

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: P646809

Luminaire Tested: **GALN-SA2C-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7971.7 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

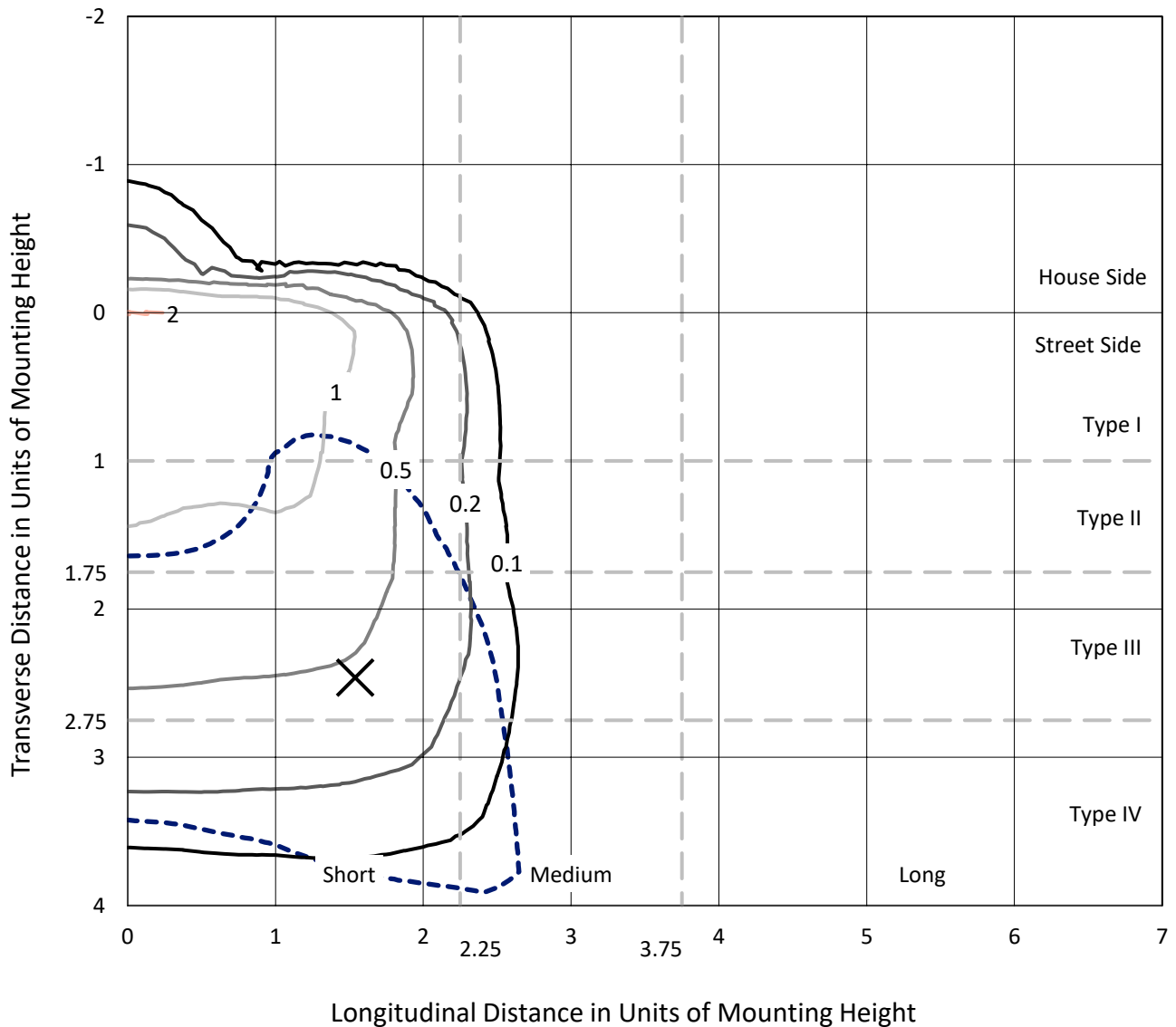
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

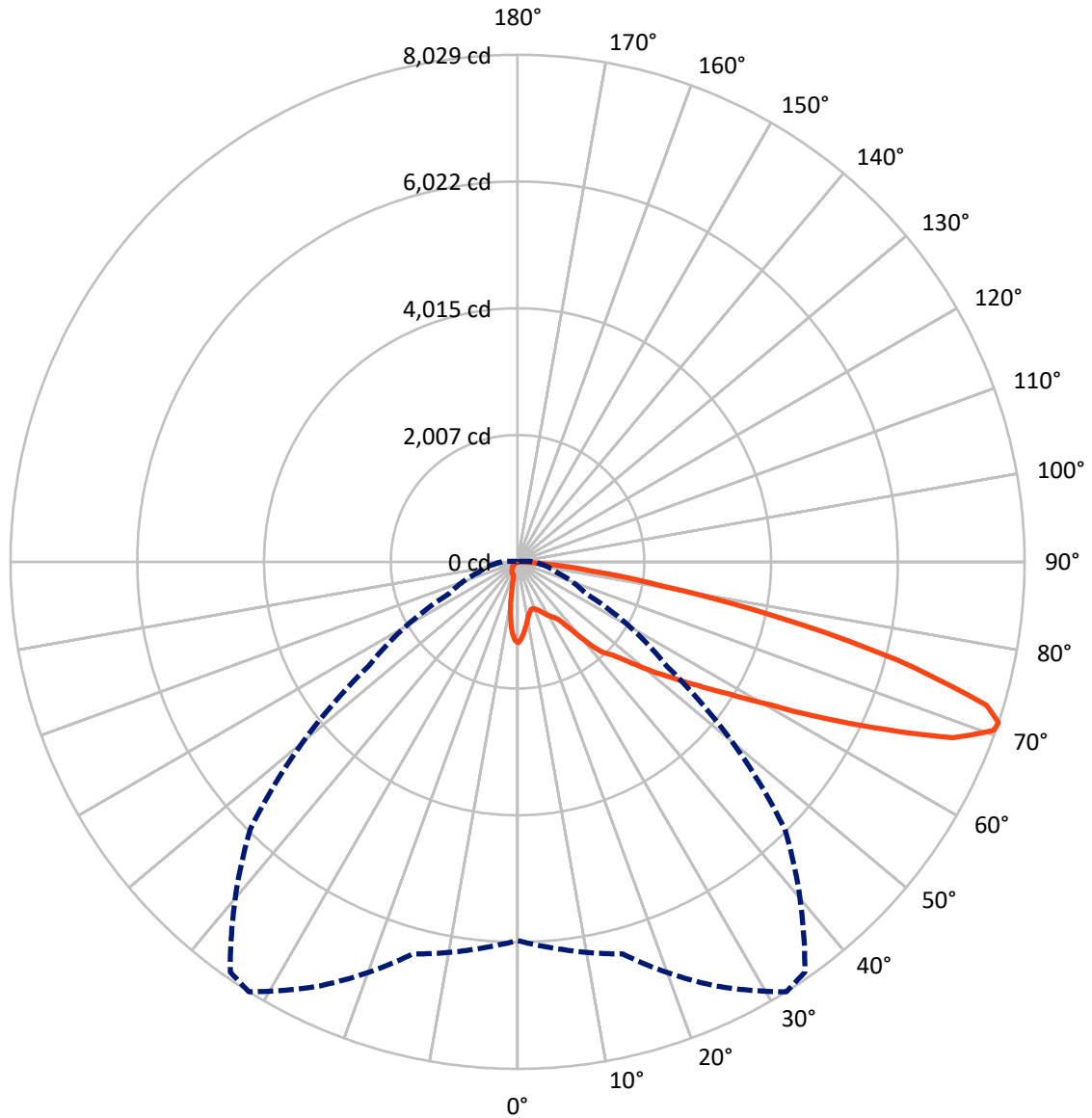
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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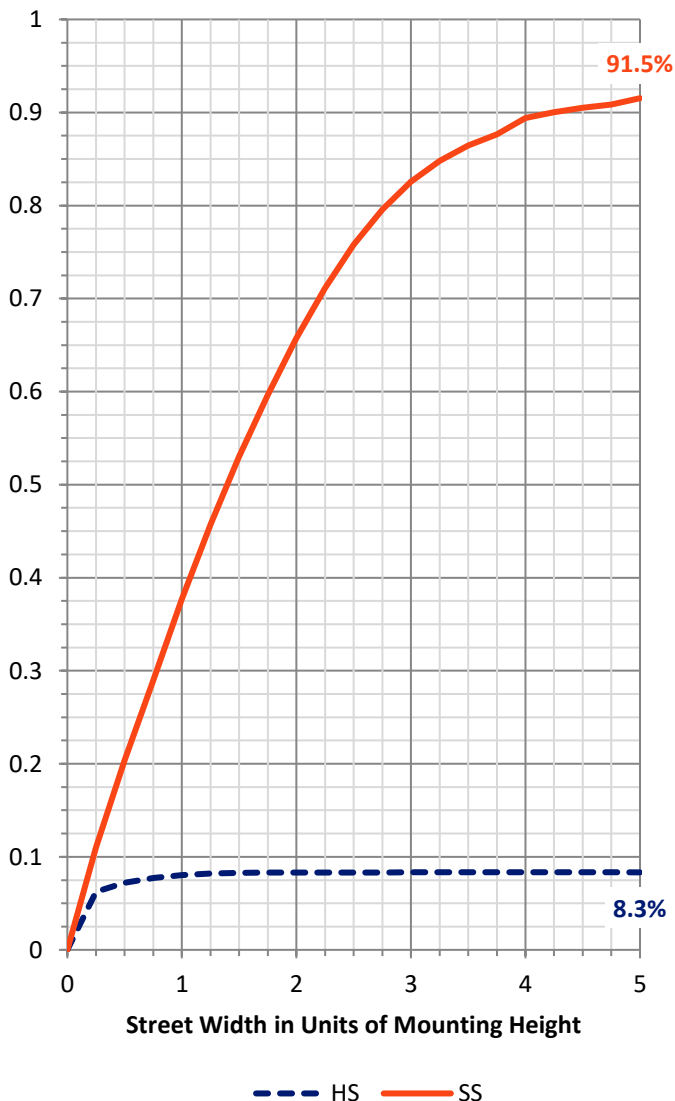
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	667.7	0.0	667.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7304.0	0.0	7304.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	7971.7	0.0	7971.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	1.3
10°-20°	226.2	2.8
20°-30°	352.0	4.4
30°-40°	586.4	7.4
40°-50°	1090.7	13.7
50°-60°	1751.2	22.0
60°-70°	2355.4	29.5
70°-80°	1397.5	17.5
80°-90°	108.0	1.4
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°	7971.7	100.0
0°-180°	7971.7	100.0

Coefficient of Utilization



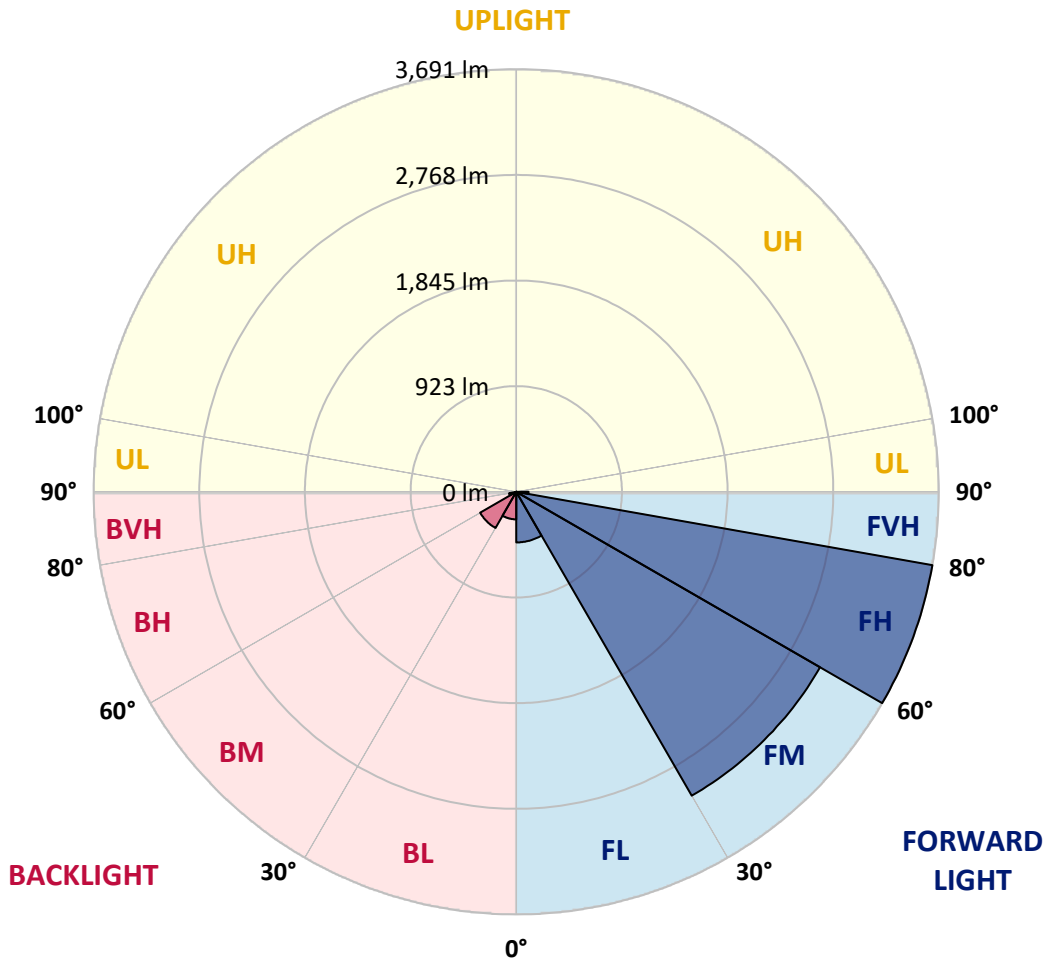
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.8	5.5			
FM (30°-60°)	3064.0	38.4			
FH (60°-80°)	3690.5	46.3			G2/5000
FVH (80°-90°)	107.6	1.3			G2/225
BL (0°-30°)	240.6	3.0	B1/500		
BM (30°-60°)	364.3	4.6	B1/1000		
BH (60°-80°)	62.4	0.8	B0/110		G0/110
BVH (80°-90°)	0.4	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0
2.5°	1189.0	1201.2	1199.4	1203.6	1214.0	1218.3	1229.9	1242.8	1260.6	1272.8	1280.8
5°	1064.7	1074.0	1075.1	1096.6	1107.0	1118.6	1152.9	1190.2	1231.8	1264.9	1286.9
7.5°	931.9	936.9	946.6	974.8	1001.1	1012.7	1064.7	1129.6	1195.1	1256.9	1296.6
10°	822.4	827.9	845.6	875.6	900.1	915.4	987.7	1069.0	1160.8	1252.6	1310.7
12.5°	760.0	763.0	769.8	796.7	827.9	844.5	922.1	1015.2	1133.3	1254.4	1334.6
15°	755.8	754.5	746.5	757.6	785.7	802.8	878.7	978.4	1108.8	1260.6	1362.7
17.5°	778.4	775.3	756.3	756.3	779.6	793.6	860.4	958.9	1096.6	1274.6	1402.5
20°	813.2	808.4	777.1	774.7	797.3	812.0	871.4	960.1	1099.0	1301.0	1455.8
22.5°	857.3	851.8	804.7	805.9	830.4	845.1	903.2	982.1	1114.3	1333.4	1512.7
25°	914.9	908.7	853.0	850.6	876.3	889.1	950.3	1021.3	1135.7	1373.8	1587.3
27.5°	991.3	978.4	911.8	908.1	935.6	952.1	1007.3	1074.0	1173.6	1429.4	1687.7
30°	1054.3	1040.3	976.6	966.8	996.2	1009.1	1066.0	1144.9	1248.3	1526.8	1826.6
32.5°	1136.9	1116.2	1041.5	1015.8	1047.0	1063.5	1151.0	1277.1	1359.1	1629.6	1991.8
35°	1323.0	1310.1	1219.0	1129.0	1127.1	1148.0	1276.4	1410.5	1472.9	1789.9	2217.0
37.5°	1589.2	1580.0	1483.3	1362.7	1327.9	1318.1	1428.8	1557.3	1654.6	2010.2	2478.9
40°	1898.1	1876.8	1788.1	1685.9	1640.5	1611.8	1608.8	1775.8	1892.0	2309.4	2751.9
42.5°	2119.7	2080.5	1972.8	1965.5	1955.7	1925.7	1838.8	2095.2	2198.7	2631.3	3043.7
45°	2352.2	2292.9	2132.6	2105.0	2101.3	2099.5	2186.4	2473.4	2532.8	2980.1	3343.6
47.5°	2532.8	2485.6	2354.1	2341.8	2357.1	2398.7	2646.0	2874.8	2862.6	3290.9	3595.1
50°	2773.2	2737.8	2591.5	2614.8	2693.7	2761.6	3164.3	3312.3	3133.6	3535.7	3778.0
52.5°	3057.1	2991.7	2855.8	2918.9	3040.0	3153.2	3714.4	3695.4	3324.0	3719.9	3914.5
55°	3303.2	3256.7	3210.1	3275.6	3456.8	3598.1	4211.3	3982.4	3462.3	3867.9	3974.4
57.5°	3719.2	3708.3	3660.5	3727.2	3946.9	4093.8	4656.1	4205.1	3551.0	3945.1	3904.0
60°	4334.8	4317.1	4228.4	4313.5	4599.8	4830.5	5066.1	4405.2	3571.2	3915.1	3701.6
62.5°	5075.2	5014.7	4938.9	5064.3	5457.1	5558.7	5452.3	4523.9	3495.9	3676.4	3213.2
65°	5766.8	5704.3	5706.2	5970.5	6398.3	6467.4	5902.6	4506.2	3275.6	3078.6	2370.0
67.5°	6296.1	6285.7	6360.3	6876.1	7435.4	7387.8	6305.3	4240.6	2622.7	1995.5	1259.3
70°	6323.0	6343.2	6557.4	7428.2	7996.0	7920.1	6271.0	3446.9	1635.1	917.9	496.3
71°	5997.5	6133.3	6429.4	7411.0	8029.0	7930.5	5982.1	2887.1	1199.4	640.1	358.0
72.5°	5110.8	5182.4	5822.5	6974.7	7767.8	7557.3	5249.7	2023.7	768.0	391.7	205.6
75°	2814.8	2991.1	3899.2	5471.8	6212.9	6028.1	3421.2	961.4	383.0	214.2	85.0
77.5°	1340.1	1305.8	1902.5	3254.2	4212.5	4202.7	1723.8	427.1	223.4	145.0	42.8
80°	383.0	430.8	728.2	1547.0	2338.7	2364.5	662.1	206.2	154.8	113.2	22.0
82.5°	115.6	118.1	267.4	684.1	1163.3	1096.6	248.4	105.2	111.3	90.0	12.8
85°	20.2	25.1	78.9	241.1	443.6	336.5	62.4	50.2	73.4	59.4	7.4
87.5°	1.3	1.8	26.3	27.6	39.2	22.6	11.0	7.4	15.9	15.9	4.3
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°	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0	1282.0
2.5°	1286.2	1289.9	1287.5	1282.0	1272.8	1261.8	1247.1	1234.9	1224.5	1219.0	1225.7
5°	1294.2	1299.1	1286.9	1259.3	1217.7	1172.5	1121.0	1081.2	1050.1	1040.3	1036.6
7.5°	1306.4	1309.5	1276.4	1215.3	1127.1	1020.1	926.4	847.5	786.3	768.0	741.0
10°	1322.3	1320.5	1258.1	1144.3	989.5	828.6	683.5	575.8	494.5	465.0	462.6
12.5°	1346.8	1337.1	1234.9	1047.6	825.5	615.0	435.7	340.8	289.5	272.3	268.6
15°	1377.5	1354.2	1198.1	934.4	632.1	397.1	268.6	239.9	233.2	231.9	230.7
17.5°	1413.5	1376.8	1149.8	795.5	444.3	257.6	224.6	223.9	224.6	223.4	222.8
20°	1462.5	1400.7	1092.3	630.9	293.7	217.2	214.2	214.2	214.8	214.2	214.2
22.5°	1514.5	1428.8	1021.3	481.5	221.5	206.2	205.6	206.9	208.0	207.4	207.4
25°	1578.8	1465.5	927.7	329.8	198.3	197.0	197.6	200.1	202.6	203.2	202.6
27.5°	1671.8	1510.8	827.3	227.0	181.7	183.0	189.1	195.2	198.9	199.5	199.5
30°	1776.4	1561.0	696.4	184.2	168.3	168.3	175.6	187.2	195.2	196.5	197.0
32.5°	1911.1	1619.2	551.3	165.8	155.4	154.2	160.9	175.0	189.7	193.9	193.9
35°	2077.5	1687.7	410.0	154.2	146.3	143.2	146.9	158.5	177.4	189.7	190.9
37.5°	2272.7	1752.5	299.8	143.8	137.7	133.4	135.9	145.0	160.4	178.7	183.6
40°	2453.2	1810.1	223.9	135.2	129.1	126.1	127.9	132.2	145.0	162.2	165.2
42.5°	2650.2	1854.8	178.1	126.1	120.6	119.3	119.3	121.1	129.7	139.5	140.2
45°	2846.7	1870.7	149.3	115.0	111.3	112.6	112.0	110.8	114.4	113.2	113.2
47.5°	2986.8	1851.6	123.6	104.6	104.6	106.5	103.4	99.1	97.3	90.0	90.6
50°	3082.8	1782.5	101.6	92.4	97.3	99.8	93.6	86.9	80.2	72.2	70.4
52.5°	3122.6	1659.6	83.2	76.5	86.3	89.3	82.0	74.1	63.7	56.9	55.0
55°	3096.9	1507.7	69.1	62.4	72.8	76.5	69.1	60.0	48.3	41.0	39.8
57.5°	2983.7	1326.6	58.7	49.6	58.1	60.6	55.7	45.9	34.3	26.9	26.9
60°	2787.9	1139.4	47.8	39.2	43.5	47.1	42.2	33.0	23.3	16.5	15.3
62.5°	2390.8	925.2	38.5	30.6	30.6	33.7	29.4	23.9	14.7	8.5	8.0
65°	1726.2	634.5	30.6	22.6	22.0	22.0	18.3	15.9	8.5	3.7	2.4
67.5°	938.1	358.0	24.5	17.1	15.3	14.7	11.6	9.2	3.7	0.6	0.0
70°	369.0	137.7	18.9	11.6	9.8	9.2	6.1	4.3	2.4	0.0	0.0
71°	250.2	94.8	16.5	9.8	8.0	6.7	4.9	3.7	1.8	0.0	0.0
72.5°	143.2	58.7	12.8	7.4	6.1	4.9	3.7	2.4	1.8	0.0	0.0
75°	62.4	30.0	8.0	5.5	4.3	3.1	2.4	1.8	0.6	0.0	0.0
77.5°	31.8	16.5	5.5	4.3	2.4	1.8	1.3	0.6	0.0	0.0	0.0
80°	17.8	8.5	3.7	2.4	1.8	1.3	0.6	0.6	0.0	0.0	0.0
82.5°	9.8	4.9	1.8	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.1	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.3	0.0	0.0	0.0	0.0	0.6	0.6	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)