

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: P651747

Luminaire Tested: **GALN-SA2A-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6796.2 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

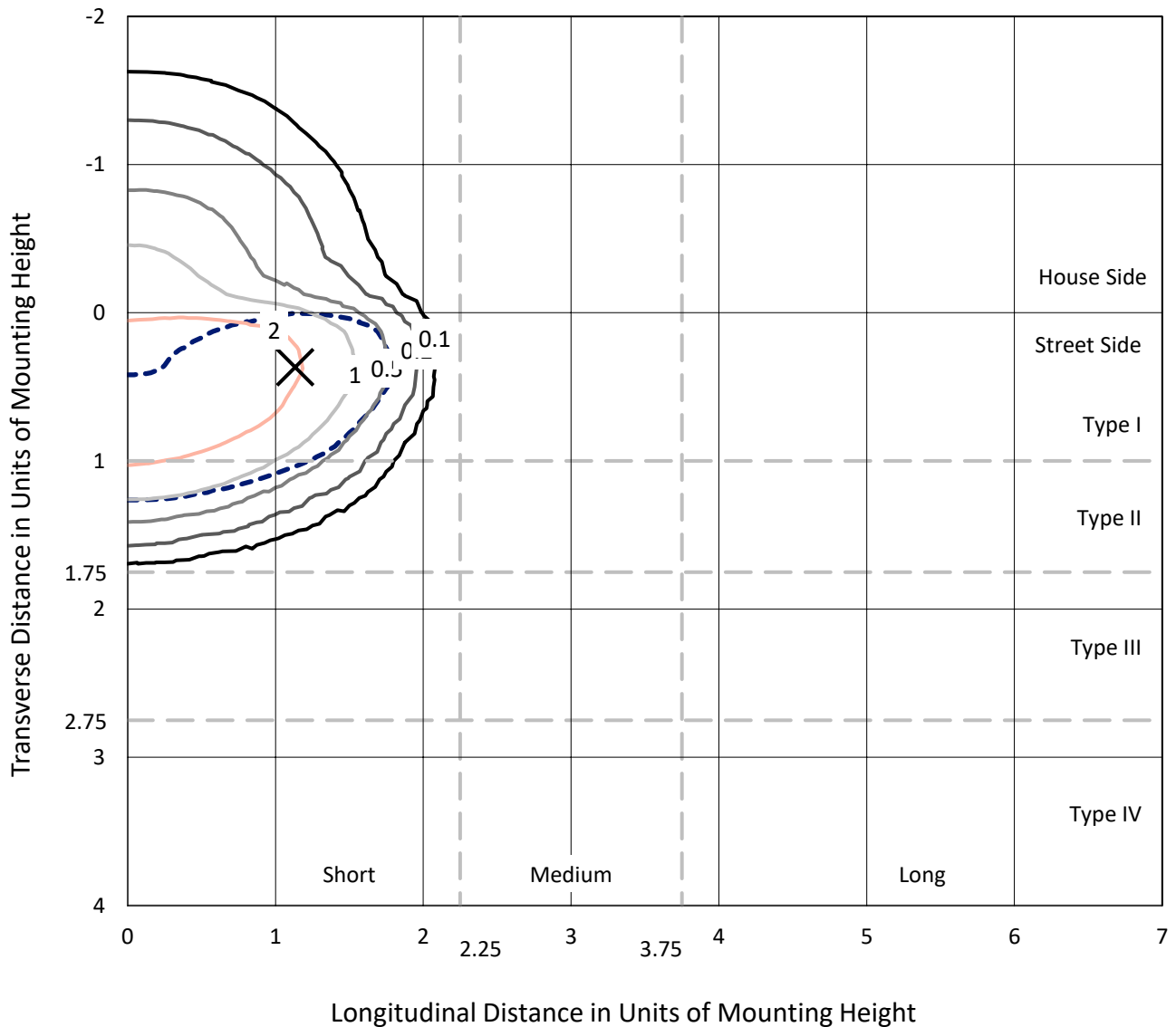
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651747
 CATALOG NUMBER: GALN-SA2A-840-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

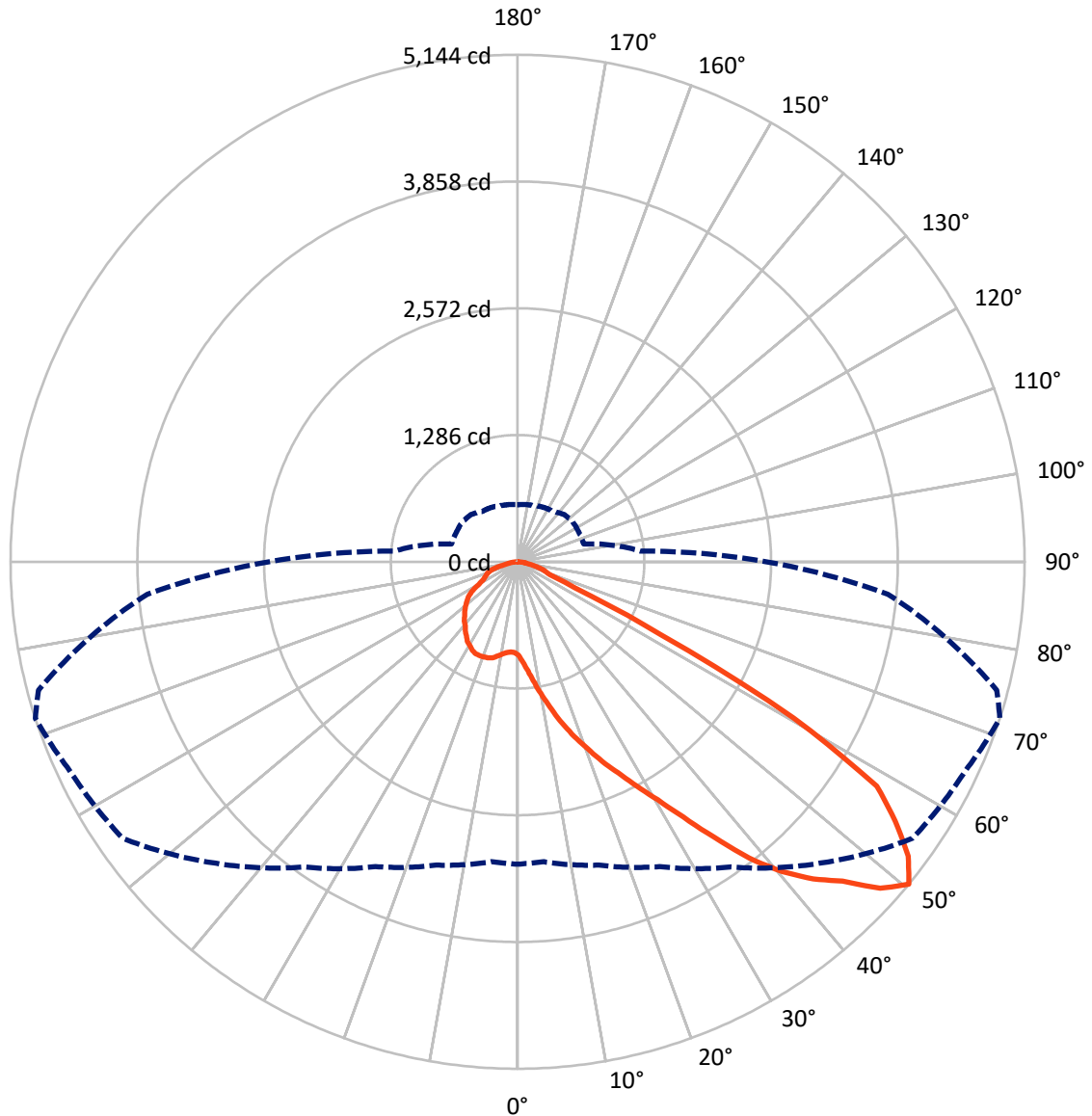
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

REPORT NUMBER: P651747
CATALOG NUMBER: GALN-SA2A-840-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P651747
 CATALOG NUMBER: GALN-SA2A-840-U-T2R-GRSWH

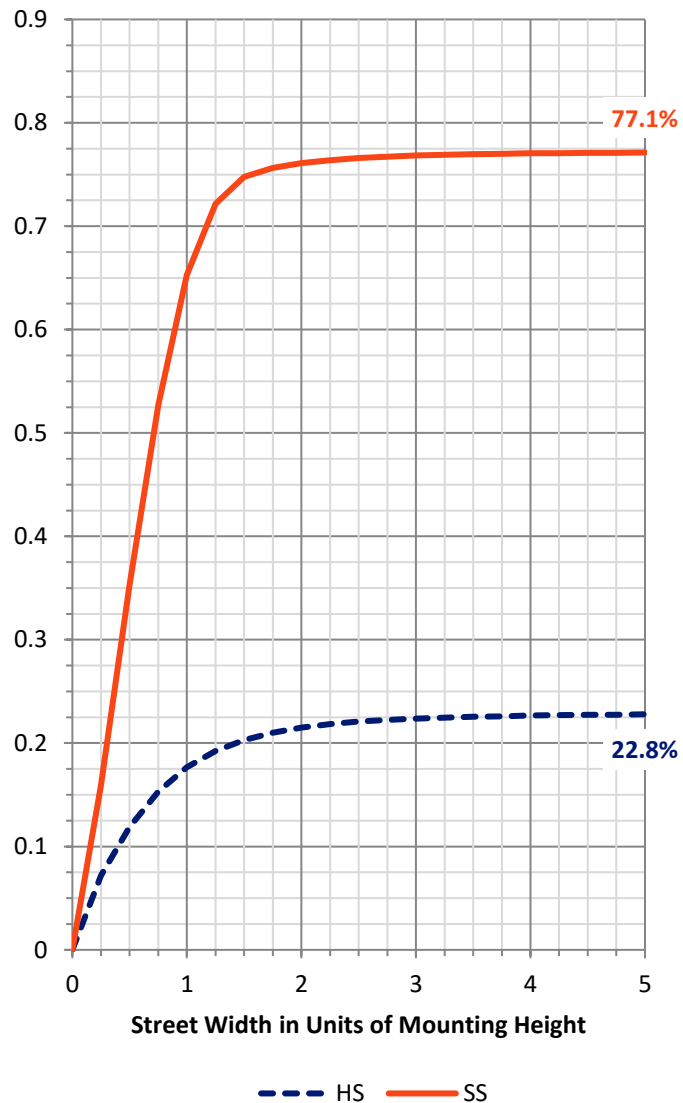
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1557.1	0.0	1557.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5239.1	0.0	5239.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	6796.2	0.0	6796.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	1.6
10°-20°	416.0	6.1
20°-30°	806.6	11.9
30°-40°	1336.3	19.7
40°-50°	1869.8	27.5
50°-60°	1577.4	23.2
60°-70°	480.8	7.1
70°-80°	168.7	2.5
80°-90°	29.3	0.4
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°	6796.2	100.0
0°-180°	6796.2	100.0

Coefficient of Utilization

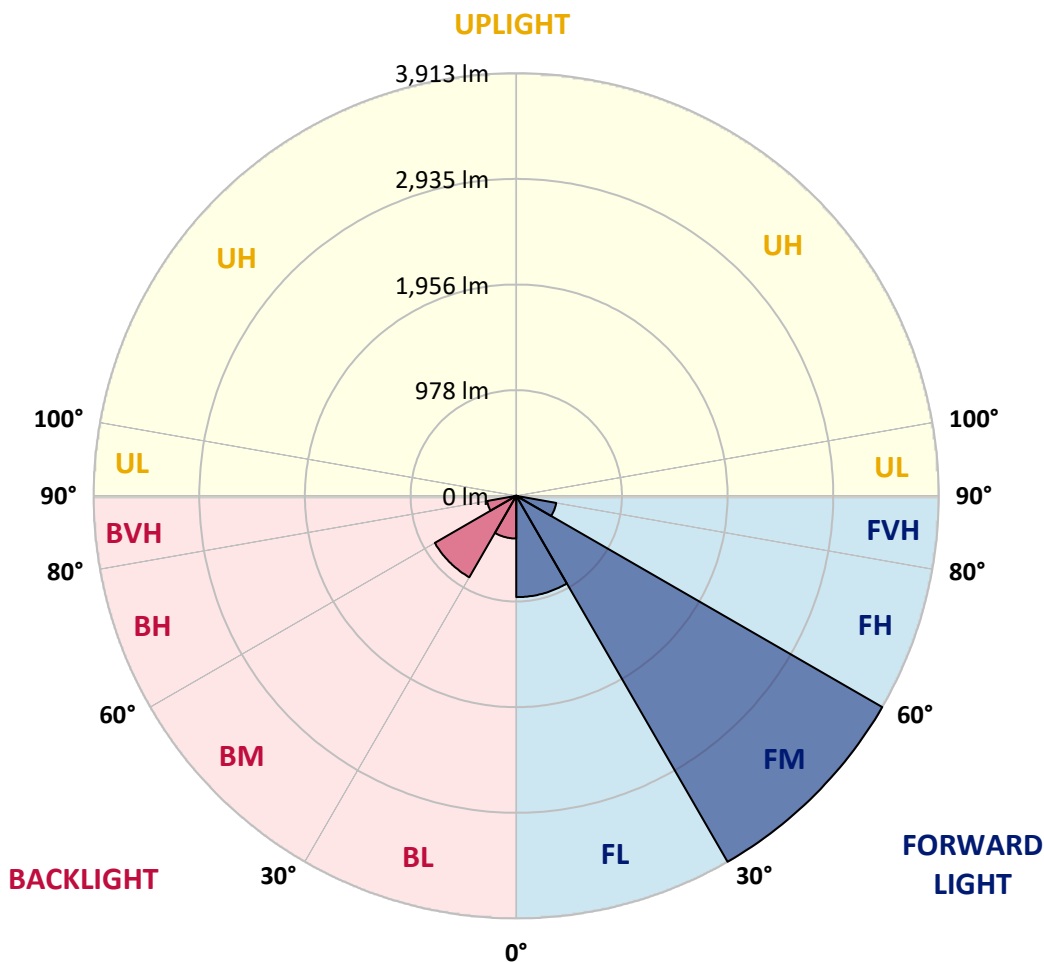


REPORT NUMBER: P651747
 CATALOG NUMBER: GALN-SA2A-840-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.1	13.8			
FM (30°-60°)	3912.7	57.6			
FH (60°-80°)	375.1	5.5			G0/660
FVH (80°-90°)	13.1	0.2			G1/100
BL (0°-30°)	395.8	5.8	B1/500		
BM (30°-60°)	870.8	12.8	B1/1000		
BH (60°-80°)	274.3	4.0	B1/500		G1/500
BVH (80°-90°)	16.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P651747

CATALOG NUMBER: GALN-SA2A-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0
2.5°	1216.8	1209.3	1186.6	1179.0	1152.1	1103.3	1086.5	1036.9	1015.8	996.5	973.8
5°	1538.9	1503.6	1501.1	1458.2	1396.0	1359.8	1252.2	1179.8	1113.4	1079.8	1017.5
7.5°	1744.1	1745.0	1745.0	1709.7	1660.0	1568.4	1471.7	1341.3	1241.2	1191.6	1085.6
10°	1939.3	1922.4	1913.2	1909.8	1876.2	1787.0	1683.6	1522.1	1385.0	1327.0	1136.9
12.5°	2077.2	2062.9	2083.9	2073.0	2048.6	1990.6	1893.0	1708.8	1537.3	1459.1	1219.4
15°	2142.8	2152.9	2169.7	2200.0	2189.0	2167.2	2059.5	1900.6	1701.3	1613.0	1292.5
17.5°	2243.7	2216.0	2236.1	2274.0	2304.3	2294.2	2232.8	2039.3	1863.6	1755.1	1390.9
20°	2314.3	2298.4	2308.5	2352.2	2374.9	2432.1	2400.1	2221.0	2019.2	1904.8	1507.0
22.5°	2516.2	2492.6	2459.8	2466.6	2475.0	2515.3	2522.9	2420.3	2200.0	2078.9	1617.2
25°	2765.0	2743.2	2704.5	2665.0	2640.6	2633.0	2659.1	2576.7	2373.2	2247.9	1735.7
27.5°	3039.2	3002.2	2977.8	2896.2	2830.6	2820.5	2807.9	2763.4	2578.3	2443.0	1869.5
30°	3305.8	3276.4	3243.6	3113.2	3045.1	3034.2	2971.9	2984.5	2801.2	2650.7	2020.8
32.5°	3507.6	3510.2	3435.3	3336.9	3273.0	3215.0	3192.3	3228.4	3087.1	2966.0	2189.9
35°	3670.8	3678.4	3606.9	3517.7	3448.8	3489.1	3479.0	3495.9	3428.6	3280.6	2386.7
37.5°	3829.7	3791.9	3715.4	3672.5	3636.3	3702.8	3788.5	3802.8	3815.4	3641.4	2615.3
40°	3855.8	3859.2	3814.6	3844.9	3799.5	3899.5	4098.9	4080.4	4131.7	3979.4	2863.4
42.5°	3818.8	3826.4	3844.0	3886.9	3996.3	4116.5	4412.5	4336.8	4399.0	4263.6	3104.8
45°	3758.3	3727.1	3749.0	3912.2	4101.4	4368.7	4699.3	4640.4	4620.2	4506.7	3392.4
47.5°	3469.0	3500.9	3569.0	3770.0	4054.3	4412.5	4902.8	4889.3	4949.9	4870.0	3654.0
50°	3067.8	3055.2	3186.4	3412.6	3779.3	4326.7	4891.8	5013.8	5144.1	5033.1	3770.9
52.5°	2297.5	2364.8	2477.5	2758.3	3281.4	3859.2	4653.0	4856.5	4962.5	4938.9	3676.7
55°	1452.3	1472.5	1540.6	1874.5	2345.5	3097.2	3988.7	4460.4	4649.6	4737.9	3590.1
57.5°	705.6	667.8	751.0	1019.2	1354.8	2083.1	3076.2	3885.3	4296.4	4456.2	3401.7
60°	368.4	382.7	415.5	511.3	700.6	1081.4	1917.4	2589.3	3217.5	3463.1	2578.3
62.5°	305.3	310.3	332.2	380.1	465.9	622.3	978.8	1262.3	1640.7	1861.9	1466.6
65°	259.0	261.6	285.1	317.1	371.7	438.2	503.8	527.3	638.3	655.1	521.4
67.5°	216.1	218.7	243.9	274.2	309.5	327.1	344.0	342.3	354.9	349.9	349.0
70°	166.5	169.0	195.1	227.1	244.7	234.6	286.8	298.6	303.6	307.8	314.5
72.5°	120.3	125.3	145.5	168.2	158.9	182.5	236.3	254.0	260.7	263.2	271.6
75°	87.5	89.1	94.2	87.5	100.9	127.0	166.5	188.4	196.8	199.3	211.9
77.5°	38.7	39.5	40.4	50.5	64.8	79.1	99.2	116.9	128.7	132.0	135.4
80°	20.2	21.0	26.1	34.5	46.3	58.0	72.3	82.4	90.0	90.8	94.2
82.5°	12.6	13.5	18.5	24.4	32.8	42.9	53.0	61.4	67.3	68.1	69.0
85°	5.9	7.6	10.9	15.1	21.9	27.8	28.6	24.4	26.1	26.9	25.2
87.5°	1.7	2.5	3.4	2.5	3.4	3.4	4.2	5.0	5.0	5.0	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651747
 CATALOG NUMBER: GALN-SA2A-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0	946.0
2.5°	961.2	953.6	924.2	913.2	884.6	889.7	874.6	873.7	870.4	869.5	868.7
5°	984.7	961.2	925.9	898.9	883.0	881.3	870.4	870.4	873.7	876.2	870.4
7.5°	1023.4	996.5	936.8	911.6	897.3	894.7	887.2	881.3	888.9	886.3	879.6
10°	1068.0	1020.9	957.8	935.9	912.4	906.5	906.5	909.0	896.4	900.6	893.9
12.5°	1117.6	1054.5	984.7	959.5	931.7	928.4	926.7	908.2	914.9	911.6	894.7
15°	1180.7	1093.2	1019.2	976.3	952.8	937.6	915.8	912.4	908.2	899.8	892.2
17.5°	1248.8	1135.3	1035.2	981.4	946.0	935.1	918.3	900.6	888.0	889.7	883.8
20°	1306.8	1174.0	1041.1	986.4	941.0	920.0	893.9	883.0	869.5	868.7	867.8
22.5°	1375.8	1226.1	1049.5	973.0	925.9	904.0	886.3	867.0	857.7	846.0	851.8
25°	1458.2	1246.3	1051.2	965.4	914.9	876.2	867.0	846.0	842.7	825.9	829.2
27.5°	1517.9	1257.2	1037.7	941.8	889.7	860.3	843.5	828.4	822.5	809.9	806.5
30°	1597.8	1274.0	1009.1	912.4	864.5	831.7	821.7	818.3	801.5	788.0	786.3
32.5°	1688.6	1285.0	990.6	882.1	838.5	813.2	818.3	802.3	781.3	769.5	766.2
35°	1761.0	1289.2	944.4	847.6	820.8	804.8	798.9	795.6	765.3	754.4	746.0
37.5°	1871.1	1279.9	905.7	823.3	801.5	795.6	790.5	767.8	733.4	717.4	705.6
40°	1999.8	1277.4	856.1	788.9	783.0	789.7	774.6	739.2	691.3	673.6	665.2
42.5°	2123.4	1295.1	825.0	770.4	762.8	765.3	744.3	691.3	667.8	657.7	644.2
45°	2330.3	1332.1	773.7	741.8	738.4	736.7	711.5	656.0	642.5	629.9	627.4
47.5°	2517.0	1307.7	740.9	712.3	715.7	706.4	652.6	635.0	619.8	607.2	603.0
50°	2528.0	1249.6	694.7	689.6	690.5	674.5	623.2	611.4	592.1	583.7	577.8
52.5°	2470.8	1154.6	651.8	653.5	656.0	629.9	587.0	578.6	562.6	550.9	547.5
55°	2310.1	1006.6	609.7	616.5	623.2	573.6	560.1	539.1	526.5	509.6	510.5
57.5°	2035.1	810.7	550.9	561.8	576.1	521.4	511.3	485.3	466.8	453.3	451.6
60°	1364.0	576.9	462.6	466.8	498.7	476.8	476.0	449.9	424.7	412.9	406.2
62.5°	804.8	440.7	399.5	395.3	394.4	407.0	428.1	418.8	386.0	363.3	370.0
65°	421.3	381.0	371.7	357.4	349.0	345.7	361.6	365.8	344.0	319.6	317.9
67.5°	354.1	354.1	346.5	341.4	329.7	315.4	305.3	291.8	288.5	281.7	273.3
70°	322.1	330.5	328.0	316.2	306.1	290.1	264.1	242.2	221.2	213.6	218.7
72.5°	280.9	289.3	289.3	283.4	270.0	245.6	220.3	195.1	177.5	164.0	162.3
75°	216.1	220.3	230.4	223.7	206.0	190.9	164.8	138.8	121.9	109.3	106.8
77.5°	137.9	144.7	144.7	143.8	131.2	116.9	100.1	81.6	69.0	59.7	57.2
80°	91.7	95.9	99.2	95.9	87.5	76.5	63.9	51.3	42.0	34.5	32.8
82.5°	67.3	72.3	74.8	71.5	63.1	54.7	45.4	36.2	26.9	21.0	19.3
85°	26.1	26.9	30.3	36.2	35.3	34.5	27.8	20.2	15.1	10.9	10.1
87.5°	6.7	5.9	6.7	6.7	5.9	5.0	5.0	5.0	5.0	2.5	3.4
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)