

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: P650826

Luminaire Tested: **GALN-SA3C-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12768 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

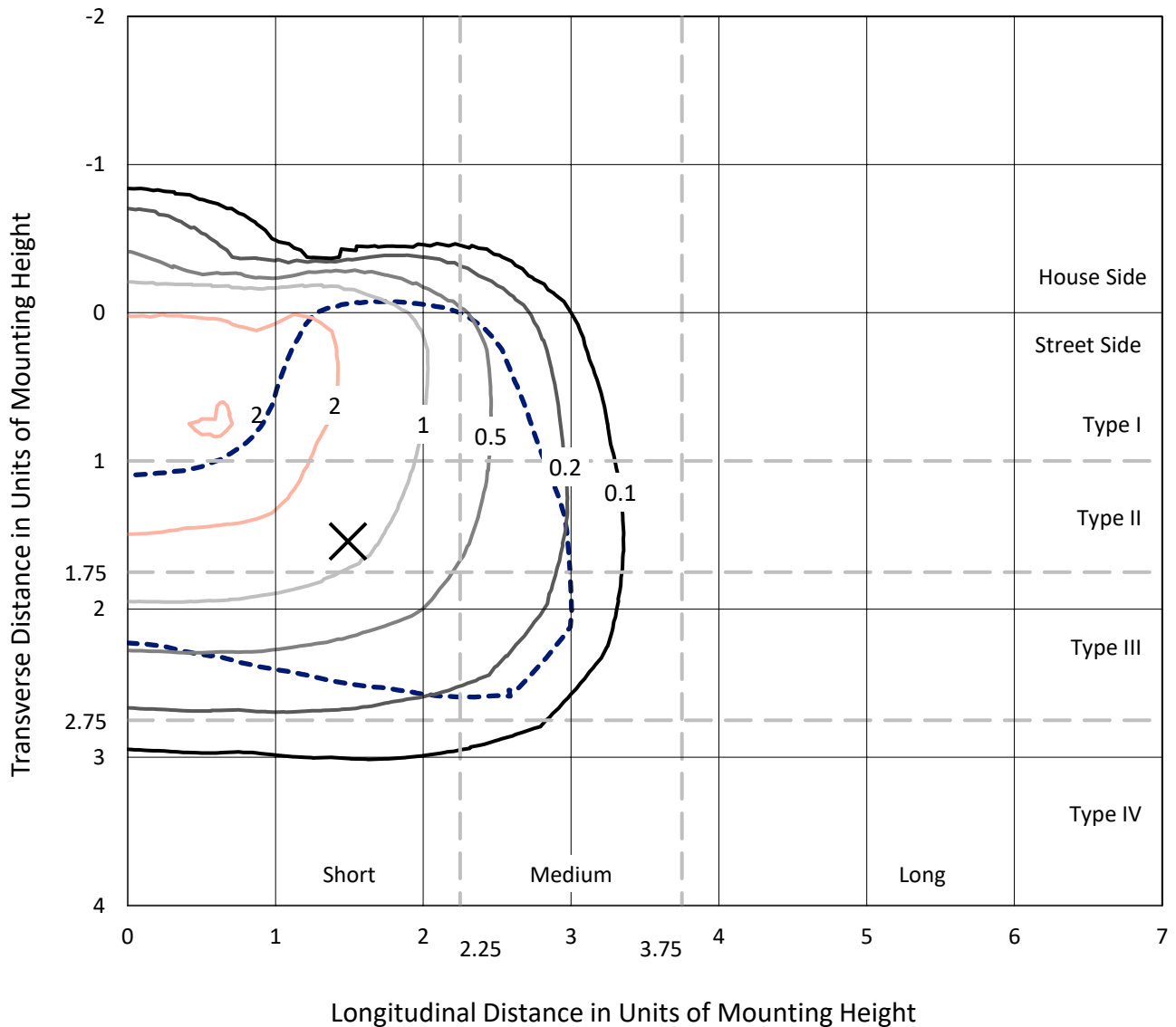
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650826
 CATALOG NUMBER: GALN-SA3C-840-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

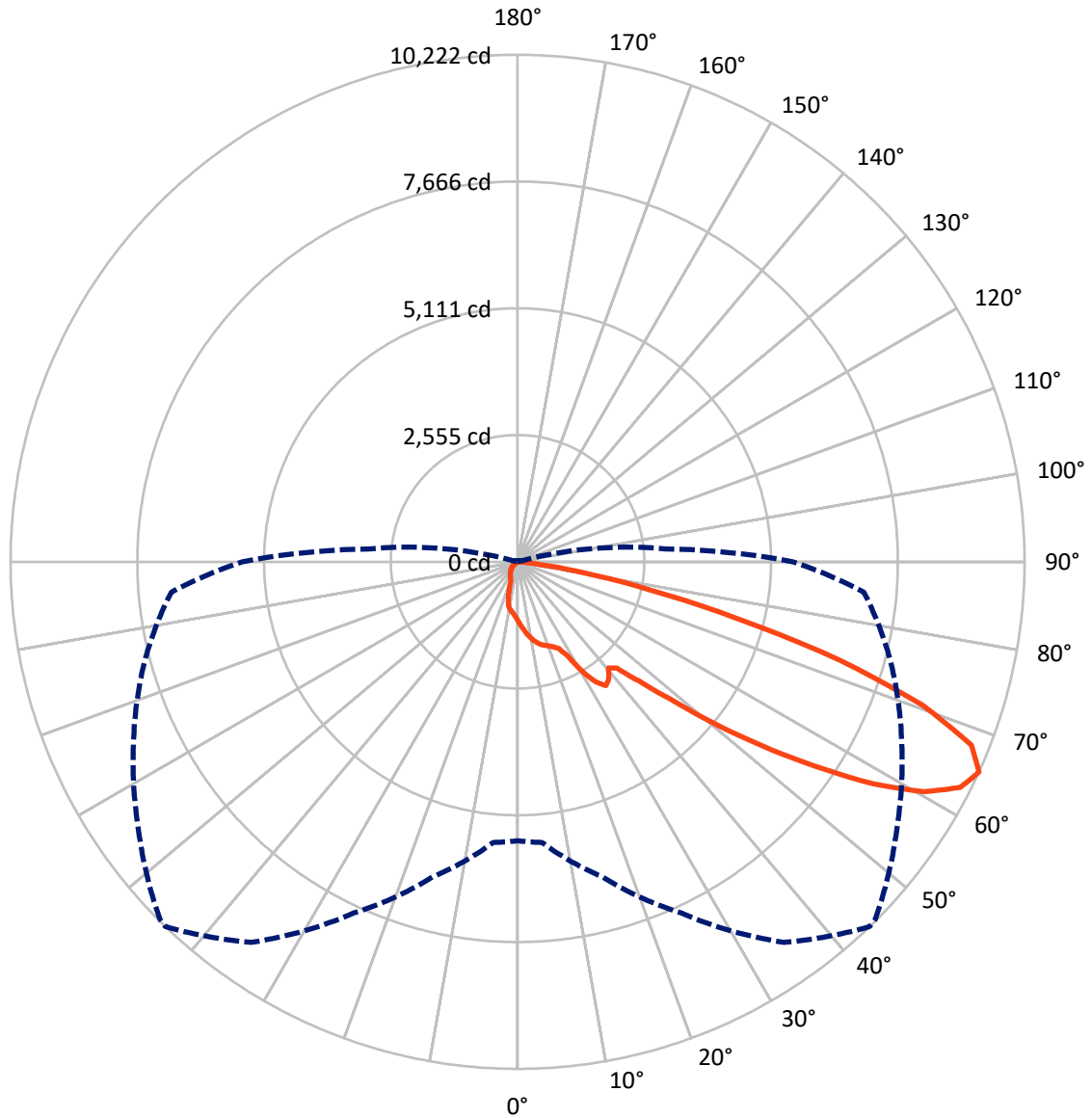
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

REPORT NUMBER: P650826
CATALOG NUMBER: GALN-SA3C-840-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P650826
 CATALOG NUMBER: GALN-SA3C-840-U-T4W-HSS

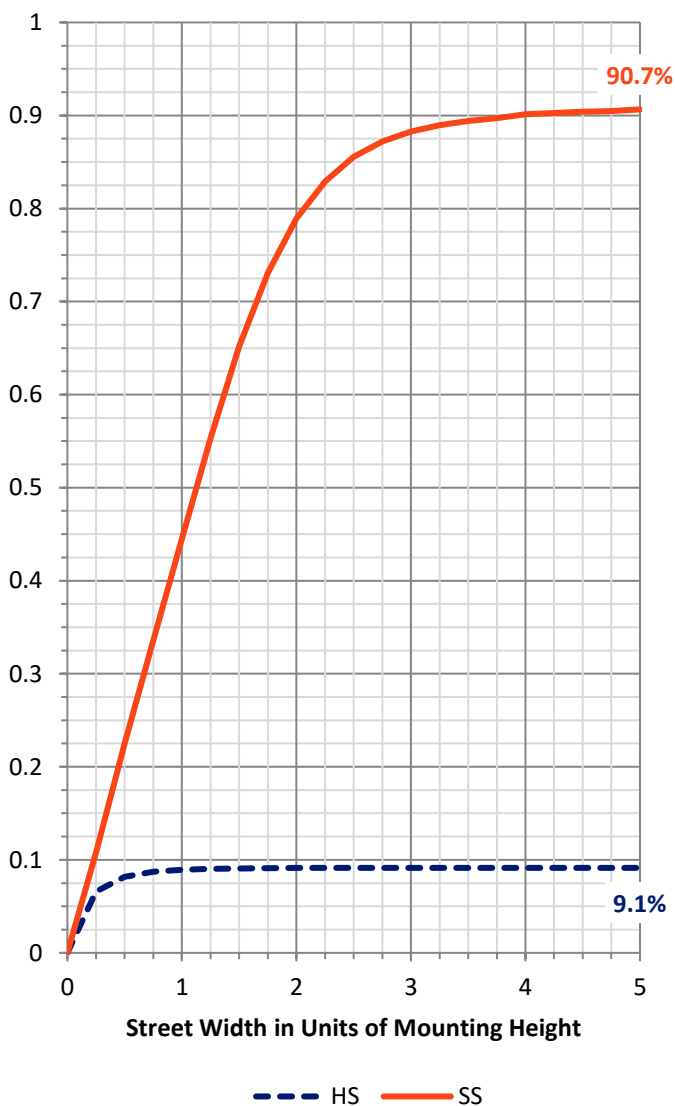
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1176.4	0.0	1176.4
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	11591.7	0.0	11591.7
	% Fixture	90.8	0.0	90.8
Total	Lumens	12768.0	0.0	12768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	0.9
10°-20°	355.7	2.8
20°-30°	603.2	4.7
30°-40°	1002.9	7.9
40°-50°	1751.0	13.7
50°-60°	3420.9	26.8
60°-70°	3969.0	31.1
70°-80°	1445.3	11.3
80°-90°	101.8	0.8
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°	12768.0	100.0
0°-180°	12768.0	100.0

Coefficient of Utilization



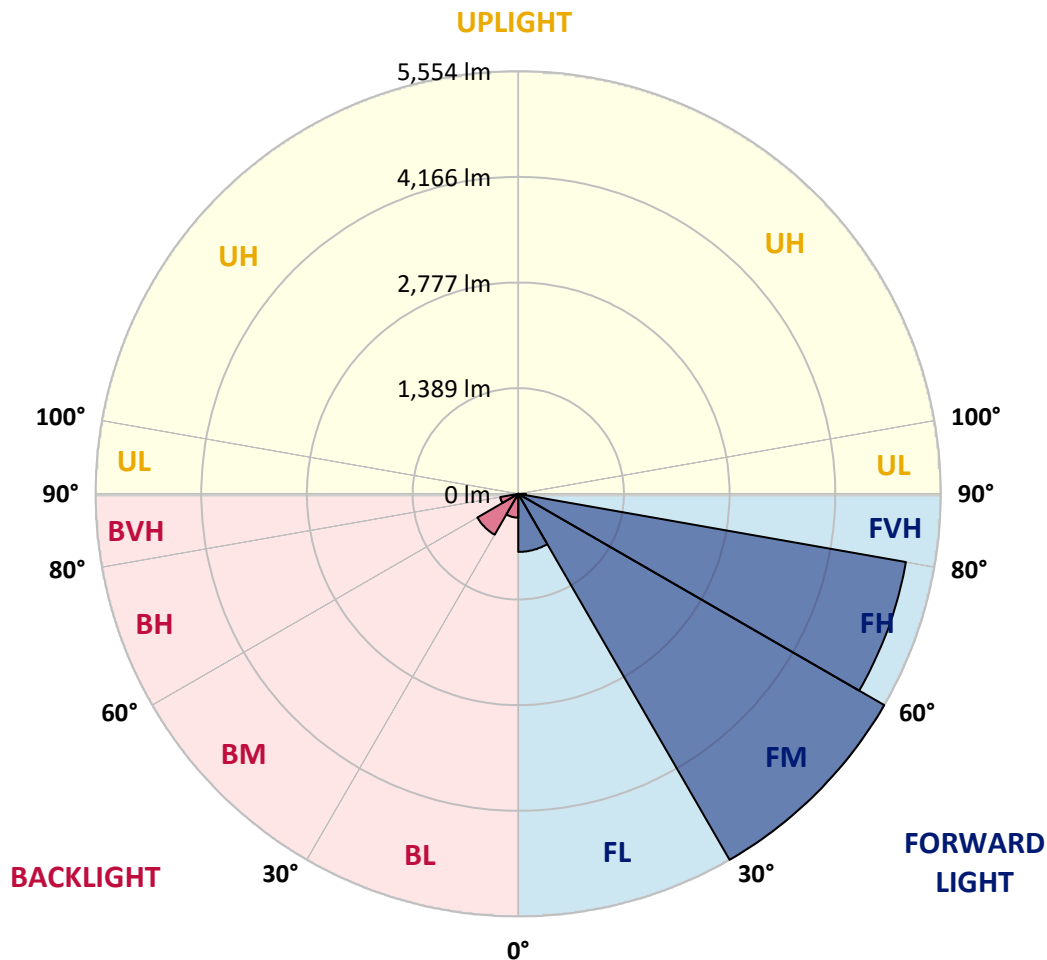
REPORT NUMBER: P650826
 CATALOG NUMBER: GALN-SA3C-840-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.6	6.0			
FM (30°-60°)	5554.1	43.5			
FH (60°-80°)	5173.4	40.5			G3/7500
FVH (80°-90°)	100.5	0.8			G2/225
BL (0°-30°)	313.4	2.5	B1/500		
BM (30°-60°)	620.7	4.9	B1/1000		
BH (60°-80°)	240.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.4	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-G3

Type III Short





REPORT NUMBER: P650826

CATALOG NUMBER: GALN-SA3C-840-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1337.6	1331.7	1328.8	1313.2	1301.5	1286.9	1286.9	1268.3	1246.9	1223.5	1202.0
5°	1486.9	1477.1	1464.4	1450.8	1423.5	1384.5	1384.5	1345.4	1300.5	1260.5	1216.6
7.5°	1630.3	1621.5	1600.1	1573.7	1528.9	1487.8	1485.0	1428.4	1374.7	1314.1	1251.7
10°	1756.2	1749.3	1730.8	1680.1	1633.2	1579.6	1578.6	1515.1	1452.7	1378.6	1301.5
12.5°	1844.0	1844.9	1820.5	1771.7	1711.3	1660.6	1656.6	1594.2	1528.9	1448.8	1354.2
15°	1906.4	1906.4	1881.1	1826.4	1771.7	1726.9	1723.0	1668.4	1601.0	1514.2	1411.8
17.5°	1924.0	1929.8	1902.5	1853.7	1809.8	1770.8	1769.8	1724.0	1670.3	1586.4	1470.3
20°	1917.1	1922.9	1901.5	1863.5	1833.2	1810.8	1807.8	1789.3	1739.5	1660.6	1532.7
22.5°	1902.5	1908.3	1892.8	1870.3	1855.7	1862.5	1857.6	1873.2	1846.9	1751.3	1606.9
25°	1905.5	1911.3	1899.6	1886.9	1899.6	1941.5	1954.2	2021.5	1998.1	1866.4	1686.9
27.5°	1997.1	2008.8	1992.2	1998.1	2043.0	2140.5	2164.9	2281.0	2177.6	2012.8	1811.8
30°	2201.1	2193.2	2162.0	2190.3	2346.4	2553.3	2546.4	2527.9	2365.9	2181.6	1960.0
32.5°	2386.4	2379.6	2377.6	2499.6	2782.5	2883.0	2878.2	2698.6	2534.7	2374.7	2106.4
35°	2461.5	2435.2	2429.3	2724.9	3198.2	3065.4	3035.2	2768.8	2739.6	2585.4	2255.6
37.5°	2687.9	2669.3	2578.6	2762.0	3032.3	2988.4	2964.9	2889.8	2958.1	2771.8	2424.4
40°	3154.3	3102.5	3020.5	2841.1	2797.2	2815.7	2839.1	3044.9	3216.7	3026.4	2649.8
42.5°	3733.8	3722.0	3569.9	3235.2	2906.4	2931.8	2962.0	3368.9	3588.4	3409.8	3017.7
45°	4429.4	4445.9	4226.4	3831.3	3400.1	3421.5	3465.4	3846.9	4091.8	4005.9	3596.2
47.5°	5061.6	5048.9	4974.8	4564.0	4166.0	4118.1	4189.4	4460.6	4788.4	4802.1	4314.2
50°	5697.7	5765.1	5654.8	5493.8	5198.2	5097.7	5071.4	5204.0	5703.6	5638.2	5176.7
52.5°	6611.9	6647.0	6440.2	6399.2	6466.5	6140.6	6114.3	6146.5	6593.4	6369.0	5822.6
55°	7186.5	7166.1	7089.0	7409.0	7675.3	7268.5	7235.3	7105.5	7331.9	6885.1	6444.1
57.5°	7368.0	7397.3	7576.8	8155.3	8785.6	8440.3	8379.7	8010.9	7864.6	7366.1	7015.8
60°	7287.0	7340.7	7728.0	8588.5	9462.7	9411.0	9359.3	8739.8	8247.1	7768.0	7416.8
62.5°	6710.4	6785.5	7405.1	8511.4	9691.9	10014.9	9950.5	9194.4	8501.7	7963.2	7487.0
65°	5623.6	5679.2	6569.0	7812.0	9366.1	10221.8	10198.3	9336.9	8541.7	7784.6	7006.0
67.5°	4008.9	4198.2	5022.6	6583.6	8402.2	9868.5	9908.6	9166.1	8166.1	7012.8	5802.1
70°	2520.1	2648.8	3240.1	4713.3	6735.8	8657.8	8789.5	8384.6	7087.0	5466.5	3884.0
72.5°	1202.0	1297.6	1719.1	2983.5	4754.3	6811.9	6916.3	6883.1	5480.1	3444.0	2003.9
75°	535.6	571.7	820.5	1523.0	3069.3	4578.7	4849.0	4893.8	3424.5	1684.9	779.5
77.5°	273.2	274.2	384.4	737.6	1532.7	2731.8	2785.5	2942.5	1856.7	742.4	271.2
80°	145.4	155.2	203.9	348.3	795.2	1345.4	1338.5	1471.2	823.4	363.9	90.7
82.5°	65.3	72.2	115.1	182.4	388.3	510.2	550.3	602.0	353.2	232.2	40.0
85°	19.5	23.4	56.6	91.7	140.5	147.3	164.9	212.7	200.0	164.9	20.5
87.5°	2.9	2.9	23.4	25.4	20.5	26.3	27.3	30.3	64.4	60.5	10.8
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: P650826

CATALOG NUMBER: GALN-SA3C-840-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3	1188.3
2.5°	1190.3	1183.5	1159.1	1138.5	1121.0	1110.3	1097.6	1089.8	1085.9	1083.0	1084.0
5°	1195.1	1178.6	1136.6	1103.5	1078.1	1050.7	1032.2	1021.5	1016.6	1008.8	1008.8
7.5°	1222.5	1196.2	1137.6	1086.8	1042.9	1005.9	970.8	958.1	949.3	947.3	945.4
10°	1261.5	1228.4	1148.3	1078.1	1015.7	964.9	915.2	871.3	837.1	816.6	813.7
12.5°	1310.3	1262.5	1164.9	1072.2	992.2	902.5	770.8	682.0	622.4	603.9	606.9
15°	1355.2	1303.5	1181.5	1067.3	949.3	748.3	599.0	497.5	467.3	464.4	465.4
17.5°	1408.8	1347.4	1201.0	1060.5	831.2	571.7	444.9	417.6	423.4	433.2	432.2
20°	1464.4	1394.2	1224.4	1019.5	663.5	430.3	393.2	396.1	404.9	413.7	415.6
22.5°	1524.0	1447.9	1251.7	921.0	506.4	374.7	372.7	376.6	385.3	395.1	397.1
25°	1605.9	1515.1	1272.3	792.2	383.4	346.3	350.3	357.1	364.9	375.6	377.6
27.5°	1711.3	1605.9	1282.9	624.4	331.7	321.0	321.9	331.7	341.4	351.2	351.2
30°	1847.8	1714.2	1261.5	472.2	306.4	296.6	292.7	298.6	311.3	321.0	321.9
32.5°	1969.8	1816.6	1204.9	361.0	287.8	274.2	264.4	265.3	270.2	276.1	277.1
35°	2091.7	1916.1	1108.4	303.4	268.3	252.7	238.1	230.3	226.3	223.5	226.3
37.5°	2247.9	2040.1	979.5	276.1	251.7	232.2	211.7	195.1	181.5	172.7	174.7
40°	2448.8	2211.7	827.4	258.5	236.1	212.7	185.4	163.9	140.5	132.7	128.8
42.5°	2780.6	2472.3	667.3	243.9	220.5	192.2	158.0	128.8	107.3	99.5	101.4
45°	3304.5	2801.0	514.2	228.3	204.9	169.8	132.7	101.4	83.9	80.0	81.9
47.5°	3999.1	3226.4	396.1	210.8	185.4	145.4	104.4	80.0	69.3	68.3	67.3
50°	4652.8	3622.5	330.8	191.2	162.0	121.0	85.9	67.3	60.5	59.5	59.5
52.5°	5244.1	3906.4	269.3	168.8	136.6	99.5	72.2	59.5	53.7	50.7	50.7
55°	5769.9	4091.8	218.6	141.5	107.3	79.1	62.4	53.7	46.8	42.9	42.0
57.5°	6167.0	4114.3	163.9	113.2	80.0	61.5	53.7	46.8	39.0	34.1	32.2
60°	6336.8	3920.1	121.0	85.9	59.5	48.8	42.9	38.0	29.3	24.4	23.4
62.5°	6166.0	3542.5	89.7	65.3	45.8	36.1	30.3	28.3	20.5	14.6	13.6
65°	5554.3	2997.2	71.2	49.8	34.1	26.3	19.5	18.5	12.7	6.8	5.9
67.5°	4449.9	2347.4	56.6	37.1	24.4	17.6	12.7	11.7	6.8	1.9	1.9
70°	2893.7	1500.5	45.8	27.3	15.6	11.7	7.8	5.9	3.9	1.0	0.0
72.5°	1431.3	701.5	37.1	21.4	10.8	5.9	2.9	1.9	2.9	0.0	0.0
75°	555.1	249.8	27.3	14.6	5.9	2.9	1.9	0.0	1.0	0.0	0.0
77.5°	184.4	82.9	16.6	7.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	68.3	32.2	8.7	4.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.3	12.7	5.9	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.6	7.8	3.9	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	5.9	3.9	2.9	1.9	1.0	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)