

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: P650769

Luminaire Tested: **GALN-SA2C-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650769
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-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 8562.2 lumens
Efficiency: N/A
Efficacy: 79.3 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

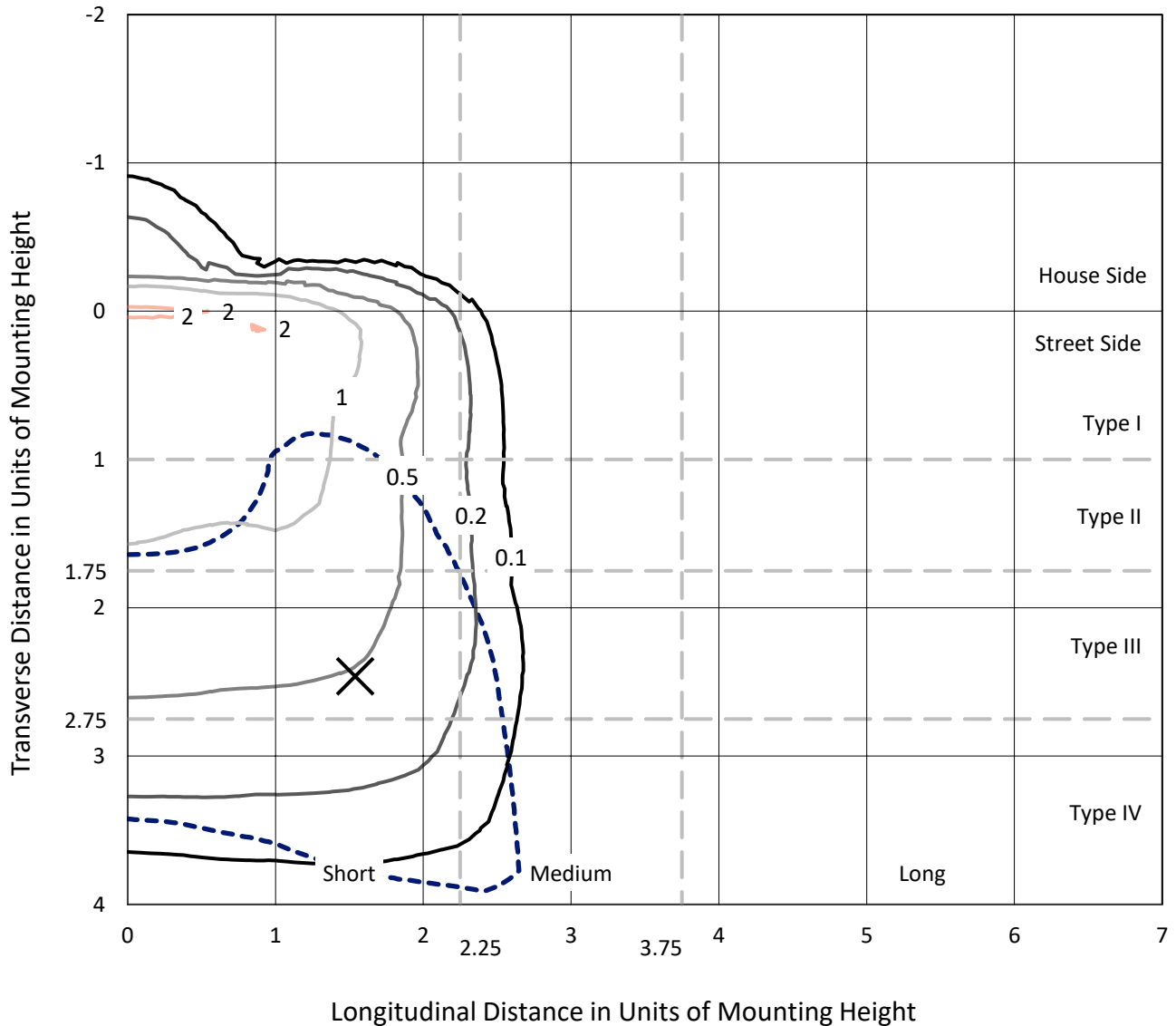




REPORT NUMBER: P650769
 CATALOG NUMBER: GALN-SA2C-840-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

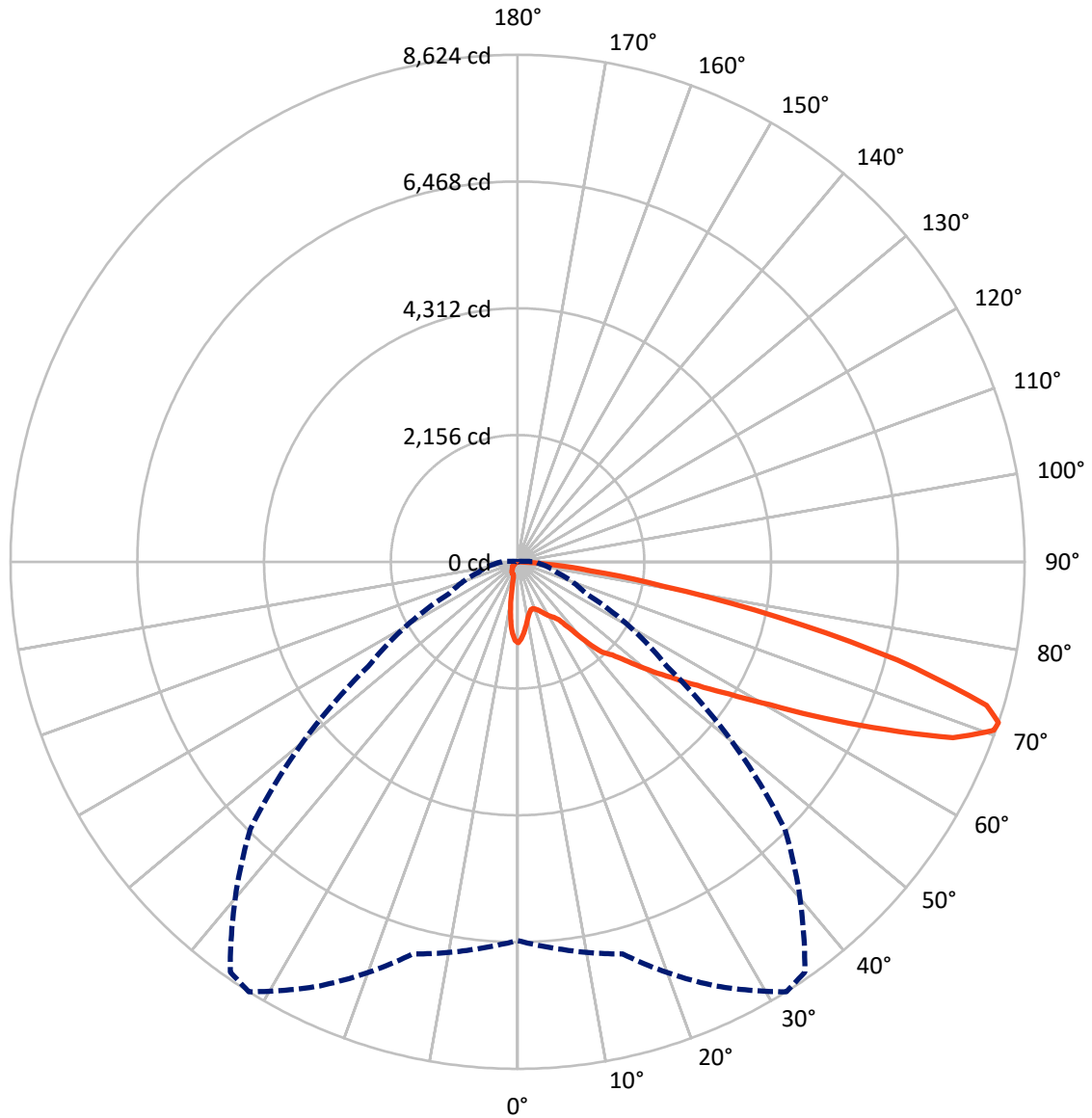
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P650769
CATALOG NUMBER: GALN-SA2C-840-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P650769
 CATALOG NUMBER: GALN-SA2C-840-U-T4FT-HSS

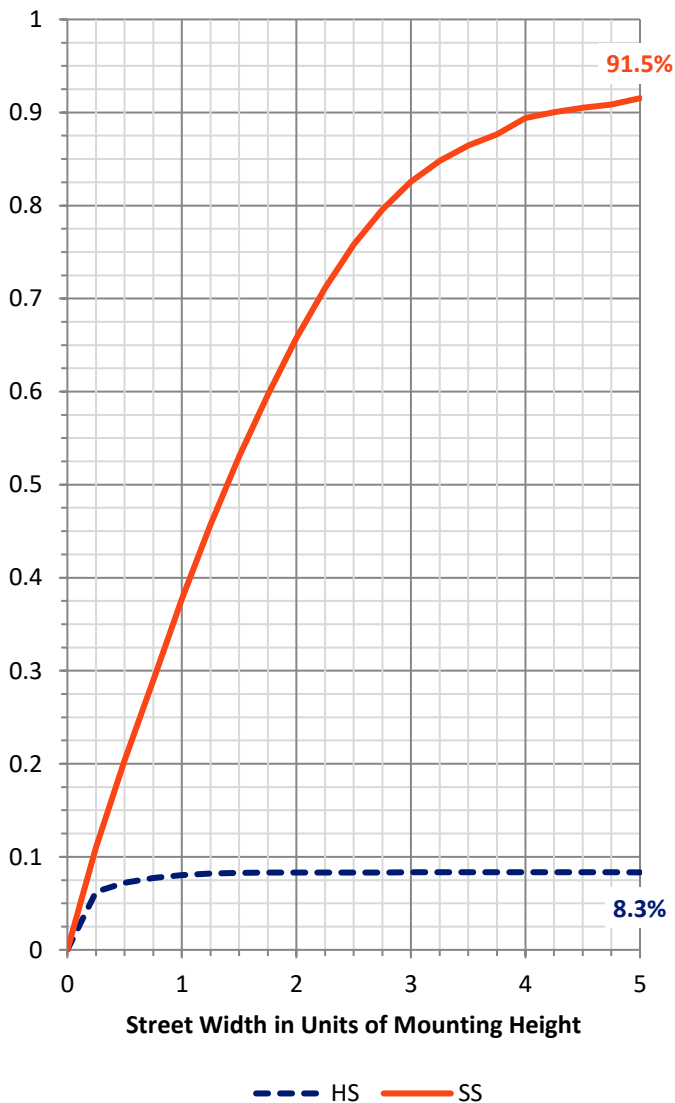
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	717.2	0.0	717.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7845.0	0.0	7845.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	8562.2	0.0	8562.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	1.3
10°-20°	243.0	2.8
20°-30°	378.0	4.4
30°-40°	629.8	7.4
40°-50°	1171.5	13.7
50°-60°	1880.9	22.0
60°-70°	2529.9	29.5
70°-80°	1501.0	17.5
80°-90°	116.0	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°	8562.2	100.0
0°-180°	8562.2	100.0

Coefficient of Utilization



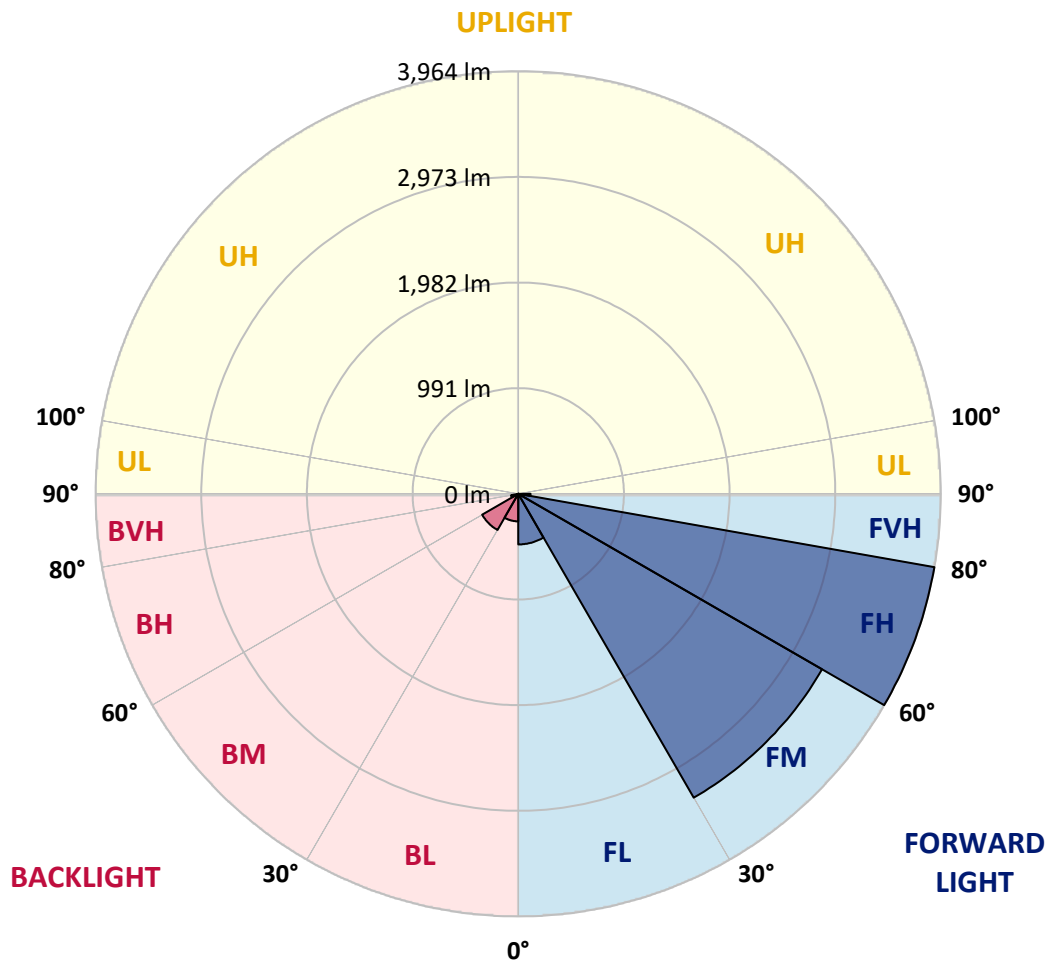
REPORT NUMBER: P650769
 CATALOG NUMBER: GALN-SA2C-840-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	474.6	5.5			
FM (30°-60°)	3291.0	38.4			
FH (60°-80°)	3963.9	46.3			G2/5000
FVH (80°-90°)	115.6	1.3			G2/225
BL (0°-30°)	258.4	3.0	B1/500		
BM (30°-60°)	391.2	4.6	B1/1000		
BH (60°-80°)	67.1	0.8	B0/110		G0/110
BVH (80°-90°)	0.5	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





REPORT NUMBER: P650769

CATALOG NUMBER: GALN-SA2C-840-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0
2.5°	1277.1	1290.2	1288.2	1292.8	1304.0	1308.6	1321.0	1334.8	1353.9	1367.0	1375.6
5°	1143.6	1153.5	1154.8	1177.8	1189.0	1201.5	1238.3	1278.3	1323.1	1358.6	1382.2
7.5°	1001.0	1006.3	1016.8	1047.0	1075.3	1087.7	1143.6	1213.3	1283.6	1350.0	1392.7
10°	883.3	889.3	908.3	940.5	966.8	983.2	1060.8	1148.2	1246.8	1345.4	1407.8
12.5°	816.3	819.6	826.8	855.7	889.3	907.0	990.4	1090.4	1217.3	1347.4	1433.5
15°	811.7	810.4	801.8	813.7	843.9	862.3	943.8	1050.9	1190.9	1353.9	1463.7
17.5°	836.0	832.8	812.3	812.3	837.3	852.4	924.1	1029.9	1177.8	1369.1	1506.4
20°	873.5	868.2	834.7	832.1	856.4	872.2	935.9	1031.2	1180.4	1397.3	1563.6
22.5°	920.8	914.9	864.3	865.6	891.9	907.7	970.1	1054.9	1196.8	1432.1	1624.7
25°	982.6	976.0	916.2	913.6	941.2	955.0	1020.7	1096.9	1219.9	1475.5	1704.9
27.5°	1064.7	1050.9	979.3	975.4	1004.9	1022.7	1081.9	1153.5	1260.6	1535.3	1812.7
30°	1132.4	1117.4	1049.0	1038.5	1070.0	1083.8	1144.9	1229.7	1340.8	1639.9	1961.9
32.5°	1221.1	1198.8	1118.6	1091.0	1124.6	1142.3	1236.3	1371.7	1459.7	1750.3	2139.3
35°	1421.0	1407.2	1309.3	1212.6	1210.6	1233.0	1371.0	1515.0	1582.0	1922.4	2381.2
37.5°	1706.9	1697.1	1593.2	1463.7	1426.3	1415.7	1534.7	1672.7	1777.2	2159.1	2662.5
40°	2038.8	2015.8	1920.5	1810.8	1762.1	1731.2	1727.9	1907.3	2032.2	2480.4	2955.7
42.5°	2276.8	2234.6	2119.0	2111.1	2100.6	2068.4	1975.0	2250.4	2361.5	2826.2	3269.1
45°	2526.4	2462.7	2290.5	2260.9	2257.0	2255.1	2348.3	2656.6	2720.4	3200.8	3591.2
47.5°	2720.4	2669.8	2528.5	2515.3	2531.7	2576.4	2842.0	3087.7	3074.6	3534.7	3861.4
50°	2978.7	2940.6	2783.5	2808.4	2893.2	2966.2	3398.6	3557.7	3365.8	3797.6	4057.8
52.5°	3283.6	3213.3	3067.4	3135.1	3265.2	3386.8	3989.5	3969.1	3570.2	3995.4	4204.4
55°	3547.8	3497.9	3447.9	3518.2	3712.8	3864.6	4523.2	4277.4	3718.7	4154.5	4268.8
57.5°	3994.8	3983.0	3931.7	4003.3	4239.2	4397.0	5001.0	4516.6	3814.0	4237.3	4193.2
60°	4655.9	4636.9	4541.6	4633.0	4940.5	5188.3	5441.4	4731.6	3835.7	4205.1	3975.7
62.5°	5451.2	5386.2	5304.7	5439.4	5861.3	5970.4	5856.1	4859.0	3754.9	3948.7	3451.2
65°	6194.0	6126.9	6128.9	6412.8	6872.2	6946.5	6339.8	4840.0	3518.2	3306.6	2545.5
67.5°	6762.5	6751.3	6831.4	7385.5	7986.2	7935.0	6772.3	4554.8	2817.0	2143.3	1352.6
70°	6791.3	6813.0	7043.1	7978.4	8588.3	8506.8	6735.5	3702.3	1756.2	985.9	533.0
71°	6441.7	6587.6	6905.7	7960.0	8623.8	8518.0	6425.2	3100.9	1288.2	687.5	384.5
72.5°	5489.4	5566.2	6253.8	7491.4	8343.1	8117.1	5638.6	2173.6	824.9	420.7	220.8
75°	3023.3	3212.6	4188.0	5877.2	6673.1	6474.6	3674.7	1032.6	411.4	230.0	91.3
77.5°	1439.4	1402.5	2043.4	3495.3	4524.5	4514.0	1851.5	458.8	239.9	155.8	46.0
80°	411.4	462.7	782.1	1661.6	2512.0	2539.7	711.1	221.5	166.3	121.6	23.6
82.5°	124.2	126.8	287.2	734.8	1249.5	1177.8	266.8	113.0	119.6	96.6	13.8
85°	21.7	26.9	84.8	258.9	476.5	361.5	67.0	53.9	78.9	63.7	7.9
87.5°	1.3	1.9	28.3	29.6	42.0	24.3	11.9	7.9	17.1	17.1	4.6
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: P650769

CATALOG NUMBER: GALN-SA2C-840-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0	1377.0
2.5°	1381.5	1385.5	1382.9	1377.0	1367.0	1355.3	1339.5	1326.3	1315.2	1309.3	1316.5
5°	1390.1	1395.3	1382.2	1352.6	1307.9	1259.3	1204.1	1161.3	1127.9	1117.4	1113.4
7.5°	1403.2	1406.5	1371.0	1305.3	1210.6	1095.7	995.1	910.3	844.5	824.9	795.9
10°	1420.3	1418.3	1351.3	1229.0	1062.8	889.9	734.1	618.5	531.1	499.5	496.9
12.5°	1446.6	1436.1	1326.3	1125.2	886.7	660.5	467.9	366.1	310.9	292.5	288.5
15°	1479.5	1454.5	1286.9	1003.6	678.9	426.6	288.5	257.7	250.4	249.1	247.8
17.5°	1518.3	1478.8	1235.0	854.5	477.2	276.7	241.2	240.5	241.2	239.9	239.3
20°	1570.8	1504.5	1173.2	677.6	315.5	233.3	230.0	230.0	230.7	230.0	230.0
22.5°	1626.7	1534.7	1096.9	517.2	237.9	221.5	220.8	222.2	223.5	222.8	222.8
25°	1695.7	1574.1	996.4	354.2	212.9	211.6	212.3	215.0	217.6	218.2	217.6
27.5°	1795.6	1622.7	888.6	243.8	195.2	196.5	203.1	209.7	213.6	214.3	214.3
30°	1908.0	1676.6	748.0	197.8	180.7	180.7	188.6	201.1	209.7	211.0	211.6
32.5°	2052.6	1739.1	592.1	178.1	166.9	165.6	172.8	188.0	203.8	208.3	208.3
35°	2231.3	1812.7	440.3	165.6	157.1	153.8	157.8	170.2	190.6	203.8	205.0
37.5°	2441.0	1882.3	322.0	154.5	147.8	143.3	145.9	155.8	172.2	191.9	197.2
40°	2634.9	1944.1	240.5	145.2	138.7	135.4	137.3	142.0	155.8	174.2	177.5
42.5°	2846.5	1992.2	191.2	135.4	129.5	128.2	128.2	130.1	139.4	149.9	150.5
45°	3057.5	2009.2	160.4	123.5	119.6	120.9	120.3	119.0	122.9	121.6	121.6
47.5°	3208.1	1988.8	132.8	112.4	112.4	114.4	111.1	106.5	104.5	96.6	97.3
50°	3311.2	1914.5	109.1	99.2	104.5	107.1	100.6	93.4	86.1	77.5	75.6
52.5°	3353.9	1782.5	89.4	82.2	92.7	96.0	88.1	79.6	68.4	61.1	59.1
55°	3326.3	1619.4	74.3	67.0	78.2	82.2	74.3	64.4	51.9	44.1	42.7
57.5°	3204.7	1424.9	63.1	53.2	62.4	65.1	59.8	49.3	36.8	28.9	28.9
60°	2994.5	1223.8	51.3	42.0	46.7	50.6	45.3	35.5	25.0	17.7	16.4
62.5°	2567.9	993.7	41.4	32.9	32.9	36.2	31.5	25.7	15.8	9.2	8.6
65°	1854.1	681.5	32.9	24.3	23.6	23.6	19.7	17.1	9.2	4.0	2.6
67.5°	1007.6	384.5	26.3	18.4	16.4	15.8	12.4	9.8	4.0	0.7	0.0
70°	396.4	147.8	20.4	12.4	10.5	9.8	6.6	4.6	2.6	0.0	0.0
71°	268.8	101.8	17.7	10.5	8.6	7.2	5.3	4.0	1.9	0.0	0.0
72.5°	153.8	63.1	13.8	7.9	6.6	5.3	4.0	2.6	1.9	0.0	0.0
75°	67.0	32.2	8.6	5.9	4.6	3.3	2.6	1.9	0.7	0.0	0.0
77.5°	34.1	17.7	5.9	4.6	2.6	1.9	1.3	0.7	0.0	0.0	0.0
80°	19.1	9.2	4.0	2.6	1.9	1.3	0.7	0.7	0.0	0.0	0.0
82.5°	10.5	5.3	1.9	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.6	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.3	0.0	0.0	0.0	0.0	0.7	0.7	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)