

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: P651871

Luminaire Tested: **GALN-SA4A-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651871
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-SA4A-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA 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: 11006.1 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

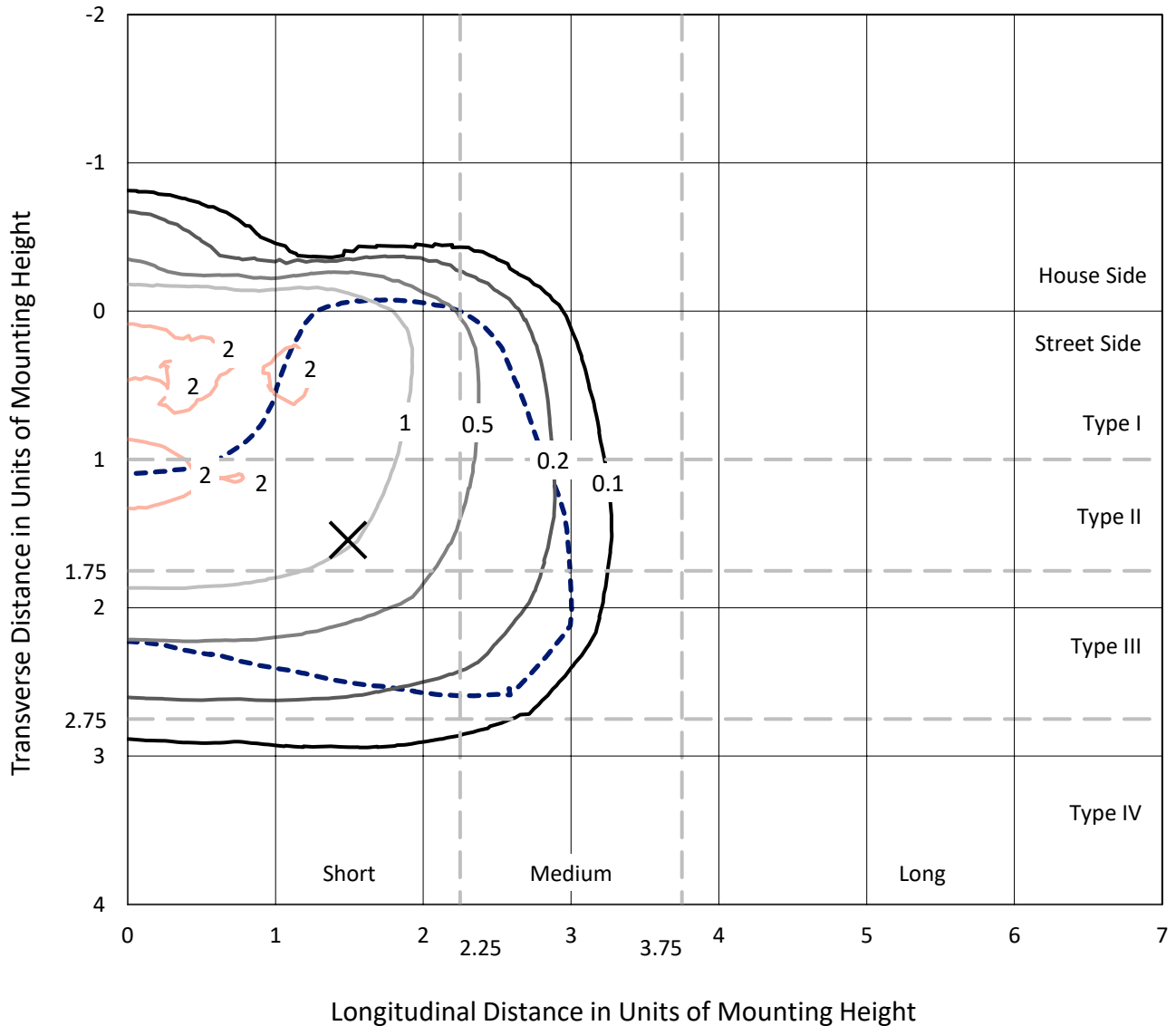
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

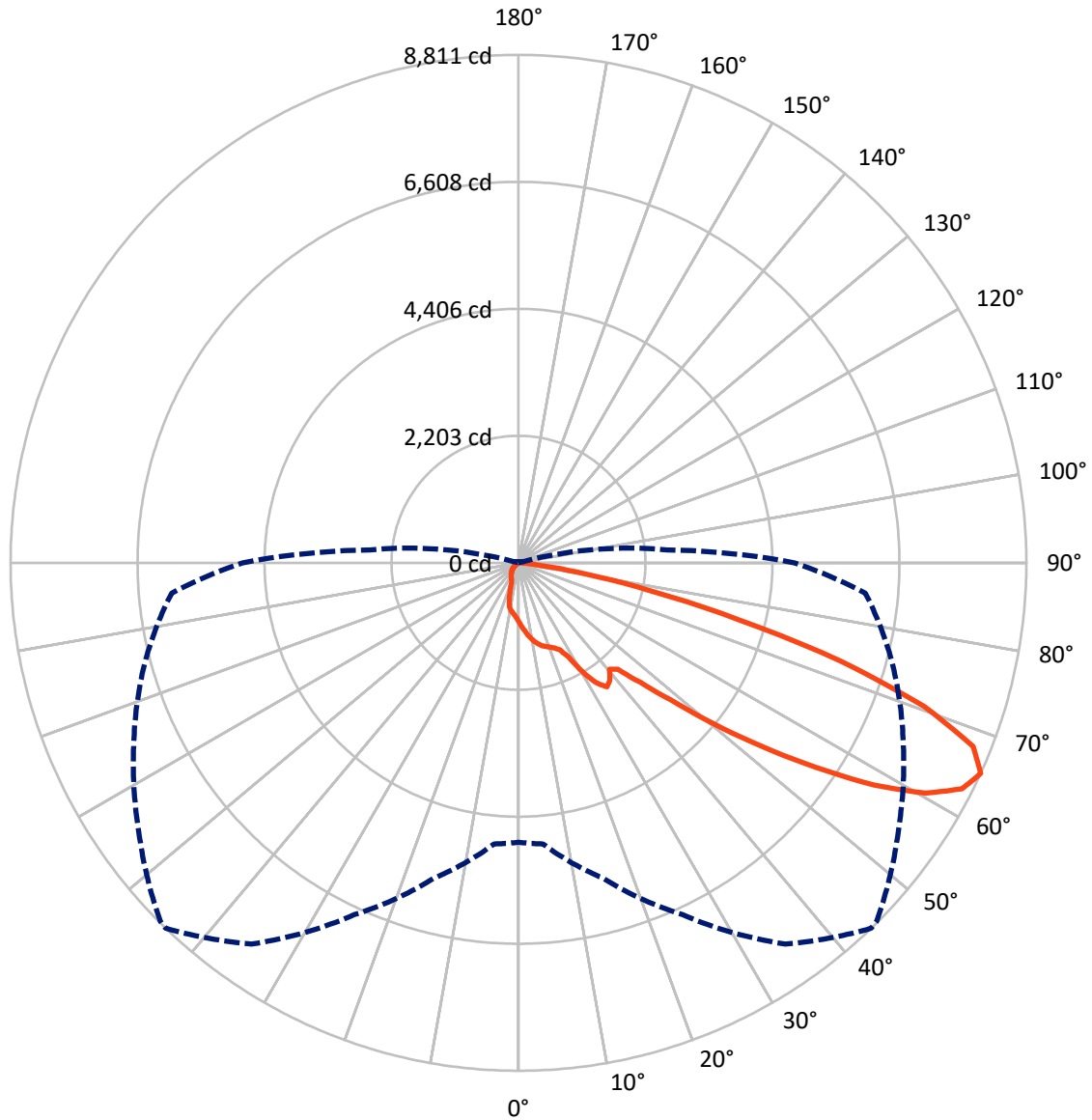
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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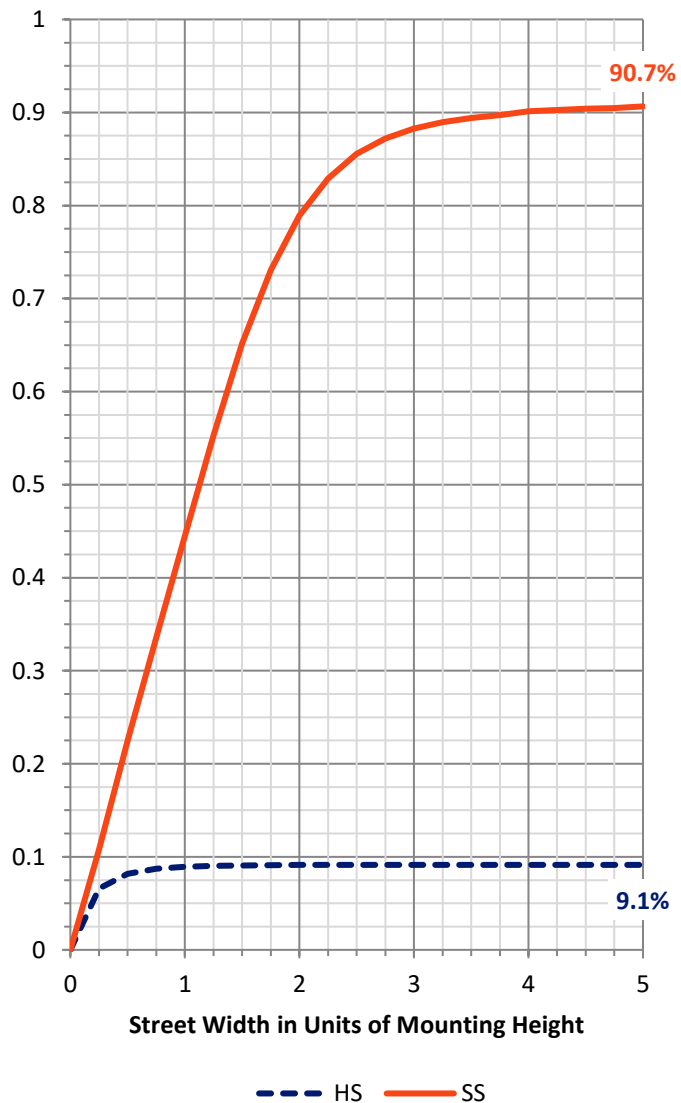
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1014.0	0.0	1014.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	9992.1	0.0	9992.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	11006.1	0.0	11006.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	0.9
10°-20°	306.6	2.8
20°-30°	519.9	4.7
30°-40°	864.5	7.9
40°-50°	1509.4	13.7
50°-60°	2948.8	26.8
60°-70°	3421.3	31.1
70°-80°	1245.9	11.3
80°-90°	87.8	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°	11006.1	100.0
0°-180°	11006.1	100.0

Coefficient of Utilization



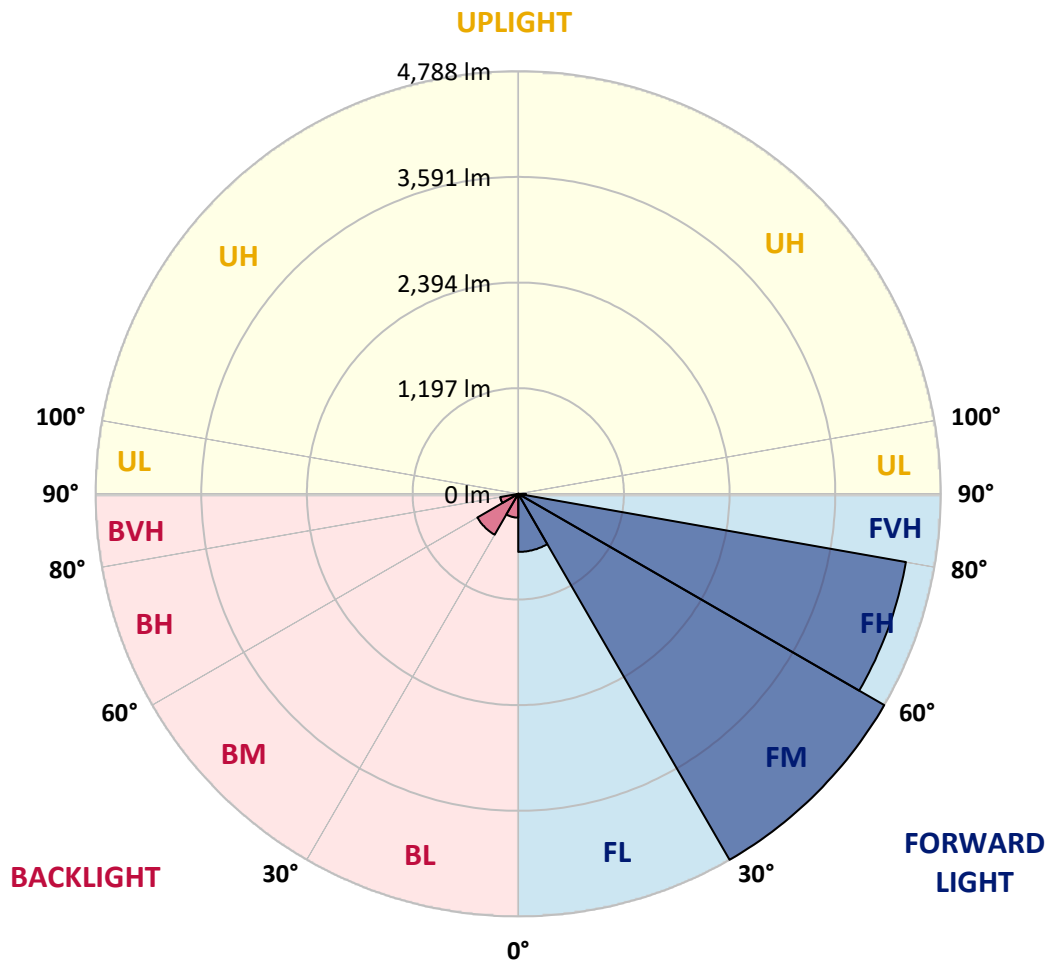
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.3	6.0			
FM (30°-60°)	4787.7	43.5			
FH (60°-80°)	4459.6	40.5			G2/5000
FVH (80°-90°)	86.6	0.8			G1/100
BL (0°-30°)	270.2	2.5	B1/500		
BM (30°-60°)	535.0	4.9	B1/1000		
BH (60°-80°)	207.7	1.9	B1/500		G1/500
BVH (80°-90°)	1.2	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°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1153.0	1148.0	1145.4	1132.0	1121.9	1109.3	1109.3	1093.3	1074.8	1054.6	1036.1
5°	1281.7	1273.3	1262.3	1250.6	1227.0	1193.4	1193.4	1159.7	1121.1	1086.6	1048.7
7.5°	1405.3	1397.7	1379.2	1356.5	1317.8	1282.5	1280.0	1231.2	1185.0	1132.8	1079.0
10°	1513.8	1507.9	1491.9	1448.2	1407.8	1361.6	1360.7	1306.1	1252.2	1188.3	1121.9
12.5°	1589.5	1590.3	1569.3	1527.3	1475.1	1431.4	1428.0	1374.2	1317.8	1248.9	1167.3
15°	1643.3	1643.3	1621.4	1574.4	1527.3	1488.6	1485.2	1438.1	1380.1	1305.2	1216.9
17.5°	1658.5	1663.5	1640.0	1597.9	1560.1	1526.4	1525.6	1486.0	1439.8	1367.5	1267.4
20°	1652.6	1657.6	1639.1	1606.3	1580.2	1560.9	1558.4	1542.4	1499.5	1431.4	1321.2
22.5°	1640.0	1645.0	1631.5	1612.2	1599.6	1605.5	1601.3	1614.7	1592.0	1509.6	1385.1
25°	1642.5	1647.5	1637.4	1626.5	1637.4	1673.6	1684.5	1742.6	1722.4	1608.8	1454.1
27.5°	1721.5	1731.6	1717.3	1722.4	1761.1	1845.2	1866.2	1966.3	1877.1	1735.0	1561.7
30°	1897.3	1890.6	1863.7	1888.0	2022.6	2200.9	2195.0	2179.0	2039.4	1880.5	1689.6
32.5°	2057.1	2051.2	2049.5	2154.6	2398.5	2485.2	2481.0	2326.2	2184.9	2047.0	1815.7
35°	2121.8	2099.1	2094.1	2348.9	2756.8	2642.4	2616.4	2386.8	2361.5	2228.6	1944.4
37.5°	2317.0	2301.0	2222.8	2380.9	2613.8	2576.0	2555.8	2491.0	2549.9	2389.3	2089.9
40°	2719.0	2674.4	2603.7	2449.0	2411.1	2427.1	2447.3	2624.8	2772.8	2608.8	2284.2
42.5°	3218.5	3208.4	3077.2	2788.8	2505.3	2527.2	2553.3	2904.0	3093.2	2939.3	2601.2
45°	3818.1	3832.4	3643.2	3302.6	2930.9	2949.4	2987.2	3316.1	3527.2	3453.1	3099.9
47.5°	4363.1	4352.2	4288.3	3934.2	3591.1	3549.9	3611.3	3845.1	4127.6	4139.4	3718.9
50°	4911.4	4969.5	4874.4	4735.7	4480.8	4394.2	4371.5	4485.9	4916.5	4860.1	4462.3
52.5°	5699.5	5729.8	5551.5	5516.2	5574.2	5293.3	5270.5	5298.3	5683.6	5490.1	5019.1
55°	6194.9	6177.2	6110.8	6386.6	6616.2	6265.5	6236.9	6125.1	6320.2	5935.0	5554.9
57.5°	6351.3	6376.5	6531.3	7030.0	7573.3	7275.6	7223.4	6905.5	6779.4	6349.6	6047.7
60°	6281.5	6327.8	6661.6	7403.4	8156.9	8112.4	8067.8	7533.8	7109.1	6696.1	6393.4
62.5°	5784.5	5849.2	6383.3	7337.0	8354.6	8632.9	8577.4	7925.7	7328.6	6864.3	6453.9
65°	4847.5	4895.5	5662.5	6734.0	8073.7	8811.2	8791.1	8048.5	7363.0	6710.4	6039.3
67.5°	3455.7	3618.8	4329.5	5675.2	7242.8	8506.8	8541.3	7901.3	7039.3	6045.2	5001.4
70°	2172.3	2283.3	2793.0	4062.9	5806.3	7463.1	7576.7	7227.6	6109.1	4712.1	3348.0
72.5°	1036.1	1118.5	1481.8	2571.8	4098.2	5871.9	5961.9	5933.3	4723.9	2968.7	1727.4
75°	461.7	492.8	707.3	1312.8	2645.8	3946.8	4179.8	4218.5	2951.9	1452.4	672.0
77.5°	235.5	236.3	331.4	635.8	1321.2	2354.8	2401.1	2536.5	1600.4	640.0	233.8
80°	125.3	133.7	175.8	300.2	685.4	1159.7	1153.9	1268.2	709.8	313.7	78.2
82.5°	56.3	62.2	99.2	157.3	334.7	439.8	474.3	518.9	304.4	200.2	34.5
85°	16.8	20.2	48.8	79.1	121.1	127.0	142.1	183.3	172.4	142.1	17.7
87.5°	2.5	2.5	20.2	21.9	17.7	22.7	23.5	26.1	55.5	52.1	9.3
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°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1026.0	1020.1	999.1	981.4	966.3	957.1	946.1	939.4	936.0	933.5	934.4
5°	1030.2	1015.9	979.8	951.2	929.3	905.8	889.8	880.5	876.3	869.6	869.6
7.5°	1053.8	1031.1	980.6	936.9	899.0	867.1	836.8	825.9	818.3	816.6	814.9
10°	1087.4	1058.8	989.9	929.3	875.5	831.7	788.9	751.0	721.6	703.9	701.4
12.5°	1129.5	1088.3	1004.2	924.3	855.3	777.9	664.4	587.9	536.6	520.6	523.1
15°	1168.1	1123.6	1018.5	920.1	818.3	645.0	516.4	428.9	402.8	400.3	401.2
17.5°	1214.4	1161.4	1035.3	914.2	716.5	492.8	383.5	359.9	365.0	373.4	372.6
20°	1262.3	1201.8	1055.5	878.8	571.9	370.9	338.9	341.4	349.0	356.6	358.3
22.5°	1313.6	1248.0	1079.0	793.9	436.5	322.9	321.3	324.6	332.2	340.6	342.3
25°	1384.3	1306.1	1096.7	682.9	330.5	298.6	301.9	307.8	314.5	323.8	325.5
27.5°	1475.1	1384.3	1105.9	538.2	285.9	276.7	277.5	285.9	294.3	302.8	302.8
30°	1592.9	1477.6	1087.4	407.0	264.1	255.7	252.3	257.3	268.3	276.7	277.5
32.5°	1698.0	1565.9	1038.6	311.2	248.1	236.3	227.9	228.8	233.0	238.0	238.8
35°	1803.1	1651.7	955.4	261.6	231.3	217.8	205.2	198.5	195.1	192.6	195.1
37.5°	1937.7	1758.5	844.4	238.0	217.0	200.2	182.5	168.2	156.4	148.9	150.5
40°	2110.9	1906.5	713.2	222.9	203.5	183.3	159.8	141.3	121.1	114.4	111.0
42.5°	2396.8	2131.1	575.2	210.2	190.1	165.7	136.2	111.0	92.5	85.8	87.5
45°	2848.5	2414.5	443.2	196.8	176.6	146.3	114.4	87.5	72.3	69.0	70.6
47.5°	3447.3	2781.2	341.4	181.7	159.8	125.3	90.0	69.0	59.7	58.9	58.0
50°	4010.7	3122.6	285.1	164.8	139.6	104.3	74.0	58.0	52.1	51.3	51.3
52.5°	4520.4	3367.4	232.1	145.5	117.7	85.8	62.2	51.3	46.3	43.7	43.7
55°	4973.7	3527.2	188.4	121.9	92.5	68.1	53.8	46.3	40.4	37.0	36.2
57.5°	5316.0	3546.5	141.3	97.6	69.0	53.0	46.3	40.4	33.6	29.4	27.8
60°	5462.4	3379.1	104.3	74.0	51.3	42.0	37.0	32.8	25.2	21.0	20.2
62.5°	5315.1	3053.7	77.4	56.3	39.5	31.1	26.1	24.4	17.7	12.6	11.8
65°	4787.8	2583.6	61.4	42.9	29.4	22.7	16.8	16.0	10.9	5.9	5.0
67.5°	3835.8	2023.4	48.8	32.0	21.0	15.1	10.9	10.1	5.9	1.7	1.7
70°	2494.4	1293.5	39.5	23.5	13.5	10.1	6.7	5.0	3.4	0.8	0.0
72.5°	1233.7	604.7	32.0	18.5	9.3	5.0	2.5	1.7	2.5	0.0	0.0
75°	478.5	215.3	23.5	12.6	5.0	2.5	1.7	0.0	0.8	0.0	0.0
77.5°	158.9	71.5	14.3	6.7	3.4	1.7	0.0	0.0	0.0	0.0	0.0
80°	58.9	27.8	7.6	4.2	1.7	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	23.5	10.9	5.0	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.8	6.7	3.4	2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	5.0	3.4	2.5	1.7	0.8	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)