.3	3631.9	4145.9	4112.2	3799.1	3680.2	3438.7	3308.1
70°	1523.3	1543.6	1900.7	2511.0	3412.4	4275.8	4287.5	3932.4	3620.2	3185.2	2716.2
72.5°	877.7	922.7	1172.9	1766.5	2787.8	3947.4	4028.3	3655.2	3241.2	2657.2	1899.1
75°	377.4	378.4	542.3	974.3	1888.1	3172.9	3251.2	3030.0	2545.3	1837.4	1014.0
77.5°	179.5	182.9	238.5	435.0	1039.3	2192.2	2403.4	2140.6	1627.9	882.7	383.1
80°	116.6	118.9	145.9	215.9	509.7	1271.1	1418.4	1234.8	718.2	315.5	165.2
82.5°	70.6	71.3	97.6	131.9	280.5	575.6	678.5	536.0	306.5	188.9	97.3
85°	43.0	43.3	59.3	81.6	170.2	198.9	204.2	202.5	179.9	123.6	52.0
87.5°	20.7	21.3	30.6	38.6	67.0	61.6	58.3	67.6	84.9	66.6	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°	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9	624.9
2.5°	624.2	623.2	620.9	619.9	619.3	619.6	619.3	619.3	619.6	619.6	619.6
5°	627.2	625.6	621.9	621.9	623.9	628.6	632.9	636.2	639.9	639.6	639.6
7.5°	640.2	637.2	632.9	634.2	639.2	646.6	654.2	661.6	668.9	669.6	669.2
10°	659.2	656.2	651.6	653.2	661.2	672.2	681.9	692.5	700.5	702.9	702.2
12.5°	680.9	674.9	670.9	675.5	688.2	702.9	712.2	720.2	725.8	729.2	727.8
15°	702.9	697.2	692.5	702.2	717.5	731.2	735.8	737.2	738.2	741.5	740.8
17.5°	724.2	716.5	714.9	727.5	742.2	748.2	745.5	739.8	735.5	738.2	737.8
20°	743.2	737.2	736.5	749.2	754.8	749.2	737.8	727.8	720.2	720.9	720.5
22.5°	761.2	756.5	757.2	762.5	753.5	734.2	715.5	701.9	693.5	695.2	696.2
25°	781.1	776.5	778.1	769.5	739.8	706.2	679.2	667.6	664.2	667.6	669.9
27.5°	807.1	804.1	803.1	769.8	715.5	664.9	634.2	629.9	632.9	640.2	643.9
30°	835.1	835.1	829.8	764.2	682.2	615.3	588.6	589.3	599.6	609.9	613.6
32.5°	862.1	867.8	851.1	748.8	639.2	567.0	546.6	547.3	556.3	569.0	572.3
35°	884.4	900.7	869.4	720.9	588.6	526.3	511.0	502.0	502.3	512.0	514.7
37.5°	915.1	945.4	880.1	679.2	534.6	491.7	474.3	458.7	448.4	444.4	444.4
40°	968.4	1013.0	882.7	617.6	483.7	458.7	434.0	415.4	395.4	377.4	374.1
42.5°	1058.6	1114.9	877.4	546.6	437.7	422.4	398.4	375.4	347.8	322.5	320.5
45°	1218.5	1247.5	863.1	473.0	396.7	387.4	364.1	339.1	309.8	287.1	285.5
47.5°	1474.7	1433.7	844.1	407.7	359.4	356.8	338.8	309.8	280.5	264.8	263.2
50°	1848.8	1726.8	841.4	360.4	329.4	330.8	316.1	289.5	263.8	250.8	248.8
52.5°	2299.1	2080.9	859.1	327.1	303.1	308.1	300.8	276.1	253.5	242.5	240.5
55°	2736.2	2399.4	869.8	301.1	278.5	287.8	288.8	268.2	247.5	236.5	235.2
57.5°	3090.9	2639.2	822.4	277.5	257.2	271.5	278.8	263.5	244.5	236.2	234.8
60°	3337.8	2752.5	687.9	256.5	241.5	258.5	275.1	263.8	251.8	252.8	253.5
62.5°	3416.4	2702.2	516.0	240.8	230.8	254.2	281.1	277.5	265.2	272.8	274.1
65°	3286.1	2494.3	374.1	228.5	221.5	257.2	299.1	287.5	260.5	266.2	266.2
67.5°	2850.1	2148.9	291.1	217.2	210.9	262.8	317.1	286.5	249.5	256.2	250.2
70°	2260.8	1662.2	242.5	204.5	199.5	254.5	318.8	276.1	236.5	237.8	226.5
72.5°	1500.3	1092.9	208.5	192.5	182.2	228.8	305.1	262.8	223.9	216.2	204.9
75°	735.2	545.0	181.9	177.5	159.6	199.2	286.5	250.2	210.2	198.2	191.9
77.5°	284.8	231.8	155.2	158.6	138.9	175.5	261.8	232.2	192.2	175.9	170.9
80°	138.2	131.6	127.2	132.2	114.3	149.6	239.2	216.5	175.5	157.6	150.2
82.5°	85.9	81.3	97.6	102.9	87.9	136.6	226.8	203.2	154.6	130.6	124.6
85°	43.6	46.6	65.3	70.3	63.0	108.6	186.9	152.6	111.6	92.6	93.3
87.5°	16.7	22.3	34.3	37.0	33.6	57.3	102.9	88.9	71.6	48.6	45.0
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)