

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: P647798

Luminaire Tested: **GALN-SA2A-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7141 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

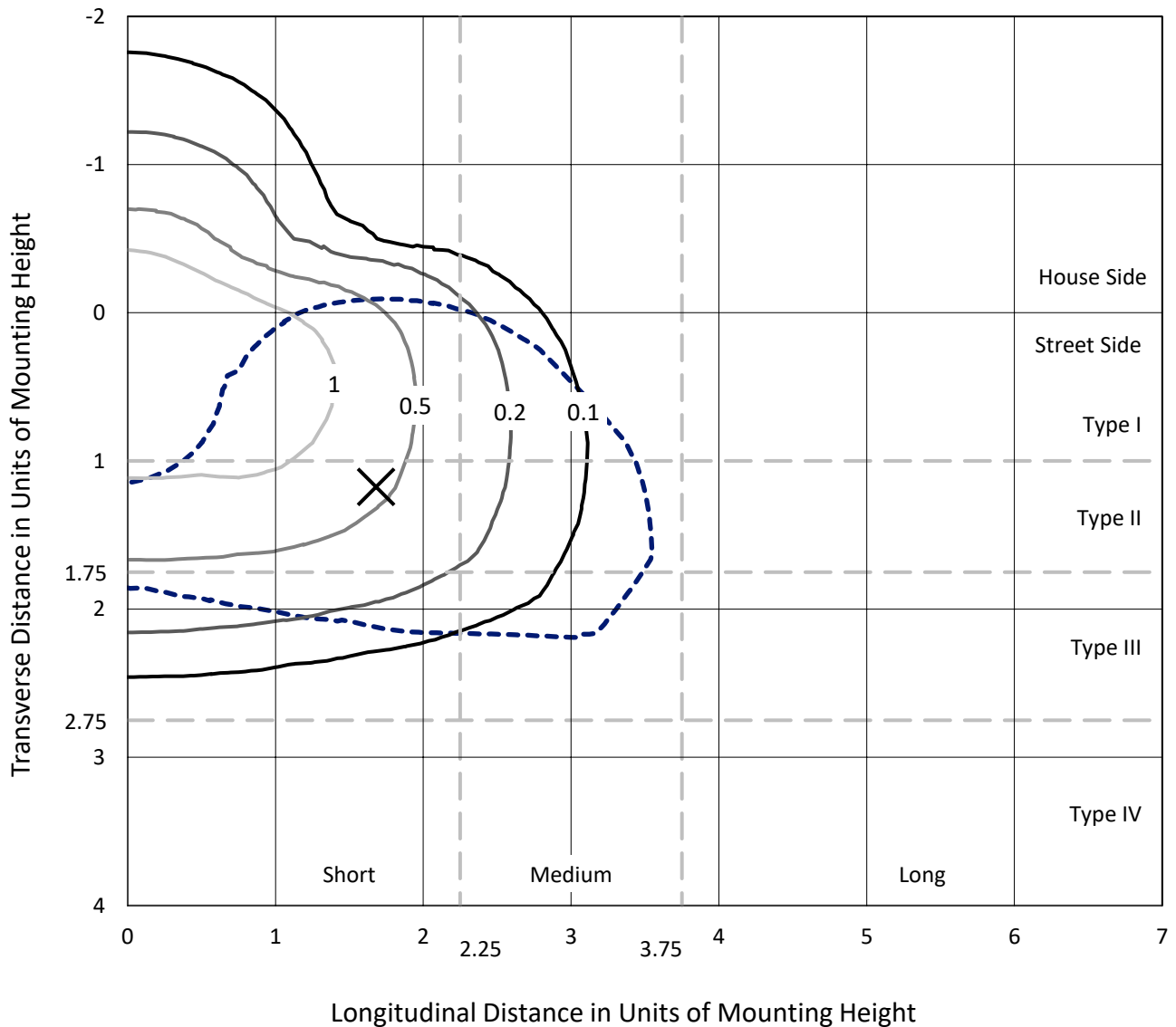
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA2A-835-U-T3

Iso-Footcandle Lines of Horizontal Illumination

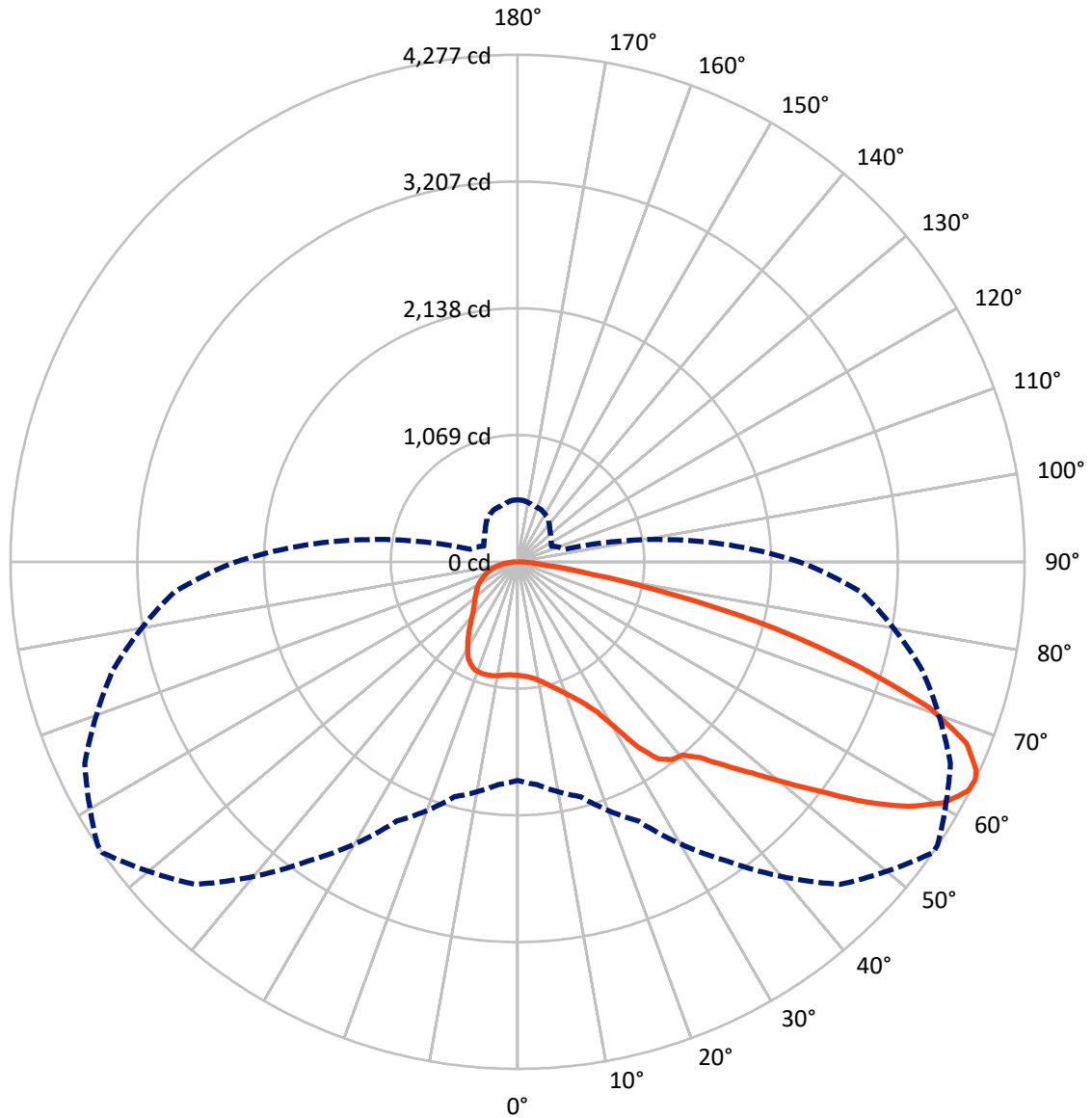
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

REPORT NUMBER: P647798
CATALOG NUMBER: GALN-SA2A-835-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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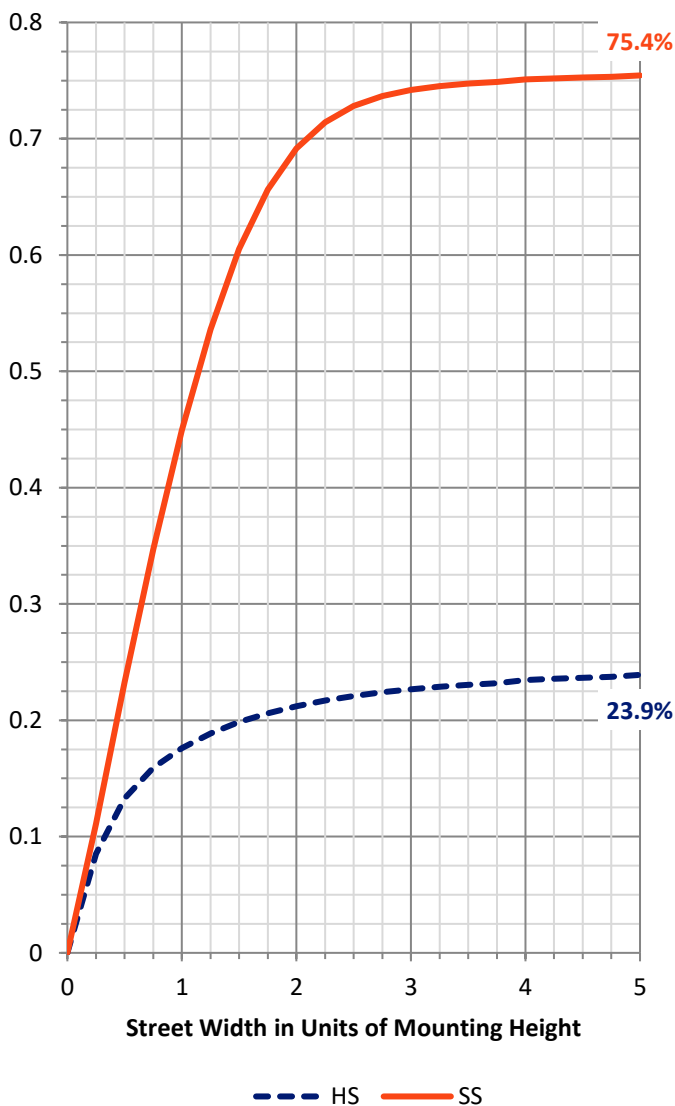
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1734.7	0.0	1734.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	5406.3	0.0	5406.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	7141.0	0.0	7141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	1.3
10°-20°	294.1	4.1
20°-30°	523.5	7.3
30°-40°	805.5	11.3
40°-50°	1141.8	16.0
50°-60°	1652.8	23.1
60°-70°	1710.5	24.0
70°-80°	801.0	11.2
80°-90°	118.6	1.7
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°	7141.0	100.0
0°-180°	7141.0	100.0

Coefficient of Utilization



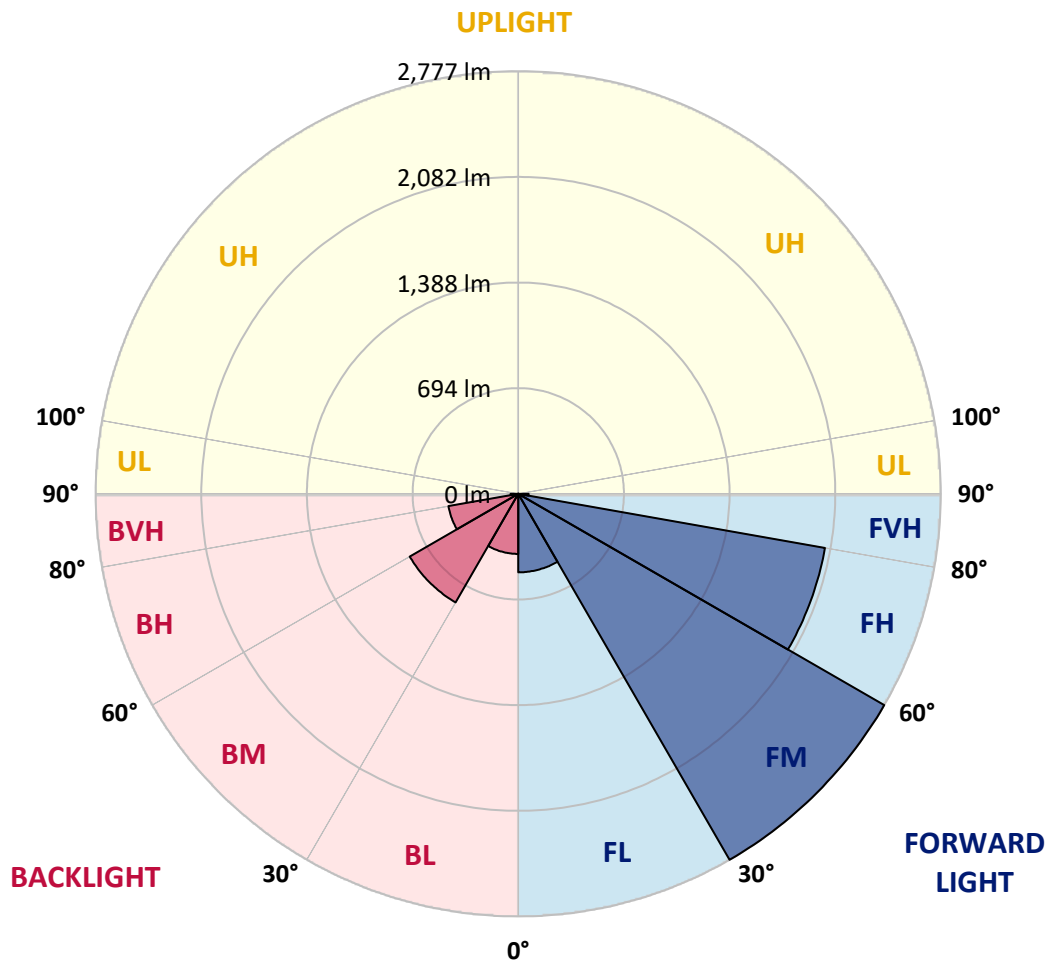
REPORT NUMBER: P647798
 CATALOG NUMBER: GALN-SA2A-835-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.7	7.2			
FM (30°-60°)	2776.6	38.9			
FH (60°-80°)	2046.1	28.7			G2/5000
FVH (80°-90°)	67.9	1.0			G1/100
BL (0°-30°)	395.1	5.5	B1/500		
BM (30°-60°)	823.5	11.5	B1/1000		
BH (60°-80°)	465.4	6.5	B1/500		G1/500
BVH (80°-90°)	50.7	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1
2.5°	968.9	968.4	969.7	968.4	969.3	966.5	965.3	966.1	964.9	962.9	959.3
5°	980.8	980.4	980.8	979.2	980.0	978.4	975.6	976.4	974.4	970.1	964.9
7.5°	1001.1	999.5	999.5	999.1	997.5	995.1	993.2	992.3	990.3	984.8	976.8
10°	1027.4	1027.4	1027.8	1024.6	1026.6	1022.2	1020.2	1019.8	1013.0	1005.8	994.7
12.5°	1062.0	1064.0	1062.8	1061.2	1060.4	1058.8	1052.0	1053.6	1046.1	1033.7	1020.2
15°	1105.0	1108.2	1106.1	1105.4	1103.4	1097.5	1094.6	1093.5	1083.5	1065.6	1047.7
17.5°	1161.9	1157.9	1156.3	1154.4	1146.0	1141.6	1136.8	1136.1	1127.3	1106.1	1078.3
20°	1211.7	1217.3	1214.0	1212.1	1203.7	1195.3	1191.7	1190.6	1183.0	1159.9	1115.3
22.5°	1271.0	1272.1	1273.4	1268.6	1264.6	1258.2	1251.9	1249.9	1247.1	1223.2	1168.7
25°	1334.2	1339.0	1335.0	1330.2	1325.5	1325.1	1331.1	1330.2	1329.1	1306.0	1239.5
27.5°	1437.4	1441.7	1442.9	1437.7	1419.4	1421.1	1434.5	1438.9	1457.2	1419.0	1330.7
30°	1495.5	1499.8	1509.8	1529.3	1558.3	1583.9	1616.5	1626.4	1643.9	1571.9	1438.9
32.5°	1531.3	1532.9	1550.8	1587.0	1674.2	1769.3	1858.1	1861.7	1872.8	1771.7	1538.0
35°	1587.8	1589.0	1603.3	1643.1	1745.5	1903.9	2041.2	2045.6	2036.4	1833.8	1584.2
37.5°	1657.5	1660.7	1669.8	1702.9	1825.0	2016.5	2117.2	2114.0	2032.8	1883.2	1665.8
40°	1759.0	1759.0	1748.2	1792.8	1909.0	2081.0	2143.9	2138.3	2116.8	2026.1	1790.0
42.5°	1848.5	1846.9	1872.4	1902.7	2014.1	2180.5	2255.7	2264.9	2300.3	2205.6	1931.3
45°	1965.2	1972.3	1986.6	2041.6	2192.9	2350.5	2447.6	2456.3	2506.5	2417.0	2096.5
47.5°	2083.0	2085.4	2130.4	2203.6	2414.1	2580.9	2660.6	2674.9	2720.7	2664.2	2274.5
50°	2166.6	2189.3	2261.3	2376.7	2642.2	2861.9	2924.0	2941.2	3022.0	2933.2	2481.8
52.5°	2255.0	2277.2	2365.2	2541.1	2904.1	3149.4	3225.8	3237.3	3321.3	3205.4	2694.0
55°	2330.6	2351.3	2451.2	2686.8	3112.7	3442.7	3581.2	3567.7	3607.9	3415.3	2857.6
57.5°	2342.9	2359.6	2485.4	2780.0	3269.6	3694.3	3892.9	3900.9	3854.3	3572.0	2992.5
60°	2247.4	2281.6	2426.1	2770.0	3340.0	3869.4	4125.4	4131.0	3998.8	3652.5	3046.3
62.5°	2078.2	2074.6	2249.4	2610.0	3241.3	3909.2	4262.3	4256.3	4055.3	3613.9	2994.1
64°	1844.6	1887.6	2050.8	2413.4	3082.1	3847.9	4276.6	4273.5	4028.2	3533.4	2905.3
65°	1702.1	1699.7	1860.9	2252.5	2923.6	3755.6	4251.1	4246.8	3971.7	3461.4	2836.5
67.5°	1228.8	1234.3	1393.6	1738.3	2376.7	3394.5	4085.1	4068.9	3748.8	3222.6	2574.6
70°	744.3	747.5	872.5	1153.1	1706.0	2744.2	3682.4	3683.2	3407.7	2865.9	2191.2
72.5°	392.0	400.4	450.6	654.8	1036.1	1925.3	2987.4	3058.2	2925.7	2446.0	1731.1
75°	218.1	219.3	254.8	322.8	528.6	1077.5	2245.4	2265.7	2316.3	1968.8	1280.1
77.5°	166.4	168.7	179.9	208.6	287.8	499.6	1358.9	1460.8	1632.4	1388.0	730.4
80°	134.9	137.3	146.9	164.0	191.4	236.9	631.3	686.2	873.7	616.1	285.0
82.5°	105.1	103.5	115.8	127.0	139.3	140.1	259.1	286.6	355.9	265.1	123.4
85°	78.0	78.0	87.9	85.6	90.0	82.0	114.2	126.2	142.5	112.7	57.3
87.5°	31.1	34.2	57.7	51.8	40.2	32.3	42.2	44.6	49.3	44.2	23.9
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°	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1
2.5°	959.7	960.9	958.1	956.1	955.3	954.1	952.9	953.3	954.9	956.5	956.1
5°	964.5	964.9	960.1	957.7	956.1	954.6	954.6	955.7	958.9	961.3	961.3
7.5°	976.4	976.4	969.7	965.3	962.9	960.1	959.3	959.7	962.1	965.3	965.7
10°	995.1	993.5	984.8	978.0	973.7	966.8	960.9	957.7	958.9	960.9	960.9
12.5°	1017.8	1013.4	1002.3	993.2	982.4	969.7	957.3	951.0	950.6	952.5	951.7
15°	1042.1	1037.3	1021.8	1005.1	986.3	967.6	952.9	943.7	936.6	934.6	939.0
17.5°	1070.4	1060.4	1038.9	1015.8	988.0	963.6	940.6	921.9	909.1	905.5	906.7
20°	1104.6	1091.4	1062.4	1026.2	986.7	949.3	913.5	888.5	867.7	861.4	862.2
22.5°	1151.9	1129.2	1086.6	1031.4	976.8	922.3	872.5	839.8	814.8	804.8	810.8
25°	1205.7	1181.0	1109.7	1030.1	951.0	878.9	824.0	781.4	758.6	743.9	747.1
27.5°	1279.7	1236.0	1134.4	1019.4	913.9	826.0	762.3	722.1	701.3	693.8	697.4
30°	1374.5	1307.2	1161.1	990.3	855.4	759.0	700.2	673.9	661.6	652.0	655.2
32.5°	1442.9	1357.3	1167.1	941.4	792.1	698.2	658.0	638.5	624.9	615.8	617.8
35°	1491.8	1399.9	1164.3	881.3	726.1	648.0	624.5	608.6	586.7	566.8	563.2
37.5°	1557.5	1453.2	1144.0	815.6	660.8	614.2	597.5	568.0	536.6	509.9	508.7
40°	1658.2	1515.7	1100.6	738.4	605.0	589.1	568.8	530.6	496.7	475.3	473.7
42.5°	1762.1	1573.5	1041.7	657.2	559.2	562.8	538.2	500.3	479.7	465.7	464.2
45°	1889.1	1636.0	978.0	586.7	525.4	538.2	511.5	489.6	477.2	468.1	465.7
47.5°	2026.5	1700.0	906.3	523.4	496.7	515.4	500.3	490.4	483.7	477.2	474.5
50°	2174.5	1771.7	839.1	472.5	470.9	492.0	499.2	495.6	491.6	489.6	487.2
52.5°	2336.9	1845.0	782.5	436.7	448.2	475.3	499.6	502.4	502.4	501.1	499.6
55°	2446.8	1895.9	725.2	407.6	425.1	461.7	498.8	509.5	513.5	511.9	510.3
57.5°	2528.0	1923.8	653.2	382.5	405.6	448.6	494.4	510.3	514.3	516.2	515.4
60°	2544.8	1897.9	558.8	356.3	384.5	429.5	478.5	498.4	503.5	515.8	517.1
62.5°	2469.5	1818.3	464.9	330.3	358.6	400.4	457.0	484.8	495.2	514.3	516.2
64°	2377.1	1729.1	412.8	314.1	341.9	384.1	446.2	481.2	494.8	520.2	521.9
65°	2309.5	1664.3	380.1	303.7	331.2	373.3	440.2	482.4	498.4	529.4	531.8
67.5°	2060.3	1441.0	314.5	279.5	305.7	355.1	441.5	492.4	497.6	533.0	532.6
70°	1704.8	1147.2	263.5	257.1	281.0	340.4	436.7	476.5	476.8	500.3	494.8
72.5°	1276.5	847.8	228.5	234.0	253.5	305.3	412.4	455.0	448.2	451.4	445.8
75°	876.9	560.9	196.6	209.4	224.9	269.9	378.1	413.2	402.5	398.5	394.5
77.5°	468.1	310.1	163.6	185.1	195.4	233.3	330.0	363.8	352.7	337.2	332.0
80°	189.5	146.1	131.8	153.2	159.2	187.8	274.7	295.7	287.4	260.3	251.6
82.5°	95.1	87.5	103.5	120.6	121.0	134.1	204.2	224.1	205.4	172.3	164.8
85°	49.7	51.4	71.3	84.8	74.9	72.4	122.6	135.8	124.6	108.3	97.5
87.5°	17.9	20.7	37.4	37.0	26.3	13.9	27.1	13.2	7.2	4.4	5.6
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)