

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: P646866

Luminaire Tested: **GALN-SA3C-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646866
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-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 11887.5 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

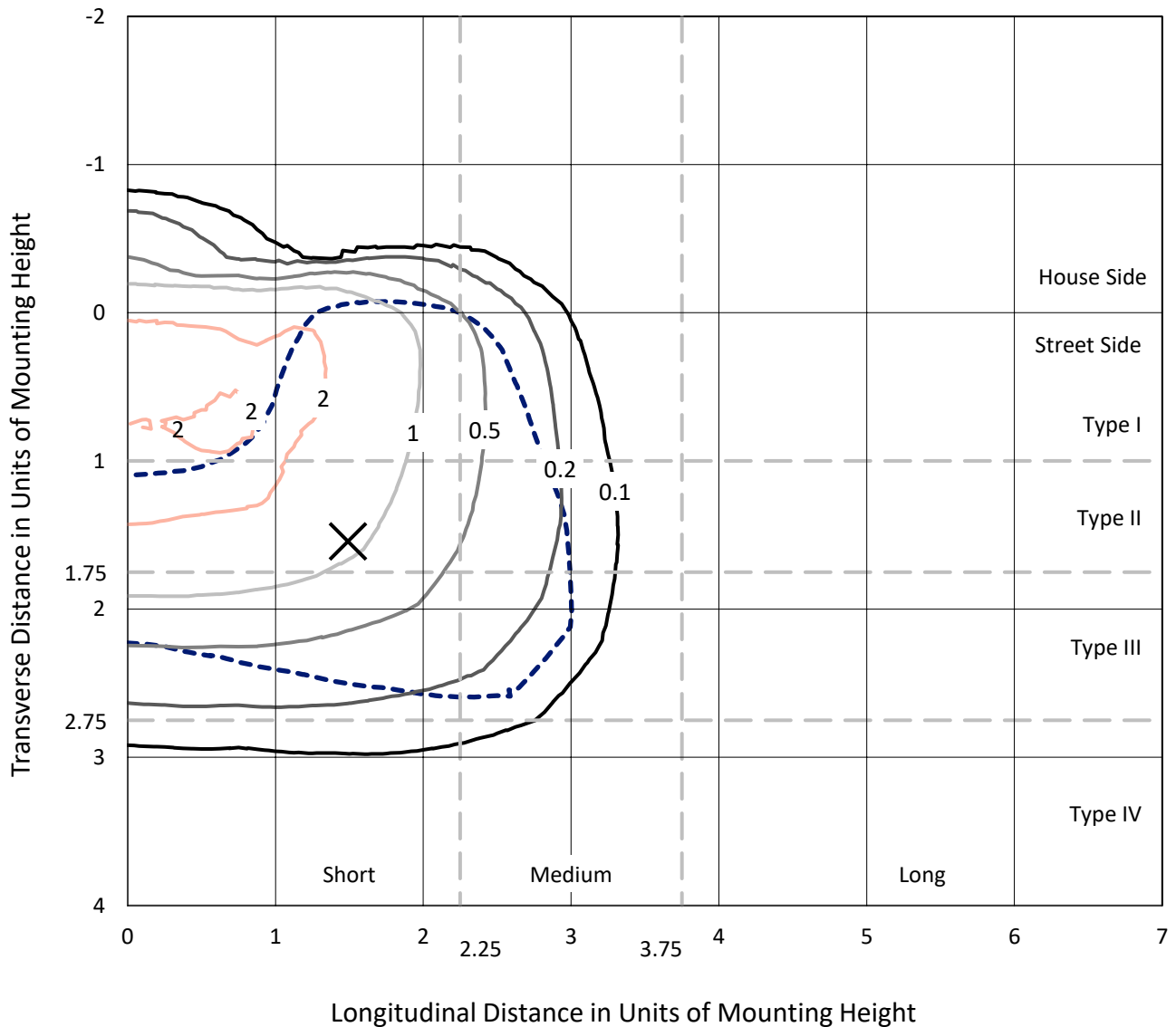
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

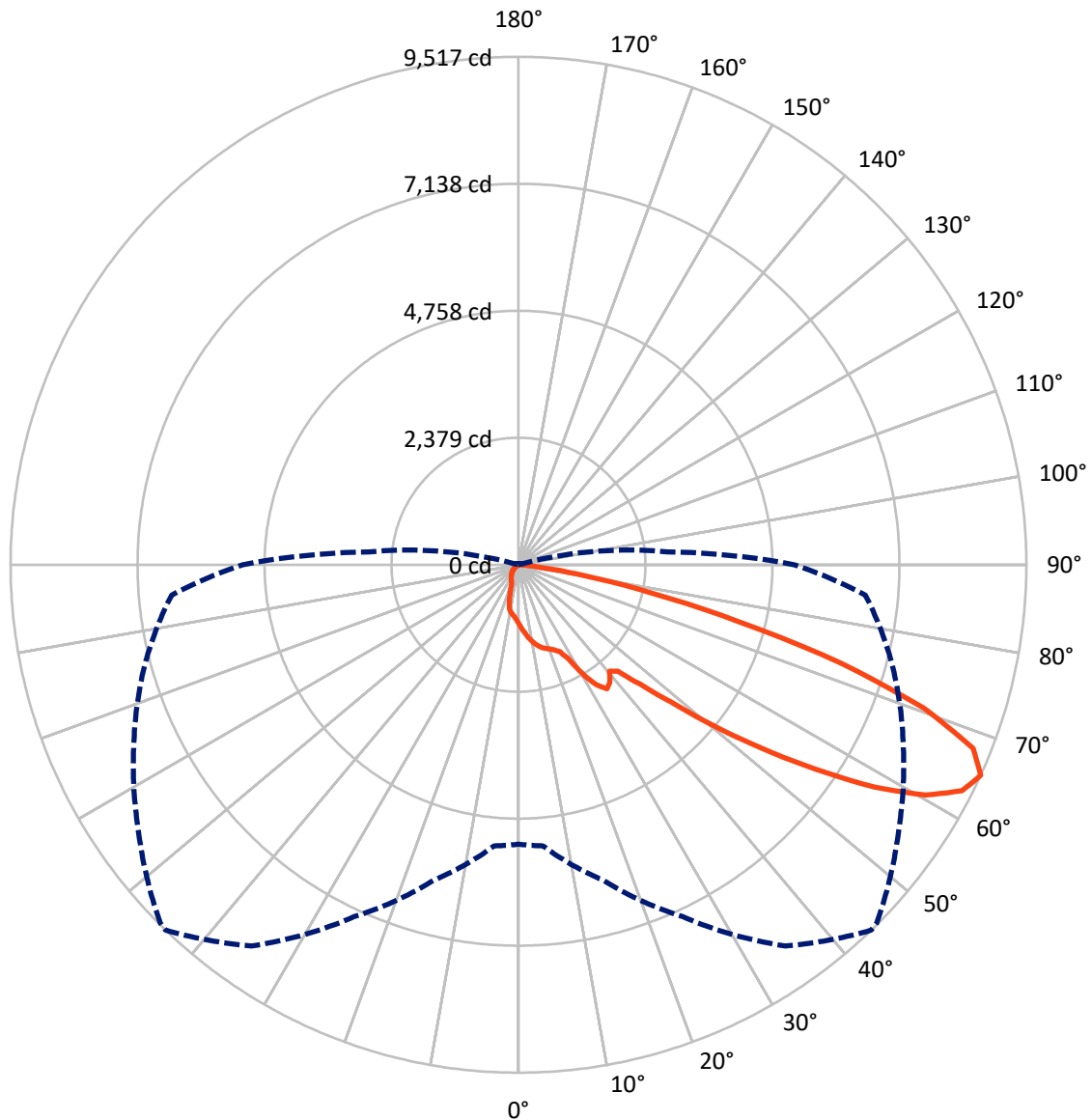
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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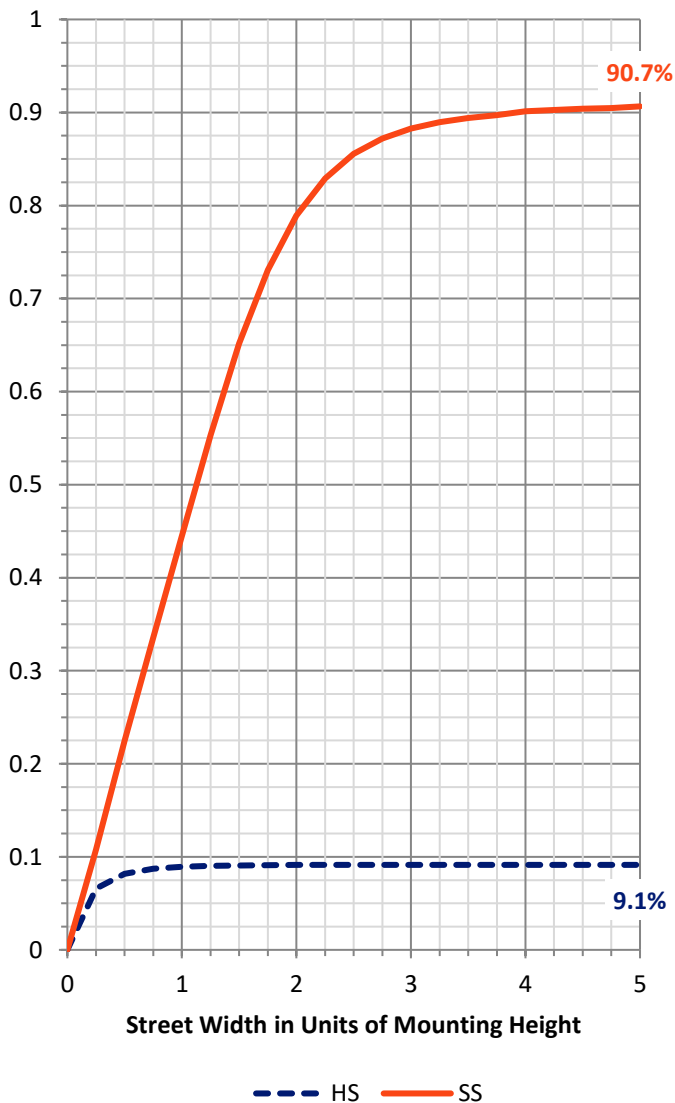
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1095.2	0.0	1095.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	10792.2	0.0	10792.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	11887.5	0.0	11887.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	0.9
10°-20°	331.2	2.8
20°-30°	561.6	4.7
30°-40°	933.7	7.9
40°-50°	1630.3	13.7
50°-60°	3185.0	26.8
60°-70°	3695.3	31.1
70°-80°	1345.6	11.3
80°-90°	94.8	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°	11887.5	100.0
0°-180°	11887.5	100.0

Coefficient of Utilization

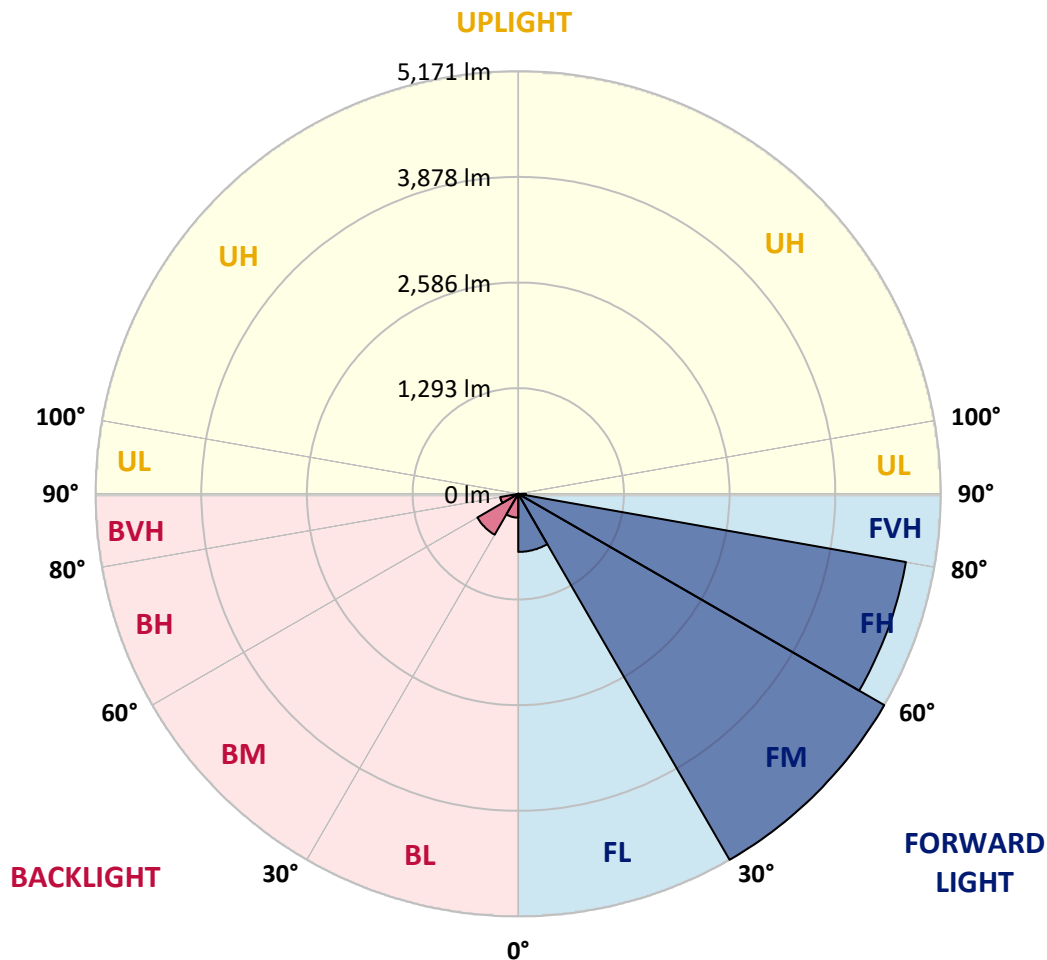


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.0	6.0			
FM (30°-60°)	5171.1	43.5			
FH (60°-80°)	4816.7	40.5			G2/5000
FVH (80°-90°)	93.5	0.8			G1/100
BL (0°-30°)	291.8	2.5	B1/500		
BM (30°-60°)	577.9	4.9	B1/1000		
BH (60°-80°)	224.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4
2.5°	1245.4	1239.9	1237.1	1222.7	1211.8	1198.1	1198.1	1180.8	1160.9	1139.1	1119.1
5°	1384.3	1375.3	1363.4	1350.8	1325.3	1289.0	1289.0	1252.6	1210.8	1173.6	1132.7
7.5°	1517.8	1509.7	1489.7	1465.1	1423.4	1385.2	1382.5	1329.8	1279.9	1223.5	1165.4
10°	1635.1	1628.6	1611.4	1564.2	1520.6	1470.6	1469.7	1410.7	1352.6	1283.5	1211.8
12.5°	1716.8	1717.7	1695.0	1649.5	1593.2	1546.0	1542.4	1484.3	1423.4	1348.9	1260.8
15°	1774.9	1774.9	1751.3	1700.4	1649.5	1607.8	1604.1	1553.3	1490.6	1409.8	1314.4
17.5°	1791.3	1796.8	1771.3	1725.9	1685.0	1648.7	1647.7	1605.1	1555.1	1477.0	1368.9
20°	1784.9	1790.3	1770.4	1735.0	1706.8	1685.9	1683.1	1665.9	1619.6	1546.0	1427.0
22.5°	1771.3	1776.7	1762.2	1741.3	1727.7	1734.0	1729.5	1744.1	1719.5	1630.5	1496.1
25°	1774.0	1779.4	1768.6	1756.7	1768.6	1807.6	1819.5	1882.1	1860.3	1737.7	1570.5
27.5°	1859.4	1870.3	1854.8	1860.3	1902.1	1992.9	2015.6	2123.7	2027.4	1874.0	1686.8
30°	2049.3	2042.0	2012.9	2039.2	2184.6	2377.2	2370.8	2353.5	2202.7	2031.1	1824.9
32.5°	2221.8	2215.5	2213.6	2327.2	2590.6	2684.2	2679.7	2512.5	2359.9	2211.0	1961.1
35°	2291.8	2267.3	2261.8	2537.0	2977.6	2854.0	2825.8	2577.9	2550.6	2407.1	2100.1
37.5°	2502.5	2485.2	2400.8	2571.5	2823.2	2782.3	2760.5	2690.5	2754.1	2580.6	2257.2
40°	2936.7	2888.6	2812.2	2645.1	2604.3	2621.5	2643.3	2834.9	2994.8	2817.7	2467.1
42.5°	3476.3	3465.3	3323.7	3012.1	2706.0	2729.6	2757.7	3136.5	3340.9	3174.7	2809.6
45°	4123.9	4139.3	3935.0	3567.1	3165.6	3185.6	3226.4	3581.6	3809.6	3729.7	3348.2
47.5°	4712.6	4700.7	4631.7	4249.3	3878.7	3834.1	3900.4	4153.0	4458.2	4470.9	4016.7
50°	5304.7	5367.5	5264.8	5114.9	4839.7	4746.2	4721.6	4845.1	5310.2	5249.4	4819.7
52.5°	6155.9	6188.6	5996.1	5957.8	6020.6	5717.2	5692.6	5722.6	6138.6	5929.7	5421.0
55°	6690.9	6671.9	6600.1	6898.0	7146.0	6767.2	6736.3	6615.5	6826.3	6410.3	5999.7
57.5°	6859.9	6887.1	7054.3	7592.9	8179.7	7858.2	7801.8	7458.5	7322.2	6858.1	6531.9
60°	6784.5	6834.4	7195.1	7996.2	8810.1	8761.9	8713.9	8137.0	7678.3	7232.3	6905.3
62.5°	6247.6	6317.6	6894.4	7924.4	9023.5	9324.2	9264.3	8560.3	7915.3	7414.0	6970.7
65°	5235.8	5287.5	6115.9	7273.2	8720.2	9516.8	9495.0	8692.9	7952.6	7247.8	6522.9
67.5°	3732.4	3908.7	4676.2	6129.6	7822.7	9188.0	9225.2	8534.0	7602.9	6529.2	5402.0
70°	2346.3	2466.1	3016.7	4388.2	6271.3	8060.8	8183.4	7806.4	6598.3	5089.5	3616.1
72.5°	1119.1	1208.1	1600.5	2777.8	4426.4	6342.1	6439.3	6408.4	5102.2	3206.5	1865.7
75°	498.7	532.3	763.9	1417.9	2857.6	4262.9	4514.5	4556.3	3188.3	1568.7	725.8
77.5°	254.3	255.3	357.9	686.7	1427.0	2543.4	2593.4	2739.6	1728.6	691.2	252.5
80°	135.4	144.5	189.9	324.3	740.3	1252.6	1246.2	1369.8	766.6	338.8	84.5
82.5°	60.8	67.2	107.2	169.8	361.5	475.0	512.3	560.5	328.9	216.2	37.3
85°	18.2	21.8	52.7	85.3	130.8	137.2	153.5	198.0	186.2	153.5	19.1
87.5°	2.7	2.7	21.8	23.6	19.1	24.5	25.4	28.2	60.0	56.3	10.0
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°	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4	1106.4
2.5°	1108.2	1101.8	1079.1	1060.0	1043.7	1033.7	1021.9	1014.6	1011.0	1008.3	1009.2
5°	1112.7	1097.3	1058.2	1027.4	1003.7	978.3	961.1	951.0	946.5	939.2	939.2
7.5°	1138.2	1113.7	1059.2	1011.9	971.0	936.5	903.8	892.0	883.9	882.0	880.2
10°	1174.5	1143.6	1069.1	1003.7	945.6	898.3	852.1	811.2	779.4	760.3	757.6
12.5°	1219.9	1175.4	1084.5	998.2	923.8	840.2	717.6	634.9	579.5	562.3	565.0
15°	1261.7	1213.6	1100.0	993.7	883.9	696.7	557.7	463.2	435.1	432.4	433.3
17.5°	1311.7	1254.4	1118.2	987.4	773.9	532.3	414.2	388.8	394.2	403.3	402.4
20°	1363.4	1298.1	1140.0	949.2	617.7	400.6	366.1	368.8	376.9	385.2	387.0
22.5°	1418.9	1348.0	1165.4	857.5	471.4	348.8	347.0	350.6	358.8	367.9	369.7
25°	1495.1	1410.7	1184.5	737.6	357.0	322.4	326.1	332.5	339.7	349.7	351.6
27.5°	1593.2	1495.1	1194.5	581.4	308.8	298.9	299.7	308.8	317.9	327.0	327.0
30°	1720.4	1596.0	1174.5	439.7	285.2	276.2	272.5	278.0	289.8	298.9	299.7
32.5°	1833.9	1691.4	1121.8	336.1	267.9	255.3	246.2	247.0	251.6	257.1	258.0
35°	1947.5	1784.0	1031.9	282.5	249.8	235.3	221.7	214.4	210.7	208.0	210.7
37.5°	2092.9	1899.4	912.0	257.1	234.4	216.2	197.1	181.7	169.0	160.7	162.6
40°	2279.9	2059.2	770.3	240.7	219.8	198.0	172.6	152.6	130.8	123.6	119.9
42.5°	2588.8	2301.8	621.3	227.1	205.3	178.9	147.1	119.9	99.9	92.6	94.4
45°	3076.6	2607.9	478.7	212.6	190.7	158.1	123.6	94.4	78.1	74.5	76.3
47.5°	3723.3	3003.9	368.8	196.2	172.6	135.4	97.2	74.5	64.5	63.6	62.6
50°	4331.9	3372.7	308.0	178.1	150.8	112.7	79.9	62.6	56.3	55.4	55.4
52.5°	4882.4	3637.0	250.7	157.1	127.2	92.6	67.2	55.4	50.0	47.2	47.2
55°	5372.0	3809.6	203.5	131.7	99.9	73.6	58.1	50.0	43.6	39.9	39.1
57.5°	5741.7	3830.5	152.6	105.4	74.5	57.2	50.0	43.6	36.3	31.8	30.0
60°	5899.7	3649.7	112.7	79.9	55.4	45.4	39.9	35.4	27.2	22.7	21.8
62.5°	5740.8	3298.2	83.5	60.8	42.7	33.6	28.2	26.3	19.1	13.6	12.7
65°	5171.2	2790.5	66.3	46.4	31.8	24.5	18.2	17.2	11.8	6.3	5.5
67.5°	4143.0	2185.5	52.7	34.5	22.7	16.4	11.8	10.9	6.3	1.8	1.8
70°	2694.1	1397.0	42.7	25.4	14.6	10.9	7.3	5.5	3.6	0.9	0.0
72.5°	1332.6	653.1	34.5	20.0	10.0	5.5	2.7	1.8	2.7	0.0	0.0
75°	516.9	232.6	25.4	13.6	5.5	2.7	1.8	0.0	0.9	0.0	0.0
77.5°	171.7	77.2	15.4	7.3	3.6	1.8	0.0	0.0	0.0	0.0	0.0
80°	63.6	30.0	8.1	4.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	25.4	11.8	5.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.7	7.3	3.6	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	5.5	3.6	2.7	1.8	0.9	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)