

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: P647757

Luminaire Tested: **GALN-SA2A-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5371.4 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

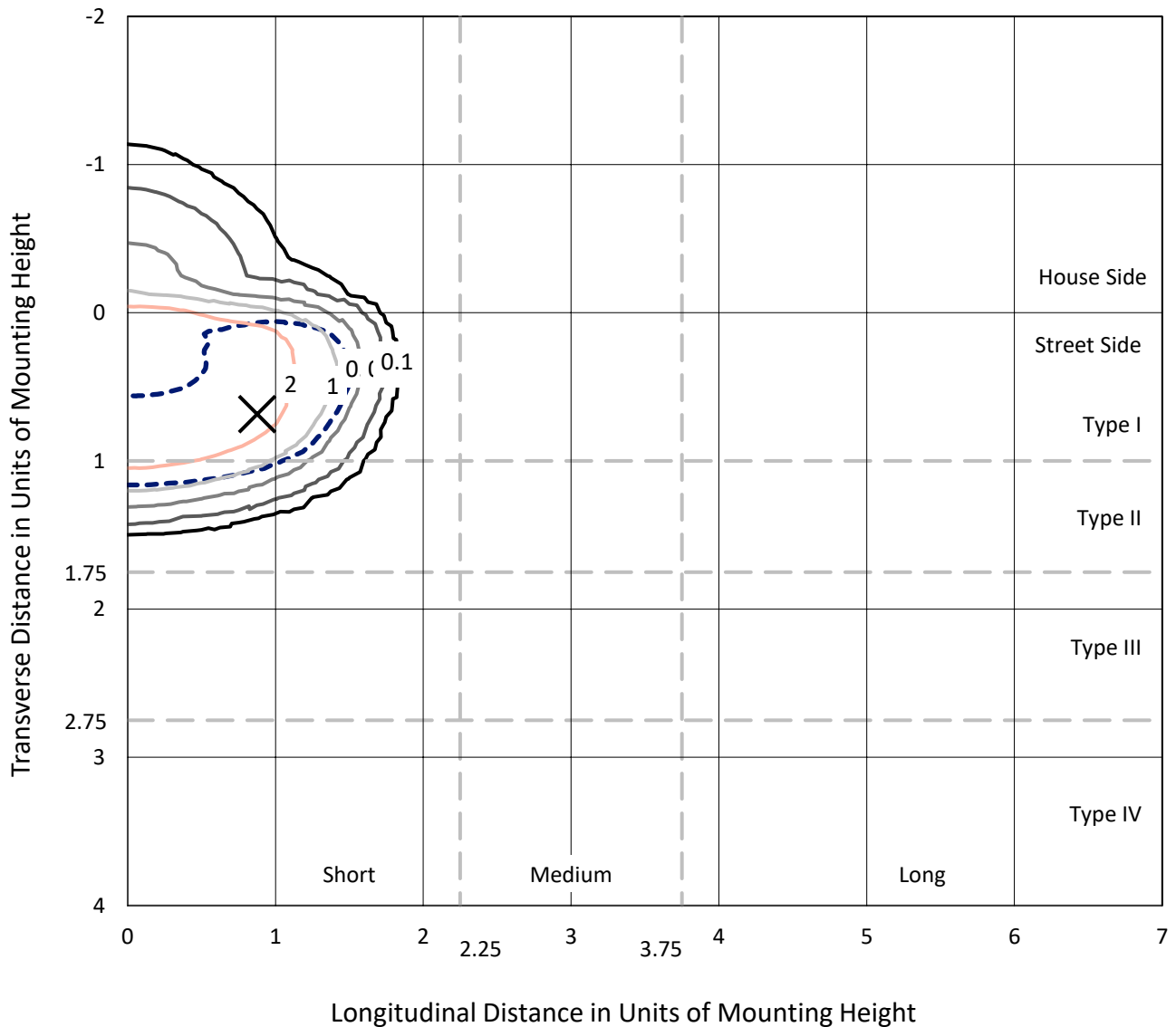
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647757
 CATALOG NUMBER: GALN-SA2A-835-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

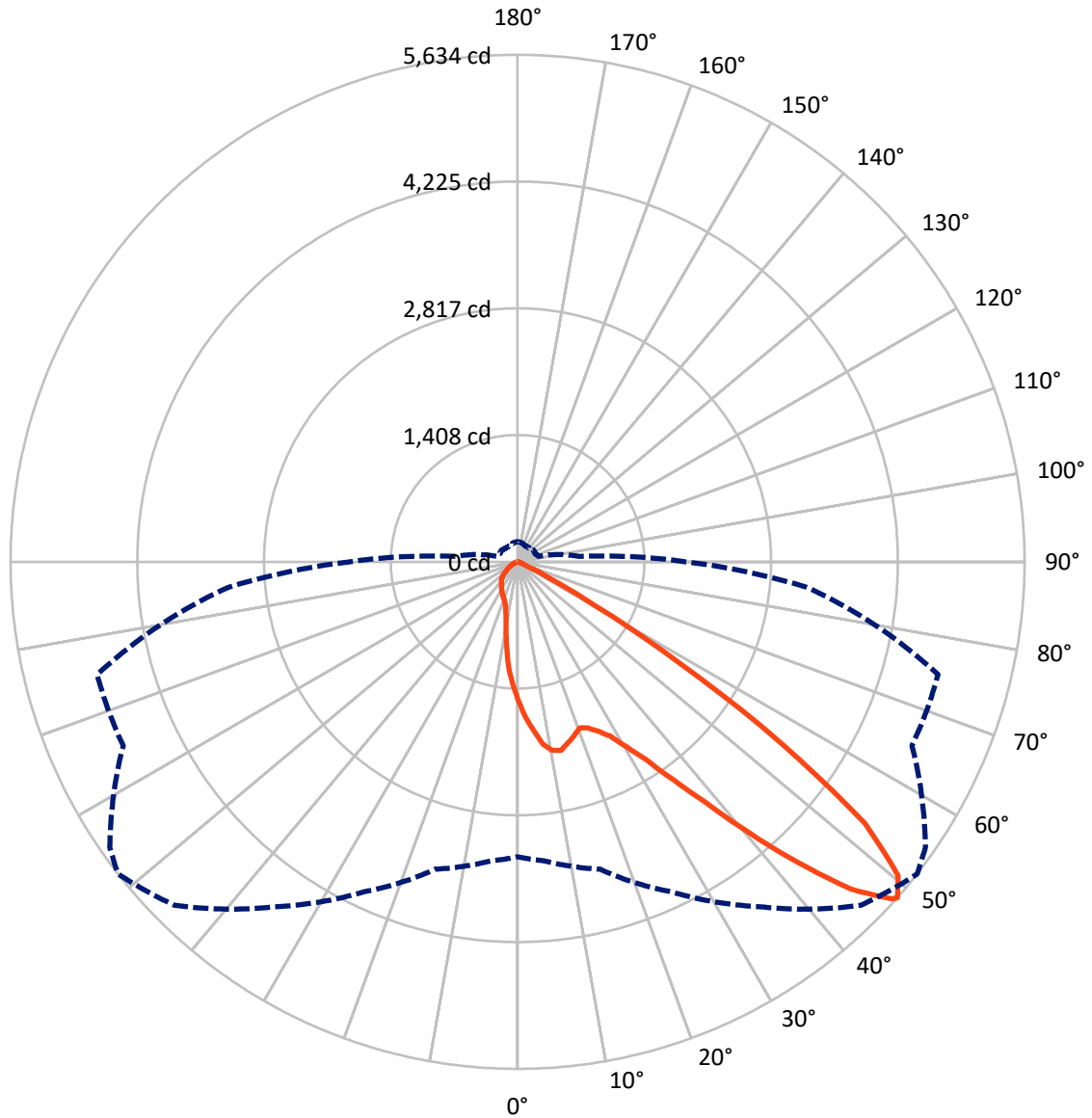
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

REPORT NUMBER: P647757
CATALOG NUMBER: GALN-SA2A-835-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P647757
 CATALOG NUMBER: GALN-SA2A-835-U-AFL-GRSBK

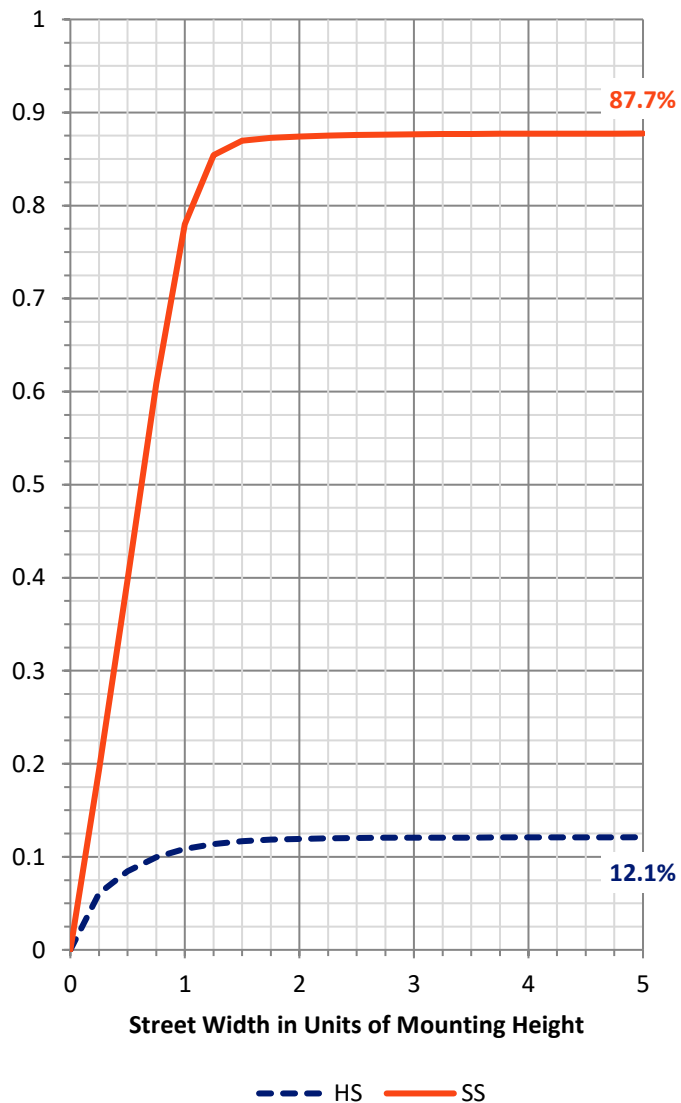
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	654.0	0.0	654.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4717.4	0.0	4717.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	5371.4	0.0	5371.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	2.6
10°-20°	371.0	6.9
20°-30°	633.5	11.8
30°-40°	1166.6	21.7
40°-50°	1811.7	33.7
50°-60°	1090.4	20.3
60°-70°	126.1	2.3
70°-80°	24.4	0.5
80°-90°	5.6	0.1
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°	5371.4	100.0
0°-180°	5371.4	100.0

Coefficient of Utilization

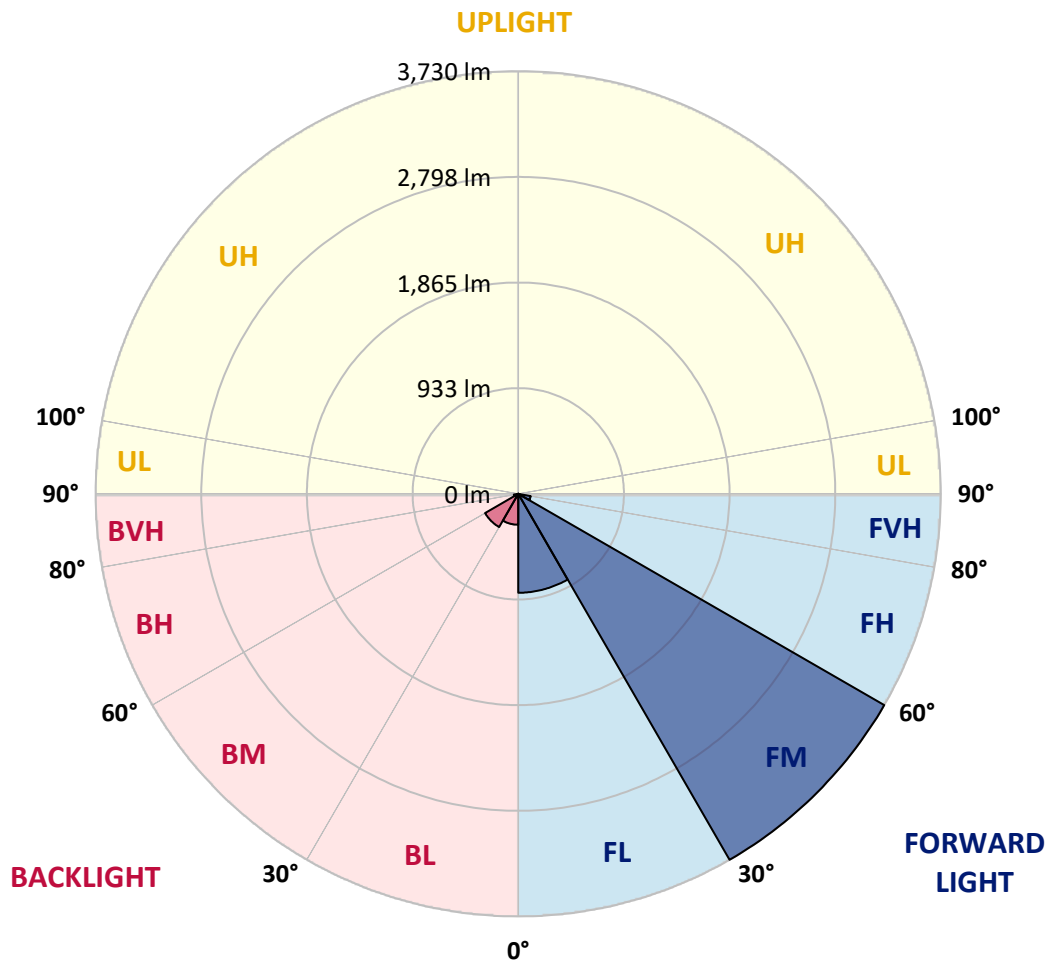


REPORT NUMBER: P647757
 CATALOG NUMBER: GALN-SA2A-835-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.3	16.3			
FM (30°-60°)	3730.3	69.4			
FH (60°-80°)	111.0	2.1			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	273.2	5.1	B1/500		
BM (30°-60°)	338.4	6.3	B1/1000		
BH (60°-80°)	39.5	0.7	B0/110		G0/110
BVH (80°-90°)	3.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





REPORT NUMBER: P647757

CATALOG NUMBER: GALN-SA2A-835-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2
2.5°	1880.1	1837.0	1840.9	1812.7	1796.3	1769.7	1733.6	1726.6	1687.4	1634.2	1580.2
5°	2049.2	2039.0	2052.3	2011.6	2013.2	1969.3	1884.8	1886.3	1796.3	1709.4	1625.6
7.5°	2060.2	2036.7	2050.0	2086.0	2107.1	2099.3	2051.5	2010.0	1924.7	1797.1	1674.9
10°	1844.8	1889.5	1903.6	1963.1	2047.6	2136.9	2131.4	2133.8	2062.5	1895.7	1717.2
12.5°	1715.6	1685.9	1733.6	1769.7	1897.3	2070.3	2149.4	2166.6	2172.1	1991.2	1759.5
15°	1656.9	1656.9	1664.7	1674.9	1767.3	1927.0	2088.3	2138.5	2256.7	2116.5	1826.0
17.5°	1693.7	1692.1	1703.1	1682.0	1716.4	1839.3	2032.0	2089.1	2351.4	2239.5	1878.5
20°	1805.7	1811.2	1804.1	1743.0	1745.4	1837.8	1969.3	2059.4	2415.6	2345.9	1948.2
22.5°	1961.5	1964.6	1924.7	1858.1	1838.6	1884.0	2005.3	2074.2	2467.3	2473.6	1969.3
25°	2141.6	2129.1	2121.2	2027.3	1967.8	2006.9	2086.8	2126.7	2499.4	2583.2	2029.6
27.5°	2391.4	2366.3	2318.5	2234.8	2190.9	2135.3	2192.5	2258.3	2591.0	2736.7	2095.4
30°	2760.2	2738.2	2645.1	2537.0	2421.9	2367.1	2385.1	2421.1	2756.2	2914.4	2182.3
32.5°	3315.3	3269.1	3134.4	2928.5	2771.9	2620.8	2616.1	2654.4	2904.2	3160.3	2285.7
35°	3926.8	3912.7	3714.6	3502.4	3199.4	2966.1	2970.0	2990.4	3187.7	3482.9	2421.1
37.5°	4333.3	4410.8	4284.7	4056.8	3802.3	3468.8	3384.2	3391.3	3576.8	3865.0	2665.4
40°	4647.3	4581.5	4596.4	4543.1	4369.3	4142.1	3955.0	3918.2	4027.0	4287.8	2908.1
42.5°	4510.2	4513.4	4605.0	4731.0	4774.1	4757.7	4566.6	4496.9	4412.4	4634.0	3139.1
45°	4123.4	4204.0	4323.1	4656.7	4949.5	5224.3	5186.7	5070.9	4678.6	4908.0	3272.2
47.5°	3506.4	3503.2	3698.2	4132.0	4782.7	5426.3	5597.0	5515.6	4867.3	4877.5	3244.8
48°	3278.5	3334.9	3536.1	4046.6	4677.0	5396.6	5633.8	5531.3	4835.2	4836.7	3221.3
50°	2423.5	2413.3	2663.8	3290.2	4177.4	5070.9	5478.8	5558.7	4834.4	4630.8	3056.9
52.5°	1280.2	1324.1	1506.6	2068.8	2953.6	4150.0	4832.8	4957.3	4663.7	4294.1	2820.4
55°	544.2	491.7	631.9	934.1	1661.6	2772.7	3545.5	3822.7	3943.3	3800.0	2467.3
57.5°	194.2	212.2	244.3	351.6	698.4	1517.5	2114.2	2329.5	2732.0	2788.3	1681.2
60°	124.5	126.8	137.0	161.3	262.3	584.9	1003.0	1174.5	1356.9	1400.8	784.6
62.5°	96.3	97.1	101.8	105.7	124.5	227.1	376.6	446.3	463.5	398.5	205.9
65°	80.6	81.4	83.0	83.0	88.5	106.5	131.5	144.9	140.9	139.4	116.7
67.5°	61.9	63.4	66.6	66.6	69.7	65.0	72.8	77.5	87.7	106.5	99.4
70°	48.5	49.3	51.7	53.2	53.2	47.0	52.5	57.2	64.2	79.1	78.3
72.5°	37.6	39.2	40.7	40.7	38.4	32.1	37.6	41.5	46.2	54.8	53.2
75°	29.0	29.0	29.8	24.3	18.8	16.4	22.7	27.4	34.5	36.0	29.8
77.5°	7.8	8.6	7.8	7.0	7.8	11.7	14.9	17.2	21.9	21.9	19.6
80°	0.0	0.8	2.3	4.7	7.8	11.0	13.3	14.9	17.2	18.8	18.0
82.5°	0.0	0.8	2.3	4.7	7.0	8.6	11.7	12.5	14.1	16.4	16.4
85°	0.0	0.8	1.6	3.1	4.7	5.5	5.5	4.7	4.7	3.9	3.1
87.5°	0.0	0.0	0.8	1.6	1.6	2.3	2.3	2.3	2.3	2.3	2.3
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: P647757

CATALOG NUMBER: GALN-SA2A-835-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2	1551.2
2.5°	1559.0	1534.8	1498.0	1440.0	1384.3	1348.3	1313.9	1275.5	1254.4	1252.8	1241.1
5°	1577.8	1523.0	1435.3	1335.8	1229.3	1137.7	1045.3	985.0	931.0	901.2	895.8
7.5°	1588.0	1516.7	1374.9	1208.2	1026.5	877.0	773.6	697.7	667.9	646.0	645.2
10°	1609.1	1505.8	1284.9	1039.0	814.3	663.2	591.9	557.5	541.1	534.8	525.4
12.5°	1624.8	1485.4	1192.5	865.2	643.6	549.7	518.3	510.5	511.3	514.4	510.5
15°	1646.7	1467.4	1068.0	710.2	540.3	494.9	494.9	496.4	507.4	509.0	508.2
17.5°	1645.2	1432.1	939.6	584.9	477.6	471.4	473.7	488.6	495.6	498.0	492.5
20°	1664.0	1399.2	807.3	499.6	442.4	451.8	467.5	471.4	480.0	481.5	475.3
22.5°	1658.5	1317.0	684.3	432.2	415.8	433.8	449.4	454.1	451.8	447.1	446.3
25°	1648.3	1246.5	571.6	387.6	396.2	415.8	430.6	422.0	417.3	418.1	418.9
27.5°	1630.3	1157.3	478.4	356.3	369.6	398.5	397.8	394.6	399.3	395.4	399.3
30°	1627.2	1068.0	401.7	328.1	350.0	371.1	372.7	378.2	383.7	376.6	383.7
32.5°	1631.9	970.1	346.9	310.9	338.3	339.0	356.3	361.7	357.8	342.2	343.7
35°	1667.9	895.0	306.9	301.5	319.5	320.2	336.7	329.6	312.4	303.0	308.5
37.5°	1743.8	832.3	288.1	292.8	294.4	304.6	305.4	291.3	292.8	292.1	295.2
40°	1840.9	784.6	274.8	285.0	283.4	290.5	262.3	270.1	277.2	279.5	281.1
42.5°	1907.5	750.1	266.2	272.5	269.4	256.8	241.2	249.0	254.5	263.1	264.7
45°	1937.2	722.7	256.0	250.6	250.6	227.9	221.6	223.2	235.7	245.1	243.5
47.5°	1888.7	696.1	238.0	221.6	227.1	208.3	201.2	201.2	214.5	226.3	223.9
48°	1869.9	685.1	238.8	215.3	219.2	205.1	198.1	196.5	211.4	222.4	222.4
50°	1776.7	644.4	218.5	198.1	190.3	188.7	184.0	185.6	195.0	205.1	205.1
52.5°	1595.0	556.7	184.8	169.9	155.8	165.2	167.6	164.4	169.1	178.5	177.7
55°	1331.1	427.5	148.0	140.9	130.0	140.2	144.9	140.9	136.2	143.3	143.3
57.5°	852.7	230.2	118.2	119.8	108.8	119.0	122.9	113.5	104.9	110.4	109.6
60°	384.5	137.8	97.1	94.7	87.7	99.4	105.7	94.7	83.0	86.9	90.8
62.5°	144.1	97.9	73.6	72.0	70.5	81.4	84.6	76.0	64.2	66.6	67.3
65°	105.7	86.1	58.7	53.2	56.4	64.2	62.6	54.0	46.2	46.2	47.8
67.5°	90.0	75.2	47.8	41.5	41.5	42.3	39.2	34.5	32.1	33.7	35.2
70°	70.5	59.5	37.6	32.1	29.0	25.8	22.7	21.9	19.6	21.9	21.1
72.5°	45.4	39.9	29.0	24.3	21.9	18.0	14.9	14.1	11.7	11.0	11.0
75°	24.3	24.3	22.7	19.6	17.2	14.1	11.7	9.4	6.3	4.7	4.7
77.5°	17.2	18.8	20.4	18.8	15.7	11.7	9.4	6.3	3.1	1.6	1.6
80°	16.4	18.8	20.4	18.0	15.7	11.7	8.6	4.7	2.3	0.8	0.8
82.5°	14.9	17.2	18.8	16.4	14.1	10.2	7.8	4.7	2.3	0.8	0.8
85°	3.1	3.9	4.7	4.7	5.5	7.0	5.5	3.9	1.6	0.8	0.8
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.6	1.6	0.8	0.8	0.8
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)