

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: P650761

Luminaire Tested: **GALN-SA2C-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7100.6 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

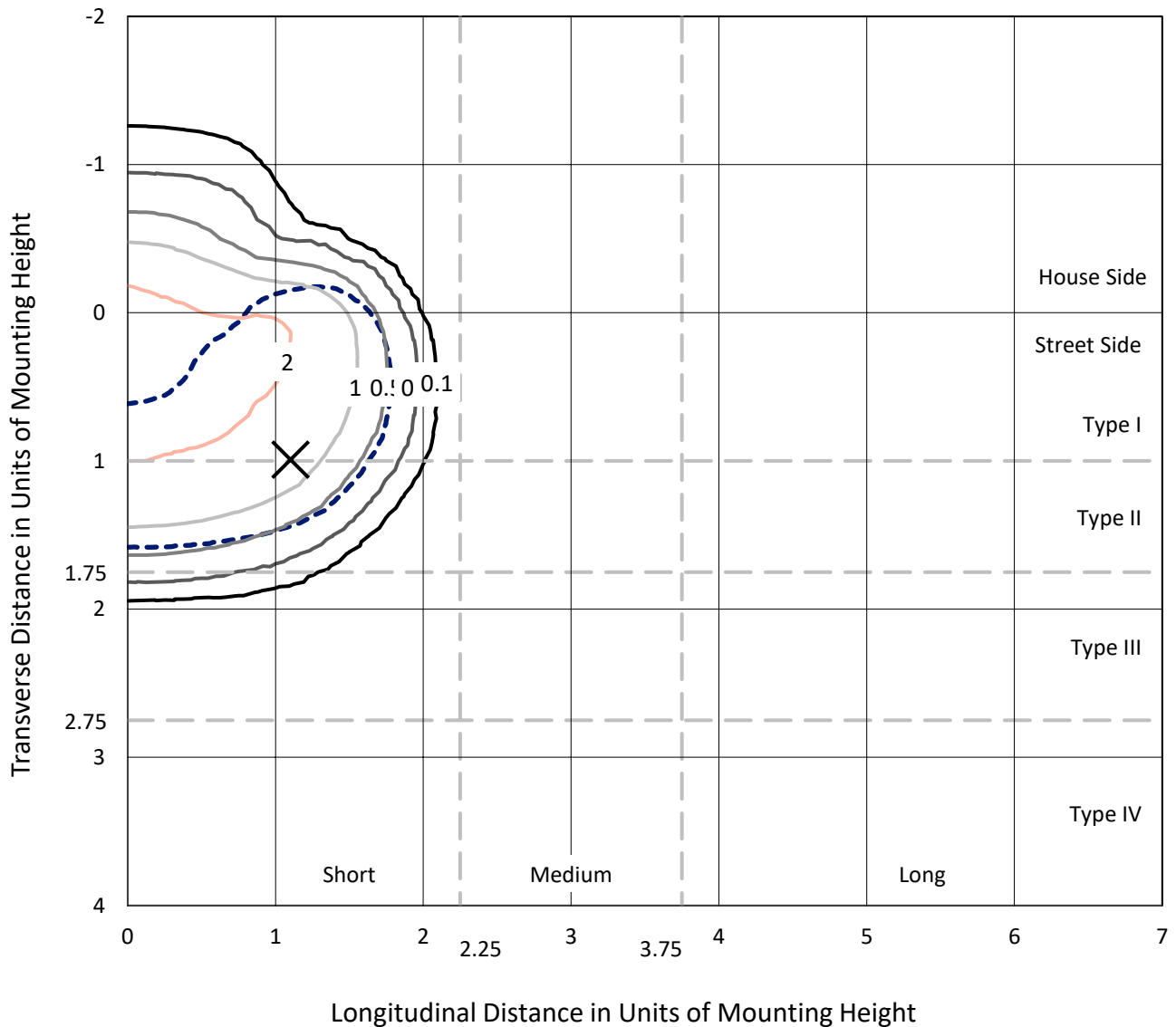
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650761
 CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

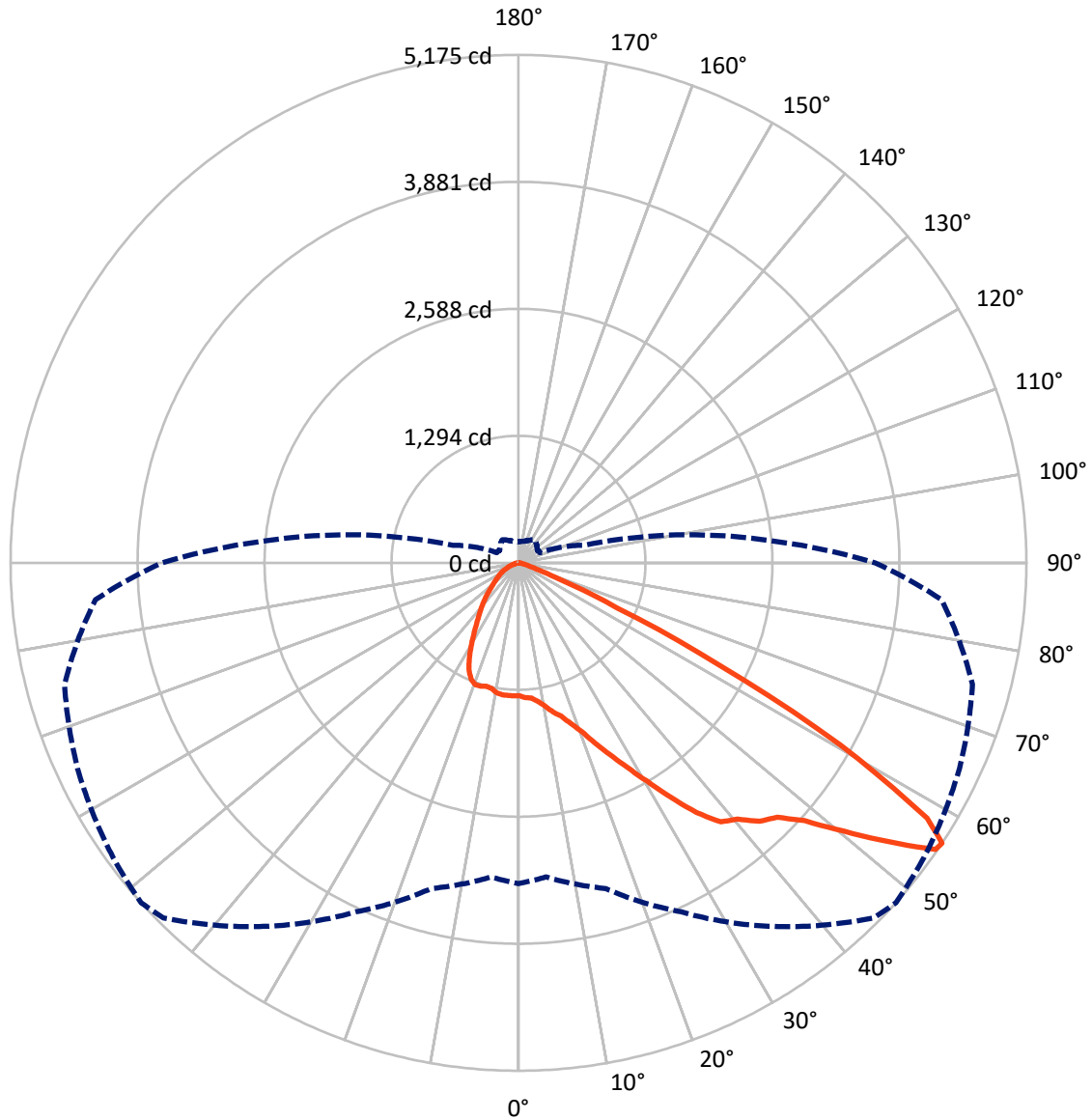
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

REPORT NUMBER: P650761
CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P650761
 CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSBK

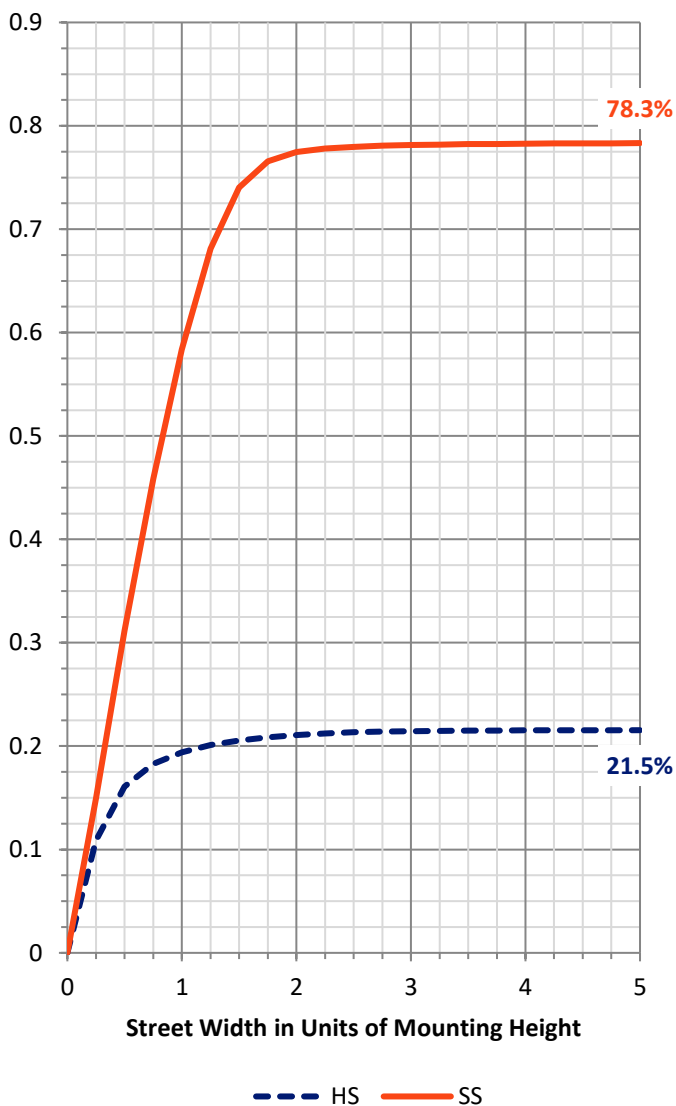
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1544.2	0.0	1544.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5556.3	0.0	5556.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	7100.6	0.0	7100.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.9
10°-20°	422.2	5.9
20°-30°	765.8	10.8
30°-40°	1202.9	16.9
40°-50°	1754.8	24.7
50°-60°	2114.2	29.8
60°-70°	619.0	8.7
70°-80°	78.5	1.1
80°-90°	11.0	0.2
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°	7100.6	100.0
0°-180°	7100.6	100.0

Coefficient of Utilization



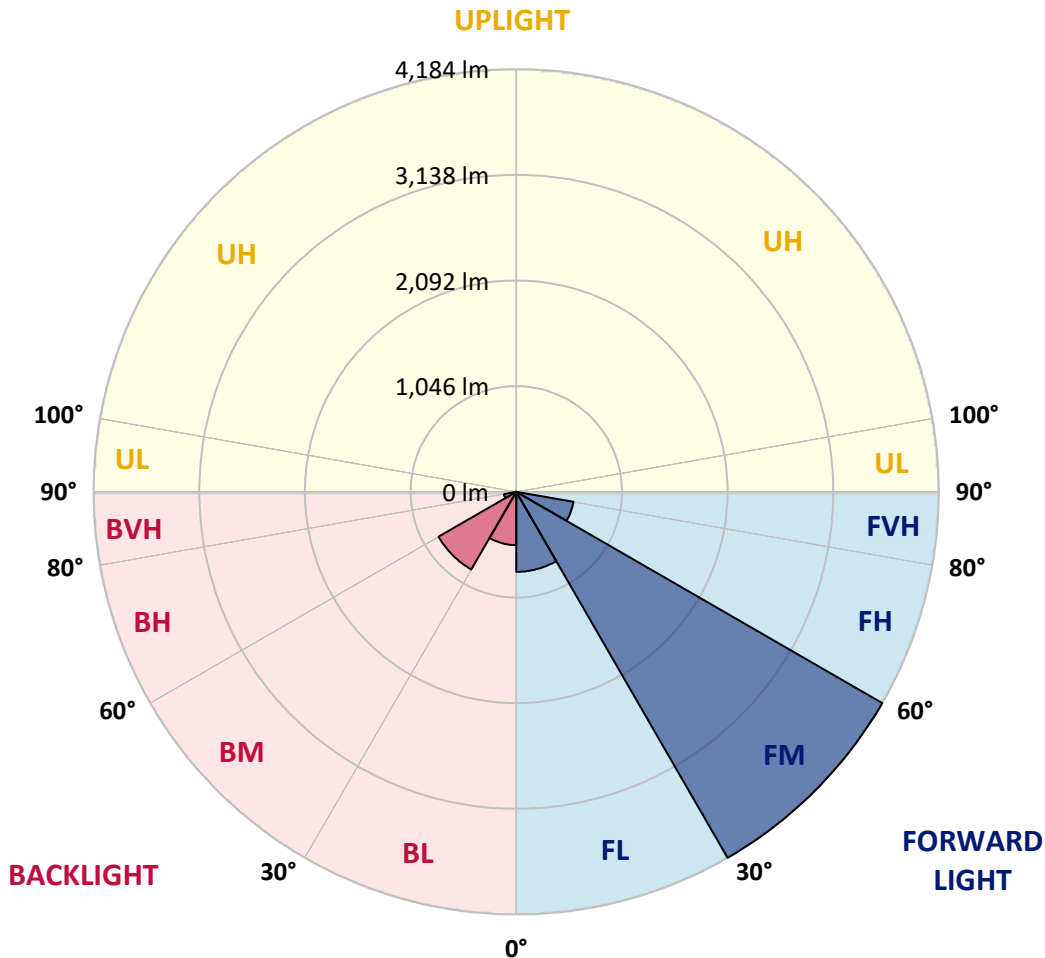
REPORT NUMBER: P650761
 CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.3	11.2			
FM (30°-60°)	4183.7	58.9			
FH (60°-80°)	574.8	8.1			G0/660
FVH (80°-90°)	5.5	0.1			G0/10
BL (0°-30°)	527.8	7.4	B2/1000		
BM (30°-60°)	888.2	12.5	B1/1000		
BH (60°-80°)	122.7	1.7	B1/500		G1/500
BVH (80°-90°)	5.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P650761

CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2
2.5°	1380.8	1374.3	1374.3	1363.9	1375.6	1370.4	1374.3	1361.4	1374.3	1354.9	1370.4
5°	1387.2	1388.5	1383.4	1389.8	1389.8	1397.6	1384.6	1396.3	1402.8	1388.5	1382.1
7.5°	1420.9	1423.5	1422.1	1417.0	1427.3	1426.0	1424.7	1415.7	1418.3	1413.1	1405.3
10°	1486.8	1485.5	1491.9	1479.1	1471.2	1480.3	1482.9	1468.7	1458.4	1454.5	1429.9
12.5°	1582.4	1567.0	1557.9	1545.0	1548.9	1535.9	1559.2	1534.7	1529.4	1506.1	1481.6
15°	1660.0	1657.4	1658.7	1638.0	1614.8	1619.9	1619.9	1607.1	1599.2	1570.8	1535.9
17.5°	1819.1	1764.8	1776.4	1750.5	1731.1	1729.9	1718.2	1720.8	1700.1	1640.6	1587.6
20°	1943.1	1919.9	1901.8	1857.9	1828.1	1837.2	1832.0	1819.1	1812.6	1735.0	1660.0
22.5°	2054.4	2062.1	2032.4	2020.8	1979.4	1983.2	1993.6	1982.0	1932.8	1852.6	1741.5
25°	2210.8	2201.7	2161.6	2147.4	2108.6	2122.9	2163.0	2153.9	2122.9	1978.1	1804.9
27.5°	2395.7	2364.6	2372.4	2307.8	2270.3	2310.3	2358.2	2403.4	2315.5	2125.5	1879.8
30°	2526.3	2493.9	2491.4	2488.8	2479.7	2526.3	2581.9	2623.2	2552.1	2272.9	2003.9
32.5°	2590.9	2598.7	2620.6	2612.9	2691.7	2787.4	2845.6	2905.1	2815.8	2513.3	2168.1
35°	2762.9	2713.7	2762.9	2768.0	2849.5	3052.4	3126.2	3268.4	3246.3	2853.3	2368.5
37.5°	2863.7	2859.8	2866.3	2915.4	2994.3	3245.1	3349.8	3459.7	3418.3	3057.6	2618.0
40°	3030.5	3040.8	3039.5	3077.0	3163.6	3389.9	3432.5	3521.8	3525.6	3340.8	2985.2
42.5°	3298.1	3256.7	3229.5	3268.4	3389.9	3515.3	3600.7	3582.5	3710.5	3684.7	3457.1
45°	3538.6	3563.1	3523.0	3587.7	3631.6	3698.9	3696.3	3735.0	3898.0	4020.8	3812.7
47.5°	3763.5	3779.0	3798.5	3842.4	3938.1	3948.4	3926.4	3909.6	4134.6	4261.3	4088.0
50°	3898.0	3912.2	4002.7	4081.5	4260.0	4283.2	4296.2	4253.5	4406.1	4420.3	4347.9
52.5°	3861.8	3877.3	4004.0	4263.9	4548.3	4761.6	4722.8	4650.4	4641.4	4697.0	4588.3
55°	3541.1	3526.9	3701.5	4106.1	4638.8	5150.8	5155.9	5079.6	4933.6	4896.0	4552.2
56°	3268.4	3212.8	3435.1	3923.9	4522.4	5117.1	5175.3	5093.9	4956.9	4788.7	4328.5
57.5°	2677.5	2730.6	2951.6	3356.3	4120.3	4875.4	4909.0	4889.6	4786.1	4504.3	3808.8
60°	1476.5	1569.6	1764.8	2259.9	2933.5	3741.5	3768.7	3926.4	3945.8	3449.4	2620.6
62.5°	627.0	616.7	819.6	1184.3	1670.4	2258.6	2309.0	2470.7	2500.4	1988.5	1314.8
65°	254.7	269.0	371.0	596.0	883.0	1029.1	1100.2	1153.3	1251.5	821.0	484.8
67.5°	168.0	166.8	218.5	340.0	475.8	458.9	458.9	484.8	448.6	334.9	209.4
70°	120.3	124.1	156.4	235.3	296.0	219.8	210.8	201.7	228.8	221.1	169.4
72.5°	78.9	84.0	104.7	141.0	153.8	120.3	120.3	144.8	188.7	178.4	138.3
75°	51.7	53.0	64.7	81.4	76.3	62.1	68.5	97.0	137.1	131.9	98.2
77.5°	34.9	36.2	44.0	53.0	42.6	34.9	37.5	49.1	67.2	67.2	51.7
80°	13.0	14.2	18.1	16.8	19.4	24.6	27.2	33.6	40.1	40.1	34.9
82.5°	0.0	1.3	3.9	9.1	14.2	19.4	22.0	25.8	29.8	33.6	32.3
85°	0.0	1.3	3.9	6.5	10.3	11.6	13.0	9.1	7.7	7.7	6.5
87.5°	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.6	1.3	1.3
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: P650761

CATALOG NUMBER: GALN-SA2C-840-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2	1356.2
2.5°	1356.2	1354.9	1354.9	1351.1	1358.8	1354.9	1357.5	1356.2	1339.4	1352.3	1343.2
5°	1370.4	1379.5	1365.3	1362.7	1352.3	1356.2	1356.2	1343.2	1354.9	1353.6	1351.1
7.5°	1406.7	1391.1	1375.6	1360.1	1357.5	1353.6	1339.4	1334.2	1343.2	1332.9	1348.5
10°	1422.1	1424.7	1401.4	1380.8	1361.4	1334.2	1314.8	1303.2	1289.0	1304.5	1313.6
12.5°	1493.3	1467.4	1427.3	1395.0	1329.0	1302.0	1282.5	1277.3	1302.0	1307.1	1298.0
15°	1517.8	1514.0	1462.2	1389.8	1321.3	1289.0	1292.9	1282.5	1285.1	1272.2	1274.8
17.5°	1568.2	1524.3	1463.5	1373.0	1320.0	1312.2	1289.0	1247.6	1224.3	1214.0	1223.1
20°	1623.8	1581.2	1493.3	1379.5	1331.6	1311.0	1234.7	1184.3	1136.4	1110.5	1111.9
22.5°	1673.0	1619.9	1480.3	1382.1	1342.0	1256.6	1164.9	1065.3	1005.8	965.8	967.1
25°	1732.5	1657.4	1485.5	1387.2	1314.8	1170.0	1038.1	941.2	870.1	842.9	852.0
27.5°	1766.0	1680.7	1514.0	1398.8	1243.8	1047.2	905.0	814.5	773.1	760.2	758.9
30°	1866.9	1732.5	1548.9	1375.6	1124.8	915.3	783.5	727.9	687.8	676.2	678.8
32.5°	2016.9	1826.8	1594.1	1314.8	1003.2	797.7	704.6	663.2	625.7	603.8	601.1
35°	2142.3	1988.5	1642.0	1220.5	862.4	707.2	649.0	597.3	540.4	515.9	509.4
37.5°	2381.5	2170.7	1631.6	1078.2	727.9	640.0	589.5	526.2	477.1	443.5	439.6
40°	2699.5	2384.1	1581.2	905.0	628.3	580.5	526.2	465.4	404.7	376.3	373.7
42.5°	3086.0	2645.2	1489.4	729.1	528.8	521.0	471.9	402.1	347.8	327.1	328.4
45°	3400.2	2868.8	1396.3	585.7	455.1	462.8	420.2	354.2	316.7	300.0	300.0
47.5°	3679.5	3020.1	1295.5	483.5	386.5	404.7	367.2	328.4	296.0	283.2	280.6
50°	3948.4	3173.9	1194.6	391.7	329.7	347.8	343.9	312.9	287.0	271.5	272.8
52.5°	4116.4	3198.6	1066.6	320.6	288.3	309.0	321.9	293.5	265.0	256.0	253.4
55°	3910.9	2881.8	827.5	263.7	244.3	271.5	296.0	263.7	241.8	226.2	225.0
56°	3634.2	2576.7	691.6	243.0	231.4	261.1	287.0	252.1	227.6	218.5	212.0
57.5°	3077.0	2108.6	510.7	215.9	214.6	243.0	272.8	240.4	212.0	204.3	204.3
60°	1918.6	1186.8	309.0	181.0	186.2	215.9	245.7	214.6	188.7	188.7	192.7
62.5°	874.0	493.8	187.5	153.8	160.3	186.2	218.5	193.9	179.7	193.9	196.5
65°	297.4	213.4	135.7	122.8	126.7	153.8	187.5	196.5	195.2	204.3	209.4
67.5°	166.8	137.1	113.8	102.1	99.6	113.8	153.8	196.5	188.7	184.9	187.5
70°	141.0	116.4	100.8	90.5	86.6	91.8	118.9	148.7	133.1	129.3	126.7
72.5°	113.8	97.0	87.9	81.4	69.8	59.5	54.3	56.9	63.3	67.2	73.7
75°	80.1	73.7	73.7	65.9	50.5	37.5	29.8	24.6	16.8	11.6	13.0
77.5°	45.2	45.2	46.5	40.1	32.3	24.6	18.1	13.0	6.5	2.6	1.3
80°	31.0	33.6	36.2	32.3	27.2	22.0	15.5	9.1	3.9	0.0	0.0
82.5°	31.0	34.9	37.5	32.3	27.2	20.7	15.5	9.1	3.9	1.3	0.0
85°	6.5	7.7	9.1	10.3	15.5	15.5	11.6	7.7	3.9	1.3	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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)