

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: P647906

Luminaire Tested: **GALN-SA4A-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11090.4 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

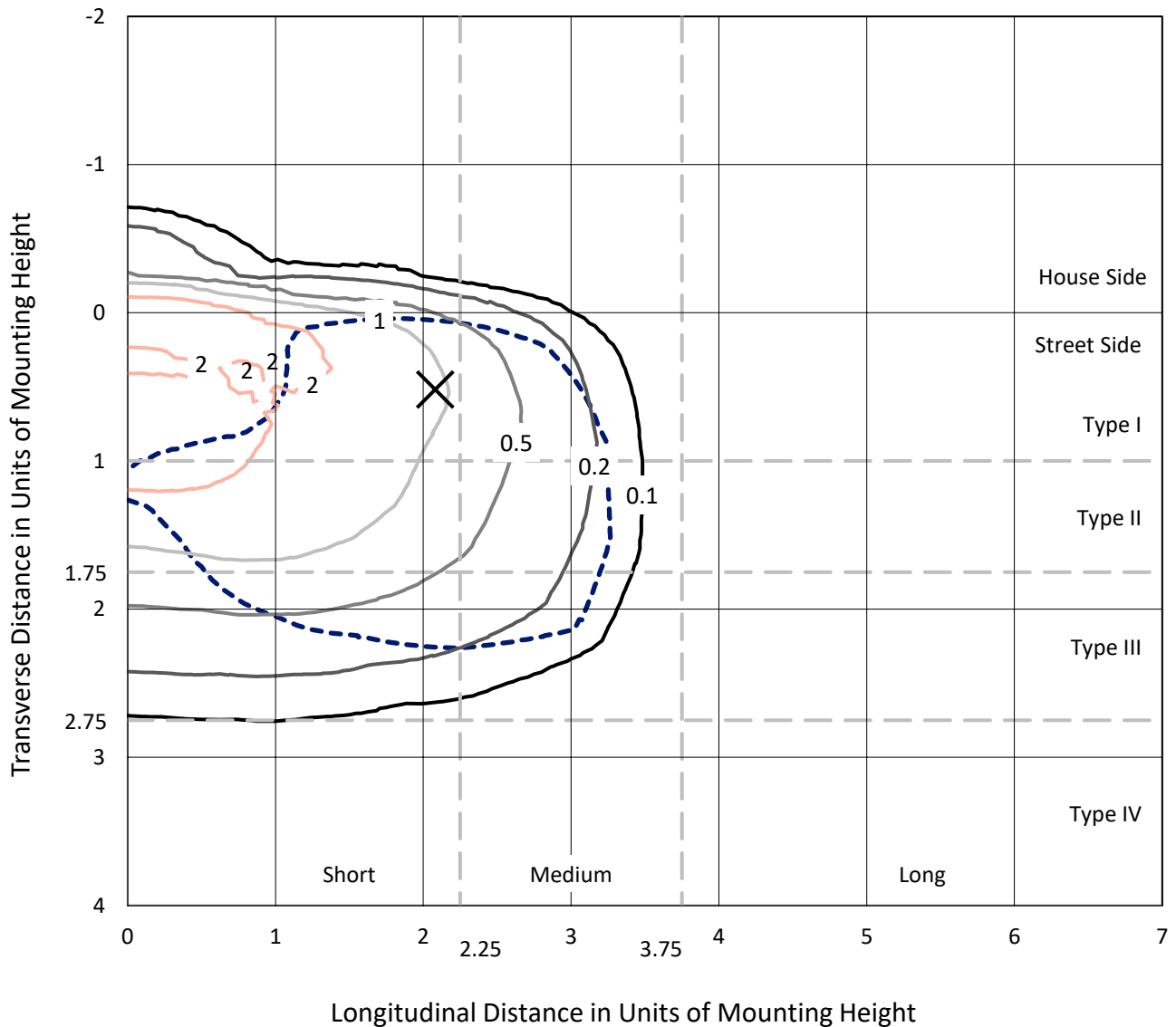
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647906
 CATALOG NUMBER: GALN-SA4A-835-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

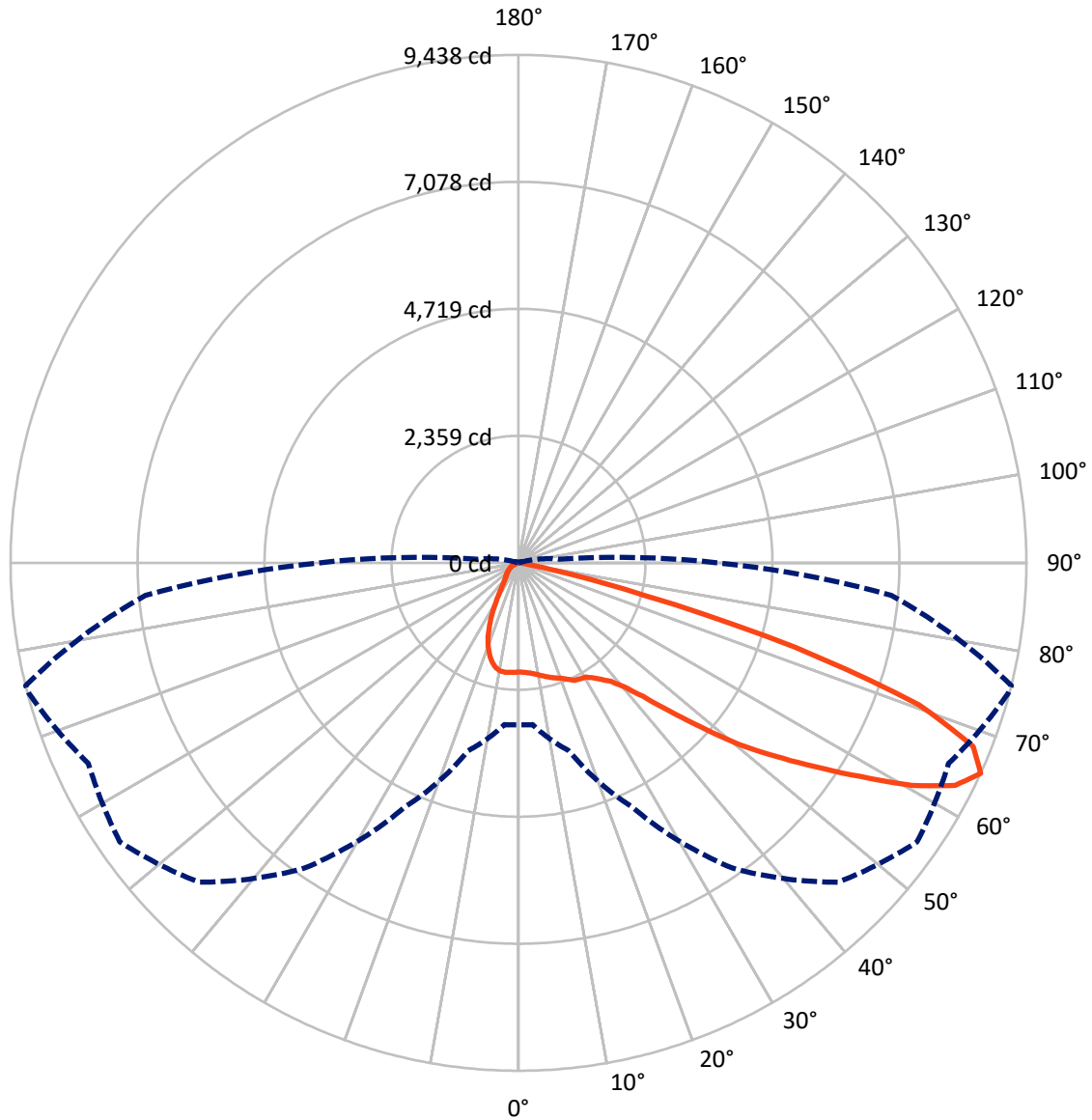
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P647906
CATALOG NUMBER: GALN-SA4A-835-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P647906
 CATALOG NUMBER: GALN-SA4A-835-U-T3R-HSS

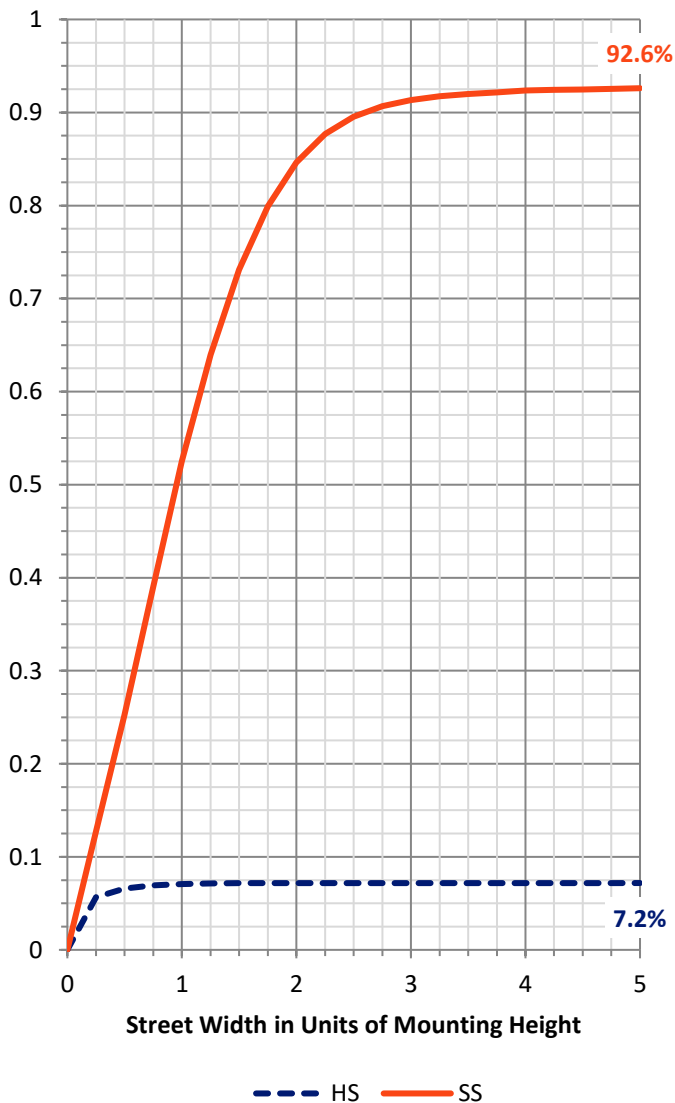
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	800.9	0.0	800.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10289.5	0.0	10289.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	11090.4	0.0	11090.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	1.5
10°-20°	372.1	3.4
20°-30°	599.6	5.4
30°-40°	1042.6	9.4
40°-50°	1722.9	15.5
50°-60°	2661.4	24.0
60°-70°	3250.0	29.3
70°-80°	1233.5	11.1
80°-90°	41.2	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°	11090.4	100.0
0°-180°	11090.4	100.0

Coefficient of Utilization



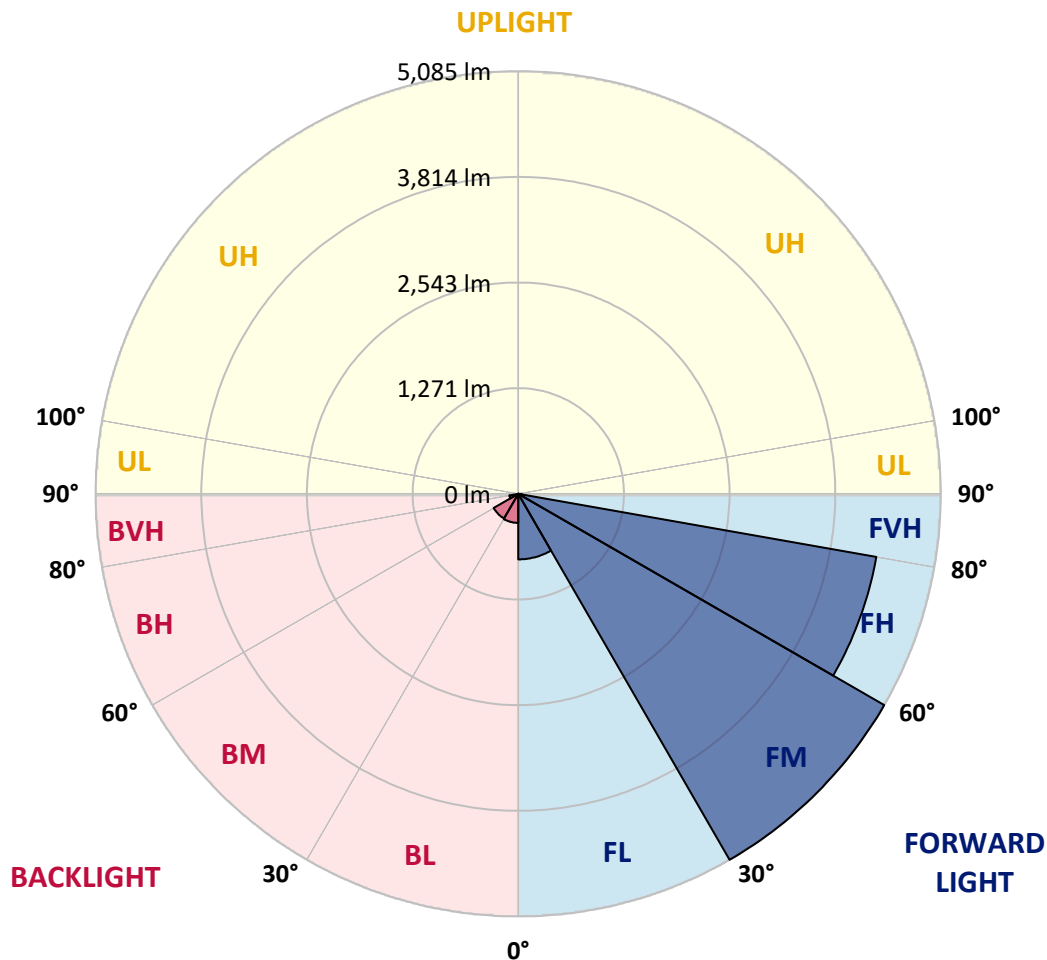
REPORT NUMBER: P647906
 CATALOG NUMBER: GALN-SA4A-835-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	788.9	7.1			
FM (30°-60°)	5085.1	45.9			
FH (60°-80°)	4374.8	39.4			G2/5000
FVH (80°-90°)	40.6	0.4			G1/100
BL (0°-30°)	349.9	3.2	B1/500		
BM (30°-60°)	341.8	3.1	B1/1000		
BH (60°-80°)	108.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
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





REPORT NUMBER: P647906

CATALOG NUMBER: GALN-SA4A-835-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8
2.5°	1938.7	1939.5	1944.2	1955.9	1973.9	1988.8	2001.3	2021.7	2035.8	2037.4	2042.1
5°	1804.8	1795.4	1804.8	1835.4	1862.8	1904.3	1955.2	2006.0	2051.5	2054.6	2076.5
7.5°	1654.5	1662.3	1677.2	1708.5	1760.2	1823.6	1897.2	1988.0	2074.2	2082.0	2125.1
10°	1501.8	1519.0	1543.3	1591.1	1663.1	1745.3	1845.5	1975.5	2110.2	2121.1	2195.6
12.5°	1360.9	1368.7	1398.4	1462.6	1551.9	1667.8	1806.4	1968.5	2150.2	2163.5	2270.8
15°	1252.8	1263.0	1288.8	1346.8	1446.2	1595.0	1774.3	1966.1	2189.3	2208.1	2345.9
17.5°	1232.4	1238.7	1249.7	1288.8	1375.7	1537.0	1745.3	1965.3	2226.9	2249.6	2415.6
20°	1316.2	1310.7	1299.8	1295.9	1343.6	1492.4	1724.2	1971.6	2262.9	2288.8	2489.2
22.5°	1526.1	1533.1	1468.9	1393.0	1377.3	1485.4	1721.0	2001.3	2320.1	2350.6	2571.5
25°	1971.6	1917.6	1817.3	1635.7	1498.7	1528.4	1756.3	2071.8	2386.7	2420.3	2645.8
27.5°	2464.2	2447.7	2291.9	1992.7	1737.5	1619.2	1818.9	2125.8	2408.6	2443.0	2688.1
30°	2948.1	2967.6	2789.1	2458.7	2084.3	1787.6	1877.6	2146.3	2428.2	2464.2	2742.1
32.5°	3396.7	3420.2	3263.6	2936.3	2493.2	2078.9	1978.6	2225.4	2510.4	2547.2	2832.2
35°	3749.9	3753.0	3634.8	3374.0	2939.5	2432.9	2197.2	2364.0	2621.6	2664.6	2927.7
37.5°	4074.0	4069.3	3930.7	3706.0	3311.4	2784.4	2472.0	2523.7	2748.4	2793.0	3065.5
40°	4314.4	4317.5	4272.9	4061.5	3658.3	3109.4	2689.7	2673.2	2961.4	3031.1	3266.0
42.5°	4474.9	4503.9	4525.8	4418.5	4094.4	3509.5	3024.0	2993.5	3331.0	3388.9	3549.4
45°	4604.9	4656.6	4766.2	4760.7	4513.3	4000.4	3482.9	3420.2	3854.8	3916.6	3910.4
47.5°	4699.6	4752.1	4933.8	5043.4	4907.1	4476.5	4059.9	4005.9	4480.4	4547.7	4308.9
50°	4748.2	4810.8	5042.6	5254.8	5214.9	4935.3	4717.7	4720.8	5236.0	5301.0	4770.9
52.5°	4634.7	4716.1	5100.5	5482.6	5560.2	5374.6	5333.9	5437.2	5908.6	5964.2	5188.2
55°	4272.1	4374.7	5021.5	5676.8	5960.3	5892.9	6033.9	6191.3	6643.9	6679.9	5616.5
57.5°	4042.7	4151.5	4788.1	5842.0	6441.1	6544.5	6767.6	6882.7	7402.6	7494.2	6108.3
60°	3849.3	3934.7	4596.3	5877.3	6929.7	7341.6	7558.5	7677.5	8339.1	8398.6	6649.4
62.5°	3527.5	3625.4	4272.1	5631.4	7175.6	7979.7	8429.2	8375.9	9063.4	9104.9	6981.4
65°	3009.9	3018.5	3614.4	5013.6	6921.9	8393.9	9040.7	8817.5	9409.5	9437.7	6955.5
67.5°	2246.5	2329.5	2780.5	3940.9	5846.7	8040.0	9238.8	8829.3	9191.0	9112.7	6403.5
70°	1447.0	1510.4	1884.7	2732.7	4215.8	6709.7	8581.8	8224.0	8066.6	7892.8	5241.5
72.5°	667.9	749.3	1119.7	1561.3	2500.2	4779.5	6966.5	6681.5	5806.0	5376.9	3331.7
75°	291.3	311.6	552.8	823.7	1172.2	2527.6	4593.2	4147.6	2622.3	2395.3	1333.4
77.5°	177.7	191.1	289.7	441.6	460.4	963.1	2474.4	1809.5	810.4	714.9	361.7
80°	120.6	135.5	210.6	231.0	157.4	268.6	928.6	483.1	163.6	156.6	77.5
82.5°	58.7	74.4	155.8	129.2	68.1	86.1	270.1	103.4	47.8	44.6	27.4
85°	8.6	14.9	87.7	84.6	30.5	20.4	47.8	25.8	16.4	15.7	12.5
87.5°	0.0	0.0	29.8	13.3	3.1	3.1	5.5	5.5	6.3	5.5	6.3
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: P647906

CATALOG NUMBER: GALN-SA4A-835-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8
2.5°	2044.4	2048.3	2033.5	2012.3	1989.6	1966.9	1934.8	1905.8	1888.6	1898.8	1873.7
5°	2081.2	2078.1	2038.9	1974.7	1889.4	1786.8	1685.0	1598.1	1569.9	1527.6	1522.9
7.5°	2132.2	2123.5	2040.5	1893.3	1700.7	1508.1	1320.1	1195.6	1124.4	1064.1	1065.7
10°	2203.4	2178.4	2022.5	1750.0	1432.9	1142.4	902.8	738.4	667.1	644.4	626.4
12.5°	2277.0	2228.5	1972.4	1556.6	1115.8	780.7	548.9	448.7	404.8	390.7	389.2
15°	2342.8	2266.1	1884.7	1324.1	811.2	498.8	374.3	341.4	335.9	336.7	335.9
17.5°	2407.8	2295.8	1763.3	1077.4	551.2	357.8	321.8	314.0	316.3	319.5	318.7
20°	2461.8	2302.1	1608.3	822.2	389.9	314.0	302.2	300.7	303.0	305.4	305.4
22.5°	2520.6	2306.8	1424.3	569.2	318.7	292.1	285.8	285.8	288.9	292.1	292.8
25°	2564.4	2281.0	1204.3	408.7	281.1	270.9	267.8	268.6	271.7	273.3	272.5
27.5°	2571.5	2208.1	970.9	313.2	255.3	245.1	241.9	245.1	241.2	243.5	241.9
30°	2577.7	2115.7	734.5	263.9	231.8	216.1	211.4	206.7	203.6	199.7	198.9
32.5°	2597.3	2006.8	536.4	237.2	209.8	192.6	181.7	168.3	158.2	155.0	154.3
35°	2605.9	1876.1	393.8	216.1	190.3	171.5	151.9	133.1	118.2	112.8	116.7
37.5°	2638.8	1749.2	305.4	200.4	173.0	149.6	124.5	101.0	86.9	83.8	85.3
40°	2706.1	1611.4	256.0	187.1	158.2	129.2	98.7	76.0	66.6	63.4	62.6
42.5°	2814.2	1474.4	227.9	174.6	143.3	108.8	77.5	59.5	51.7	49.3	49.3
45°	2945.7	1342.8	208.3	161.3	127.6	87.7	61.1	47.8	43.1	41.5	41.5
47.5°	3118.8	1227.7	191.8	148.0	110.4	69.7	49.3	41.5	38.4	39.2	39.9
50°	3294.2	1142.4	173.8	133.1	90.8	57.2	42.3	36.8	36.0	36.8	36.8
52.5°	3426.5	1092.3	149.6	112.8	71.3	47.8	37.6	34.5	33.7	32.1	32.1
55°	3605.0	1081.3	119.0	91.6	56.4	39.9	33.7	31.3	29.0	27.4	26.6
57.5°	3834.4	1093.9	91.6	71.3	43.8	32.9	29.8	25.8	22.7	19.6	19.6
60°	3976.9	1065.7	71.3	54.8	32.1	26.6	22.7	18.8	14.9	12.5	11.7
62.5°	3931.5	946.6	56.4	40.7	22.7	19.6	14.9	12.5	8.6	6.3	5.5
65°	3697.4	764.2	45.4	28.2	16.4	11.7	7.8	7.8	3.9	0.8	0.0
67.5°	3236.2	566.1	36.0	18.8	9.4	5.5	3.9	2.3	0.0	0.0	0.0
70°	2634.1	408.7	28.2	11.7	5.5	3.9	1.6	0.8	0.0	0.0	0.0
72.5°	1672.5	234.1	21.9	7.0	3.9	1.6	0.0	0.0	0.0	0.0	0.0
75°	646.8	91.6	14.9	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	183.2	43.1	8.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	47.8	18.8	4.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.7	7.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)