

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: P647802

Luminaire Tested: **GALN-SA2A-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P647802
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-SA2A-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7205.9 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

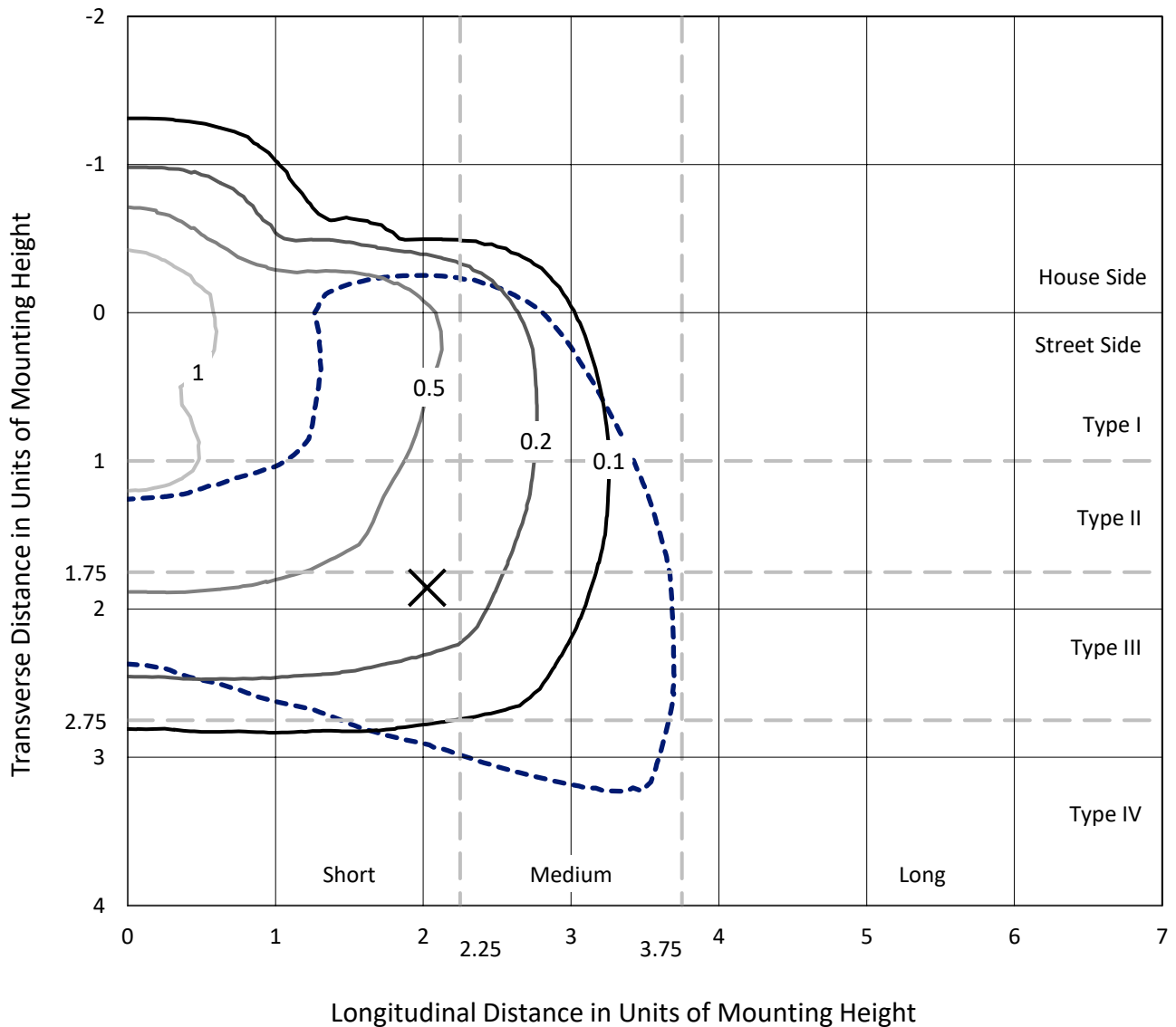
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

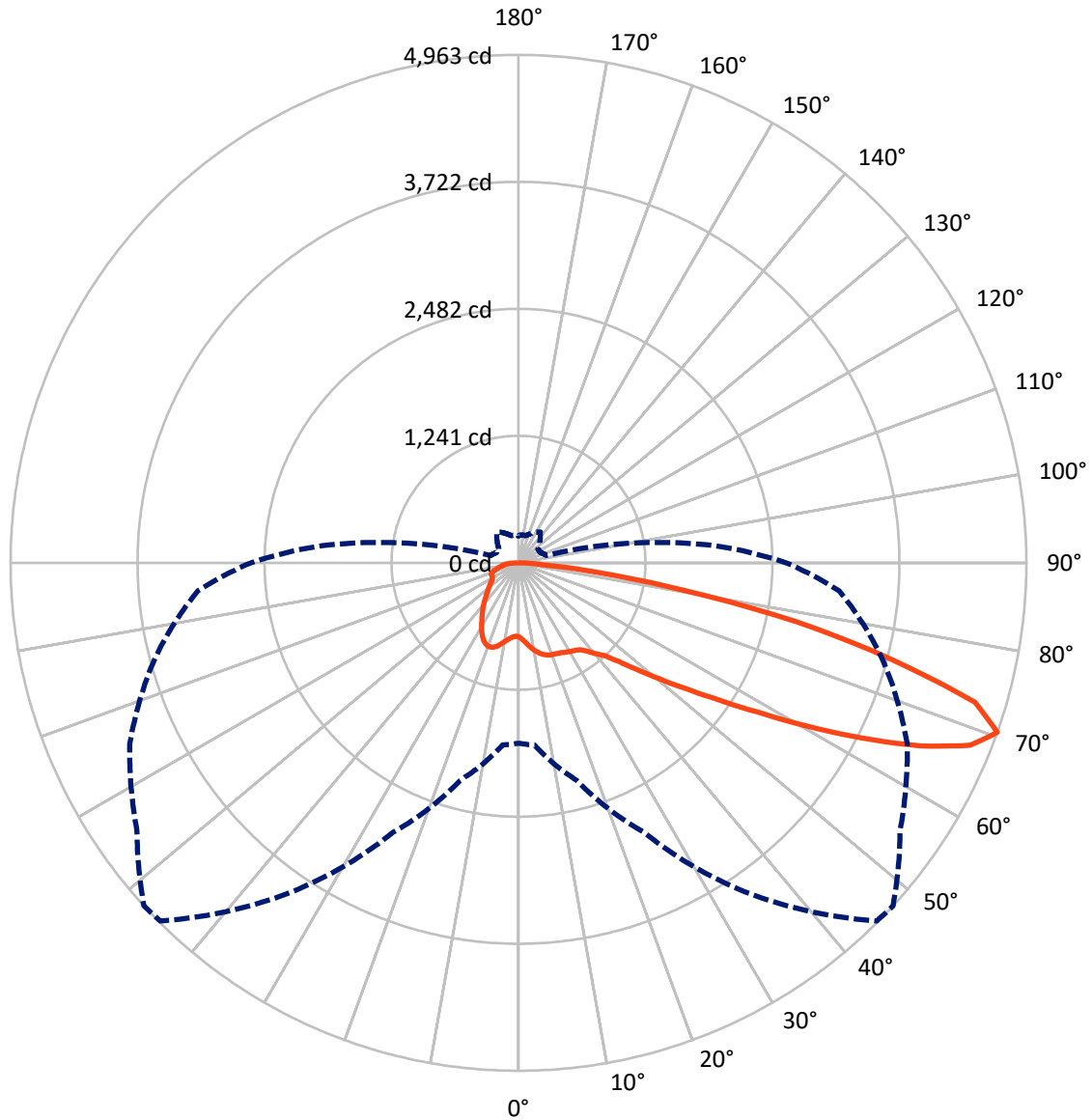
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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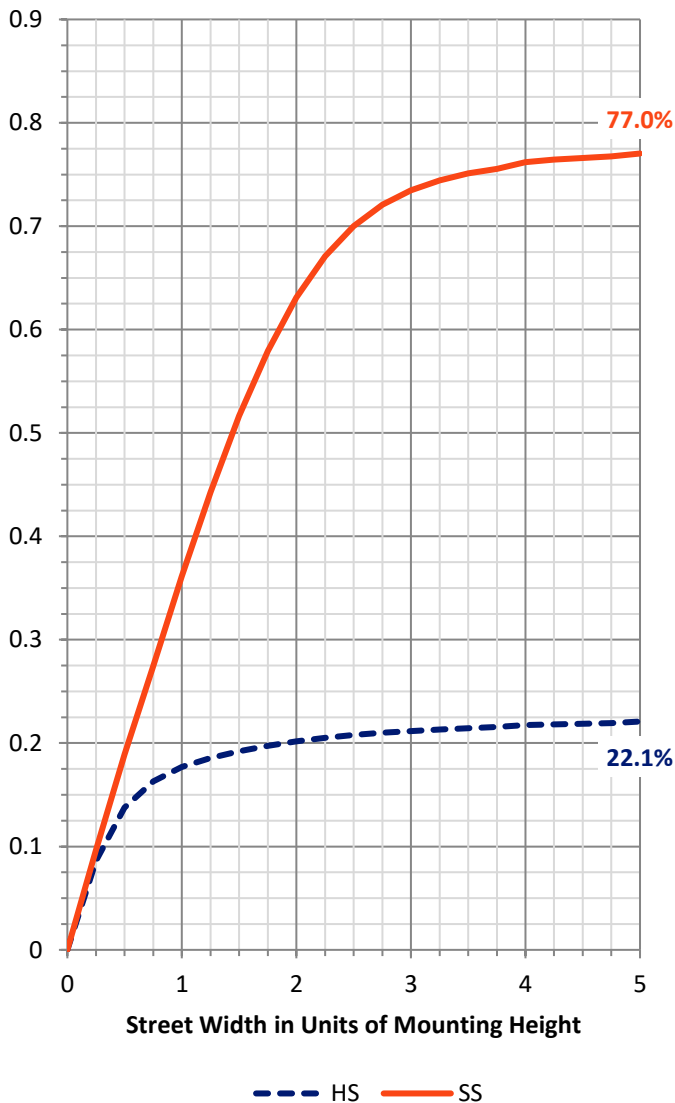
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1631.6	0.0	1631.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5574.4	0.0	5574.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	7205.9	0.0	7205.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.0
10°-20°	249.3	3.5
20°-30°	414.6	5.8
30°-40°	587.6	8.2
40°-50°	867.4	12.0
50°-60°	1502.3	20.8
60°-70°	2122.1	29.4
70°-80°	1219.9	16.9
80°-90°	168.3	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°	7205.9	100.0
0°-180°	7205.9	100.0

Coefficient of Utilization



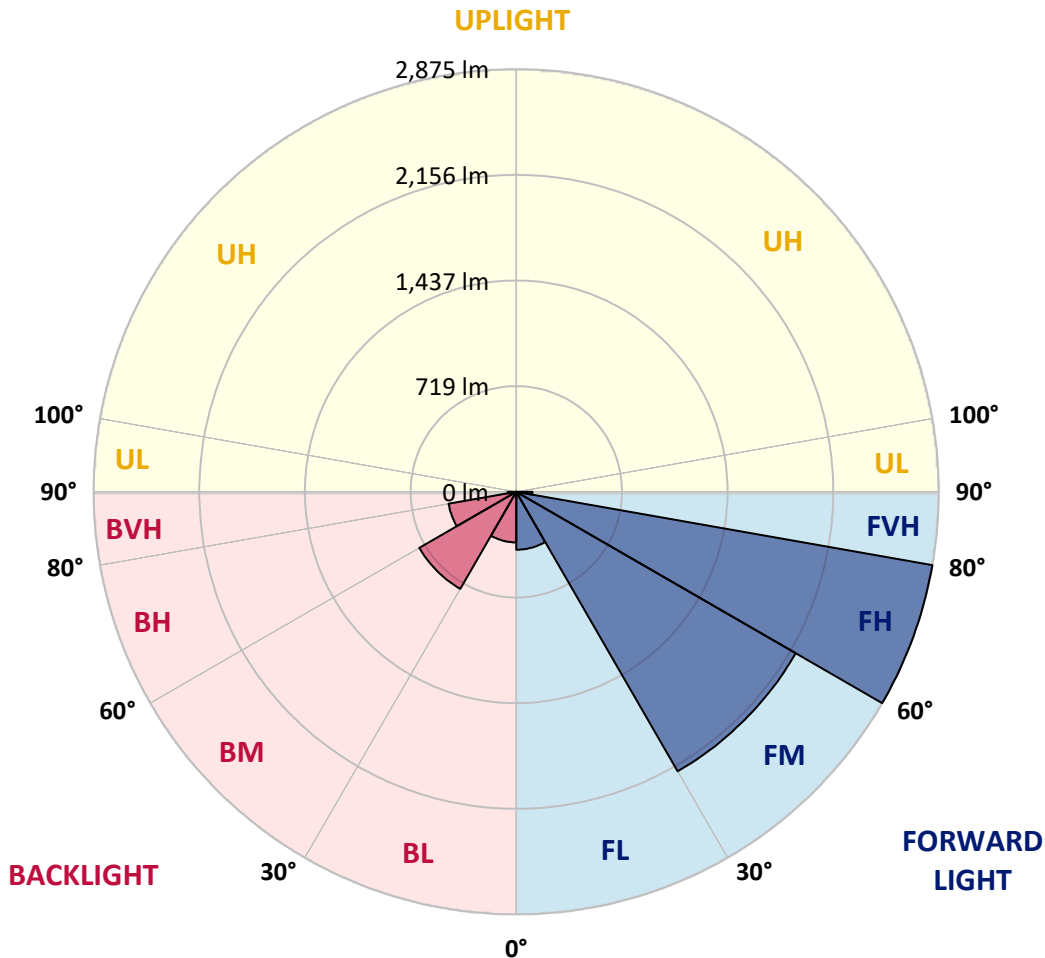
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	394.1	5.5			
FM (30°-60°)	2195.5	30.5			
FH (60°-80°)	2874.9	39.9			G2/5000
FVH (80°-90°)	109.9	1.5			G2/225
BL (0°-30°)	344.4	4.8	B1/500		
BM (30°-60°)	761.8	10.6	B1/1000		
BH (60°-80°)	467.1	6.5	B1/500		G1/500
BVH (80°-90°)	58.4	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°	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4
2.5°	770.1	767.3	766.9	761.2	758.1	752.3	750.0	744.6	738.1	731.5	725.3
5°	830.6	830.6	827.9	819.8	807.0	794.0	788.2	777.8	759.3	744.2	731.5
7.5°	892.7	893.4	888.1	876.1	857.9	836.8	831.4	816.0	789.7	767.7	748.9
10°	946.3	946.3	939.0	922.8	900.0	876.9	871.5	854.1	824.8	797.4	772.7
12.5°	987.1	987.1	977.5	956.3	931.6	910.8	904.6	888.1	860.7	830.2	799.0
15°	1013.8	1011.8	1001.0	977.1	953.2	935.1	930.8	917.0	891.9	861.1	826.0
17.5°	1014.9	1014.1	1003.7	983.7	962.9	950.5	947.8	938.6	918.9	889.6	852.5
20°	992.5	994.1	987.1	972.9	962.9	957.5	956.3	953.2	939.4	912.0	874.9
22.5°	968.6	971.3	964.8	957.1	956.3	961.7	962.5	963.2	954.4	927.8	893.8
25°	962.9	964.8	958.2	951.3	955.5	969.8	972.9	975.9	969.0	946.6	916.2
27.5°	992.1	990.7	977.9	962.9	965.5	984.9	989.1	992.5	989.1	969.8	944.0
30°	1075.1	1070.0	1044.6	1000.7	986.7	1000.3	1004.5	1014.1	1014.1	999.9	974.1
32.5°	1213.9	1204.3	1157.6	1071.2	1023.0	1014.9	1019.2	1035.0	1043.0	1031.8	1003.7
35°	1382.4	1372.4	1305.7	1189.6	1089.3	1044.2	1043.0	1060.8	1082.4	1057.3	1020.7
37.5°	1551.7	1541.3	1461.1	1330.7	1186.1	1105.9	1098.9	1105.1	1114.4	1068.5	1044.2
40°	1721.0	1708.6	1638.4	1488.4	1304.5	1187.7	1169.6	1141.8	1137.9	1105.1	1089.7
42.5°	1888.7	1877.5	1842.0	1665.4	1446.4	1267.4	1239.7	1191.9	1206.5	1186.9	1173.4
45°	2058.0	2058.7	2020.9	1864.0	1617.6	1414.8	1377.4	1302.6	1337.3	1329.9	1337.7
47.5°	2208.0	2206.0	2192.6	2056.8	1830.1	1604.5	1556.3	1469.5	1528.9	1555.9	1614.9
50°	2353.3	2352.2	2352.9	2275.5	2076.8	1830.1	1776.9	1685.9	1819.7	1913.3	2019.0
52.5°	2561.6	2568.1	2521.4	2501.0	2376.9	2096.5	2037.9	1943.8	2163.2	2310.9	2517.2
55°	2770.6	2765.2	2728.5	2749.7	2690.7	2412.0	2350.6	2275.8	2545.8	2707.3	3017.4
57.5°	2893.6	2895.5	2932.9	3036.6	3078.3	2805.3	2749.7	2691.9	2975.7	3090.2	3462.3
60°	3004.2	3013.1	3120.6	3316.6	3429.5	3288.4	3239.0	3182.7	3370.2	3415.7	3848.7
62.5°	3038.9	3066.3	3254.1	3547.1	3771.9	3833.6	3772.3	3648.2	3745.7	3728.0	4110.5
65°	2865.8	2903.2	3239.8	3633.5	4077.8	4351.1	4312.2	4081.6	4065.8	3959.0	4153.3
67.5°	2410.0	2447.4	2879.7	3452.3	4204.2	4799.2	4760.2	4397.8	4260.1	3980.5	3829.4
70°	1763.4	1786.9	2200.2	2906.7	3950.1	4949.6	4963.1	4552.0	4190.7	3687.1	3144.2
72.5°	1016.1	1068.1	1357.7	2044.9	3227.1	4569.4	4663.1	4231.3	3751.9	3075.9	2198.4
75°	436.9	438.0	627.7	1127.9	2185.6	3672.9	3763.5	3507.4	2946.4	2127.0	1173.8
77.5°	207.8	211.7	276.1	503.6	1203.1	2537.6	2782.2	2477.9	1884.4	1021.8	443.4
80°	135.0	137.7	168.9	249.9	590.0	1471.5	1641.9	1429.4	831.4	365.2	191.3
82.5°	81.7	82.5	113.0	152.7	324.7	666.3	785.5	620.4	354.8	218.6	112.6
85°	49.7	50.1	68.7	94.5	197.1	230.2	236.4	234.4	208.2	143.1	60.1
87.5°	23.9	24.7	35.5	44.7	77.5	71.3	67.5	78.3	98.3	77.1	25.8
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°	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4	723.4
2.5°	722.6	721.5	718.8	717.6	716.8	717.2	716.8	716.8	717.2	717.2	717.2
5°	726.1	724.2	719.9	719.9	722.2	727.6	732.7	736.5	740.7	740.3	740.3
7.5°	741.1	737.7	732.7	734.2	739.9	748.5	757.3	765.8	774.3	775.1	774.7
10°	763.1	759.7	754.3	756.1	765.4	778.1	789.3	801.6	811.0	813.6	812.8
12.5°	788.2	781.2	776.6	782.0	796.6	813.6	824.4	833.7	840.2	844.1	842.5
15°	813.6	807.0	801.6	812.8	830.6	846.4	851.8	853.3	854.5	858.3	857.5
17.5°	838.3	829.4	827.5	842.2	859.1	866.1	862.9	856.4	851.4	854.5	854.1
20°	860.3	853.3	852.5	867.3	873.7	867.3	854.1	842.5	833.7	834.4	834.1
22.5°	881.1	875.7	876.5	882.7	872.3	849.9	828.3	812.4	802.8	804.8	805.9
25°	904.2	898.8	900.8	890.7	856.4	817.5	786.2	772.7	768.9	772.7	775.5
27.5°	934.4	930.8	929.7	891.1	828.3	769.7	734.2	729.2	732.7	741.1	745.3
30°	966.7	966.7	960.5	884.6	789.7	712.2	681.4	682.1	694.1	706.0	710.3
32.5°	997.9	1004.5	985.2	866.9	739.9	656.3	632.7	633.5	643.9	658.6	662.5
35°	1023.8	1042.6	1006.4	834.4	681.4	609.3	591.5	581.1	581.5	592.7	595.8
37.5°	1059.2	1094.3	1018.8	786.2	618.9	569.2	549.1	531.0	519.1	514.4	514.4
40°	1120.9	1172.6	1021.8	714.9	559.9	531.0	502.5	480.8	457.7	436.9	433.0
42.5°	1225.5	1290.6	1015.7	632.7	506.7	488.9	461.2	434.6	402.5	373.3	371.0
45°	1410.5	1444.1	999.1	547.6	459.2	448.4	421.5	392.5	358.6	332.4	330.4
47.5°	1707.1	1659.6	977.1	472.0	416.1	413.0	392.1	358.6	324.7	306.5	304.6
50°	2140.1	1999.0	974.1	417.3	381.4	382.9	366.0	335.1	305.4	290.3	288.1
52.5°	2661.4	2408.8	994.5	378.7	350.9	356.7	348.2	319.7	293.5	280.7	278.4
55°	3167.3	2777.5	1006.8	348.6	322.4	333.2	334.3	310.4	286.5	273.8	272.2
57.5°	3578.0	3055.1	952.0	321.2	297.7	314.3	322.8	305.0	283.1	273.4	271.9
60°	3863.7	3186.3	796.2	296.9	279.5	299.3	318.5	305.4	291.5	292.7	293.5
62.5°	3954.8	3128.0	597.3	278.8	267.2	294.3	325.4	321.2	306.9	315.8	317.3
65°	3804.0	2887.4	433.0	264.5	256.4	297.7	346.2	332.8	301.5	308.1	308.1
67.5°	3299.2	2487.5	337.0	251.4	244.1	304.3	367.1	331.6	288.8	296.5	289.6
70°	2617.1	1924.1	280.7	236.8	231.0	294.6	369.0	319.7	273.8	275.3	262.2
72.5°	1736.8	1265.2	241.4	222.8	210.9	264.9	353.2	304.3	259.1	250.2	237.2
75°	851.0	630.9	210.5	205.5	184.7	230.6	331.6	289.6	243.3	229.4	222.1
77.5°	329.7	268.4	179.7	183.5	160.8	203.2	303.1	268.8	222.5	203.6	197.8
80°	160.0	152.3	147.3	153.1	132.2	173.1	276.9	250.6	203.2	182.4	173.9
82.5°	99.5	94.1	113.0	119.2	101.8	158.1	262.6	235.2	178.9	151.1	144.2
85°	50.5	53.9	75.6	81.4	72.9	125.7	216.3	176.6	129.2	107.2	108.0
87.5°	19.3	25.8	39.7	42.8	38.9	66.3	119.2	103.0	82.9	56.3	52.1
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)