

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: P650810

Luminaire Tested: **GALN-SA3C-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13194.4 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

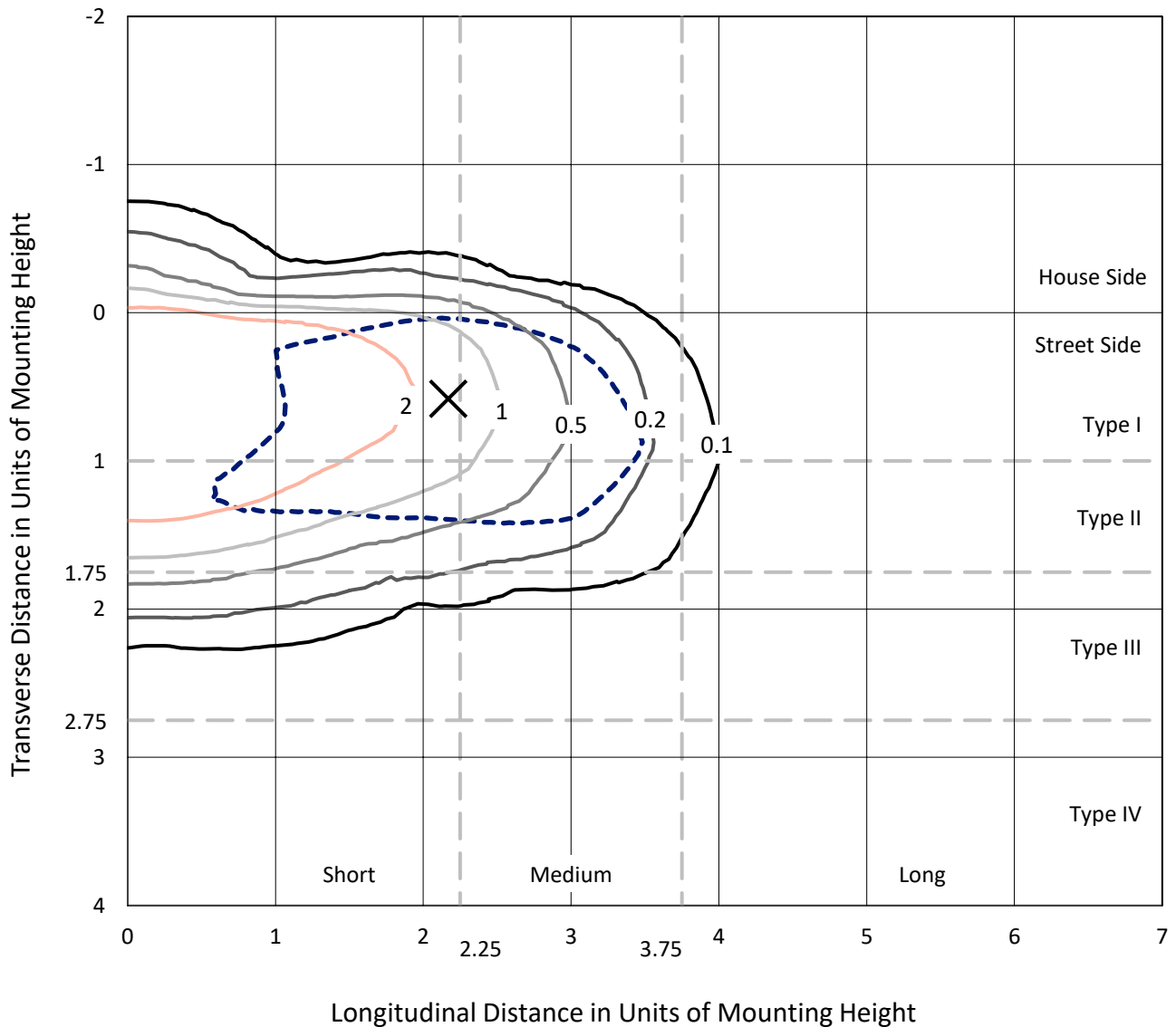
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

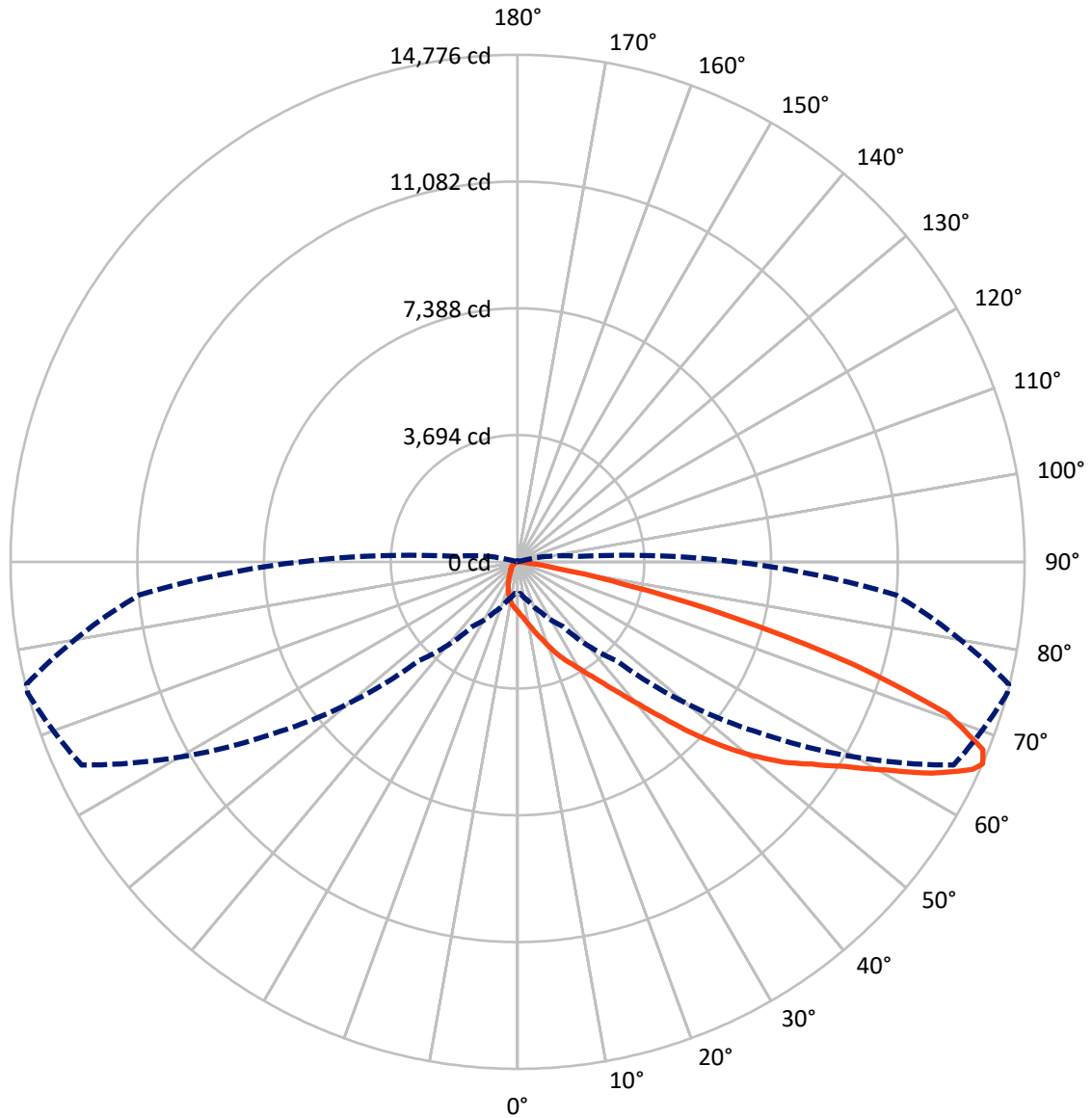
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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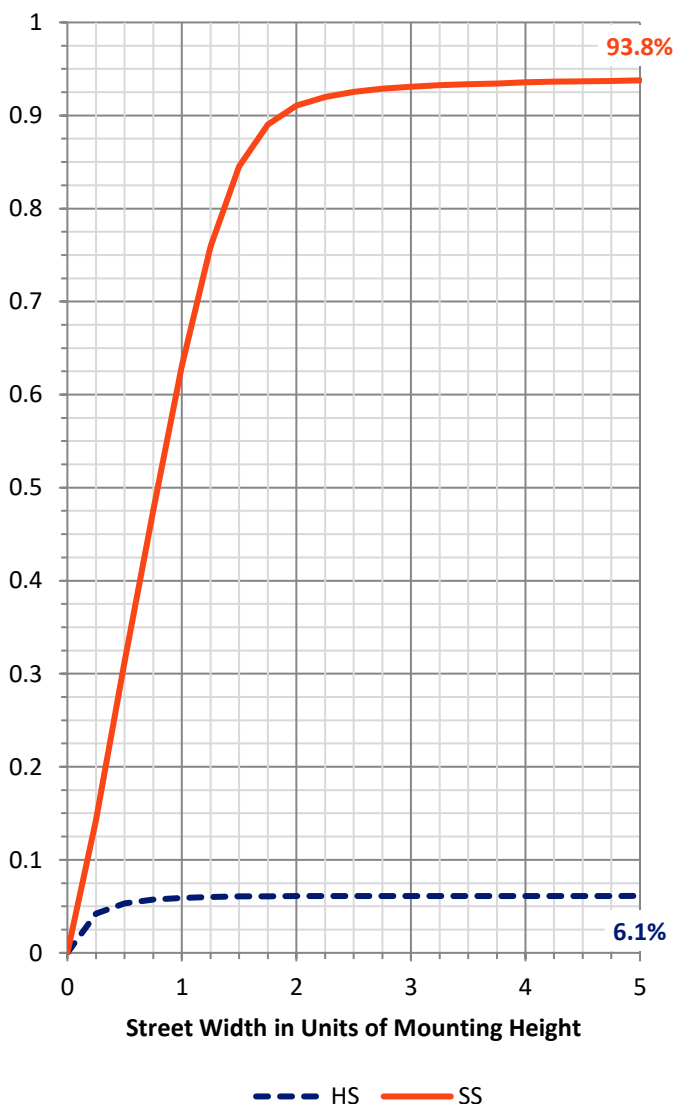
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	814.5	0.0	814.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	12379.9	0.0	12379.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	13194.4	0.0	13194.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	1.1
10°-20°	409.6	3.1
20°-30°	707.3	5.4
30°-40°	1275.8	9.7
40°-50°	2304.8	17.5
50°-60°	3593.1	27.2
60°-70°	3413.3	25.9
70°-80°	1279.2	9.7
80°-90°	72.2	0.5
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°	13194.4	100.0
0°-180°	13194.4	100.0

Coefficient of Utilization

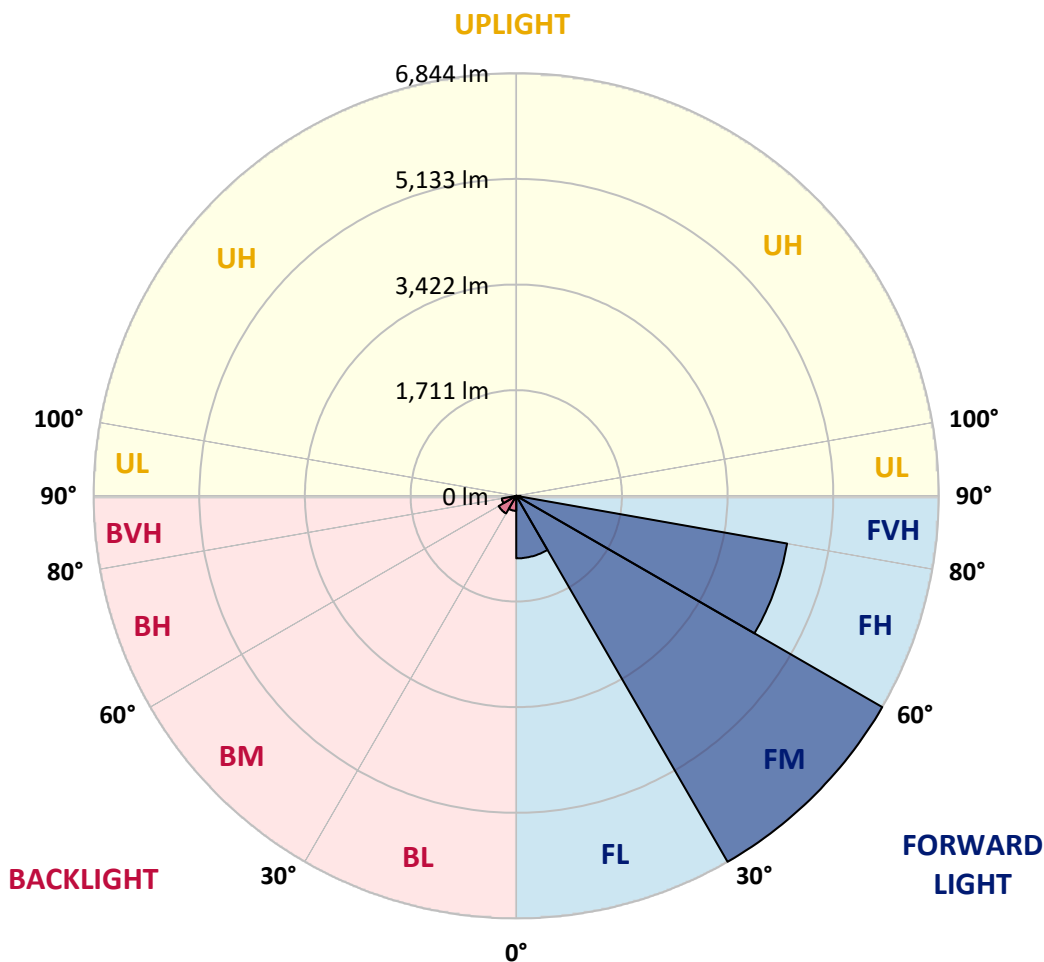


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.8	7.7			
FM (30°-60°)	6844.0	51.9			
FH (60°-80°)	4454.7	33.8			G2/5000
FVH (80°-90°)	68.4	0.5			G1/100
BL (0°-30°)	243.3	1.8	B1/500		
BM (30°-60°)	329.7	2.5	B1/1000		
BH (60°-80°)	237.9	1.8	B1/500		G1/500
BVH (80°-90°)	3.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9
2.5°	1723.9	1702.4	1709.2	1699.5	1677.1	1643.9	1614.6	1572.7	1530.8	1523.9	1477.0
5°	1951.2	1945.4	1937.6	1909.3	1893.7	1843.0	1782.5	1710.3	1623.5	1607.8	1523.0
7.5°	2106.4	2103.4	2107.4	2092.7	2079.0	2033.2	1968.8	1870.3	1735.7	1726.8	1585.4
10°	2157.1	2164.9	2179.5	2202.9	2224.4	2209.8	2161.0	2038.1	1881.0	1855.7	1656.6
12.5°	2127.8	2136.6	2171.7	2234.2	2303.4	2343.4	2323.9	2234.2	2035.1	2014.6	1736.6
15°	2052.7	2063.5	2113.2	2209.8	2333.7	2446.9	2495.7	2431.2	2214.7	2181.5	1833.2
17.5°	1941.4	1957.1	2028.3	2156.2	2325.9	2521.0	2658.6	2637.1	2405.8	2374.6	1938.6
20°	1857.6	1869.3	1929.8	2076.1	2292.7	2562.0	2813.6	2874.2	2642.0	2588.3	2062.5
22.5°	1913.2	1917.1	1937.6	2025.4	2233.2	2572.7	2950.3	3121.0	2892.7	2844.9	2191.2
25°	2185.4	2146.4	2125.9	2106.4	2220.5	2562.9	3074.2	3378.5	3142.5	3091.8	2319.1
27.5°	2614.7	2597.1	2493.6	2355.1	2328.8	2575.6	3156.1	3622.4	3377.6	3323.0	2443.9
30°	3082.0	3051.7	2988.3	2785.4	2581.5	2665.4	3215.6	3859.5	3655.7	3583.4	2558.1
32.5°	3511.3	3530.8	3436.2	3227.3	2991.3	2856.6	3292.7	4118.1	3974.7	3884.9	2690.8
35°	4011.7	4050.8	3905.4	3705.4	3429.3	3202.0	3443.0	4409.8	4379.6	4266.4	2895.6
37.5°	4520.0	4543.5	4454.7	4173.7	3924.9	3641.0	3725.9	4769.8	4878.1	4781.5	3140.5
40°	4947.4	4979.6	4914.2	4664.4	4399.1	4149.3	4136.6	5162.0	5471.3	5371.8	3505.4
42.5°	5274.2	5298.6	5300.6	5124.0	4884.9	4771.7	4660.6	5662.5	6214.7	6099.6	3928.8
45°	5686.9	5722.0	5701.6	5581.5	5403.0	5382.5	5325.0	6267.4	7104.4	6959.1	4478.1
47.5°	6325.0	6348.4	6297.7	6156.2	5974.7	6006.9	5972.8	6945.5	8011.8	7886.9	5046.9
50°	6767.9	6806.9	6879.1	6935.7	6803.9	6684.9	6583.5	7578.6	8873.3	8761.1	5628.4
52.5°	6763.0	6827.4	7055.7	7340.6	7628.4	7592.3	7300.6	8278.1	9695.7	9557.2	6174.7
55°	6307.4	6432.3	6767.9	7273.2	8070.3	8467.4	8334.7	9087.9	10405.9	10312.3	6807.9
57.5°	5366.9	5443.0	5909.4	6615.7	7823.5	8879.1	9532.8	10185.5	11257.7	11213.8	7791.3
60°	3609.8	3644.0	4243.9	5117.1	6660.6	8468.4	10410.8	11513.3	12306.5	12285.0	8939.6
62.5°	2068.4	2083.0	2518.0	3254.7	4739.5	7176.7	10485.0	13151.4	13564.1	13575.8	10268.4
65°	1113.1	1121.0	1472.2	1910.2	2884.0	5115.2	9428.4	14048.9	14580.7	14603.1	11091.9
66°	961.0	923.9	1171.7	1628.3	2294.7	4071.3	8760.1	14016.8	14775.8	14751.4	11062.6
67.5°	730.7	763.9	935.6	1251.7	1700.5	2894.6	7232.3	13393.3	14627.5	14551.4	10612.8
70°	522.9	536.6	666.3	892.7	1158.1	1588.3	4621.5	11124.0	13294.8	13192.3	9246.0
72.5°	337.6	352.2	472.2	645.9	837.0	867.3	2587.3	8037.2	10249.9	10235.2	6963.0
75°	240.9	254.7	312.2	462.5	629.2	536.6	1245.9	5416.6	6516.2	6472.3	4307.3
77.5°	174.7	181.5	208.8	302.4	449.8	384.4	577.6	2892.7	3243.9	3397.1	1903.4
80°	100.5	106.3	145.4	184.4	304.4	262.5	276.1	1161.0	1197.1	1139.6	595.1
82.5°	49.8	56.6	86.8	125.8	190.2	176.6	126.8	349.3	368.8	359.0	150.3
85°	11.7	14.6	48.8	82.9	92.7	79.1	61.5	102.4	126.8	123.9	57.5
87.5°	1.0	1.9	17.6	14.6	15.6	26.3	21.4	26.3	41.0	38.0	20.5
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°	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9	1442.9
2.5°	1455.6	1437.1	1383.4	1330.7	1286.8	1241.0	1199.0	1174.6	1164.9	1154.2	1159.1
5°	1476.1	1431.2	1323.0	1229.3	1137.5	1059.5	997.1	957.1	937.5	934.6	929.7
7.5°	1503.5	1426.3	1258.6	1112.2	992.2	905.3	834.2	776.6	759.0	743.4	730.7
10°	1536.6	1417.6	1178.6	989.3	861.4	752.2	658.5	590.2	555.1	545.4	552.2
12.5°	1571.7	1401.0	1094.6	876.1	728.8	589.3	502.4	468.3	458.5	454.6	455.7
15°	1606.8	1380.5	1006.8	766.8	580.5	470.3	430.3	421.5	417.6	415.6	413.7
17.5°	1639.0	1347.4	908.3	660.5	470.3	401.9	387.3	379.5	371.7	368.8	363.9
20°	1677.1	1309.3	819.6	541.4	398.0	363.9	346.3	331.7	320.0	312.2	311.3
22.5°	1713.2	1260.5	726.9	448.8	362.9	326.8	298.6	282.9	269.3	259.5	262.5
25°	1732.7	1200.9	643.9	391.2	330.8	289.7	258.5	239.0	224.4	219.5	218.6
27.5°	1732.7	1127.8	563.0	358.0	301.5	256.6	224.4	205.9	196.1	189.3	190.2
30°	1719.0	1046.9	487.8	332.7	276.1	227.3	197.0	180.5	172.7	167.8	166.9
32.5°	1708.3	969.8	423.4	308.3	249.8	201.9	175.6	162.9	155.2	150.3	150.3
35°	1724.9	903.4	373.7	283.9	225.4	182.4	159.0	147.3	139.5	135.7	134.6
37.5°	1768.8	842.9	335.6	257.6	202.9	165.8	147.3	133.6	125.8	120.9	119.0
40°	1877.1	808.8	307.3	233.2	181.5	152.2	133.6	120.9	111.2	106.3	105.4
42.5°	2050.8	809.8	280.0	210.8	164.9	140.5	121.9	107.3	96.5	91.7	90.7
45°	2312.2	846.8	258.5	189.3	150.3	127.8	109.2	93.7	83.9	79.1	79.1
47.5°	2625.4	919.0	240.0	170.7	136.6	116.1	96.5	81.0	71.2	67.3	67.3
50°	2964.9	1012.7	221.4	151.2	124.9	103.4	82.9	70.2	62.4	59.5	59.5
52.5°	3311.3	1125.8	202.9	135.7	112.2	89.7	71.2	62.4	55.6	53.7	52.6
55°	3765.9	1270.2	183.4	119.0	98.6	77.0	63.4	54.7	46.8	43.9	42.9
57.5°	4465.5	1487.8	162.0	104.4	81.0	64.4	54.7	45.8	37.1	32.2	31.2
60°	5309.3	1753.2	139.5	91.7	65.3	52.6	43.9	35.2	27.3	21.4	20.5
62.5°	6099.6	1921.9	118.1	77.0	51.7	40.0	31.2	26.3	19.5	13.6	12.7
65°	6448.9	1865.4	97.6	62.4	41.0	28.3	20.5	18.5	11.7	5.9	4.9
66°	6332.7	1781.5	89.7	56.6	37.1	24.4	17.6	15.6	8.7	2.9	2.9
67.5°	5990.3	1583.4	78.0	48.8	32.2	19.5	13.6	11.7	4.9	1.0	0.0
70°	5132.7	1281.0	61.5	36.1	23.4	13.6	7.8	5.9	2.9	0.0	0.0
72.5°	3942.5	954.2	48.8	27.3	16.6	7.8	3.9	1.9	2.9	0.0	0.0
75°	2415.6	545.4	38.0	20.5	10.8	4.9	2.9	0.0	2.9	1.0	0.0
77.5°	1072.2	244.9	25.4	13.6	7.8	3.9	1.9	0.0	1.9	1.0	0.0
80°	271.2	80.0	14.6	9.8	5.9	2.9	1.0	0.0	1.9	1.9	1.0
82.5°	74.2	29.3	10.8	7.8	4.9	2.9	1.0	0.0	1.9	1.9	1.9
85°	29.3	13.6	9.8	7.8	5.9	2.9	1.0	0.0	1.9	1.9	1.9
87.5°	13.6	9.8	9.8	8.7	6.8	2.9	1.0	0.0	1.9	1.0	1.9
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)