

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: P451744

Luminaire Tested: **GALN-SA2C-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7769 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

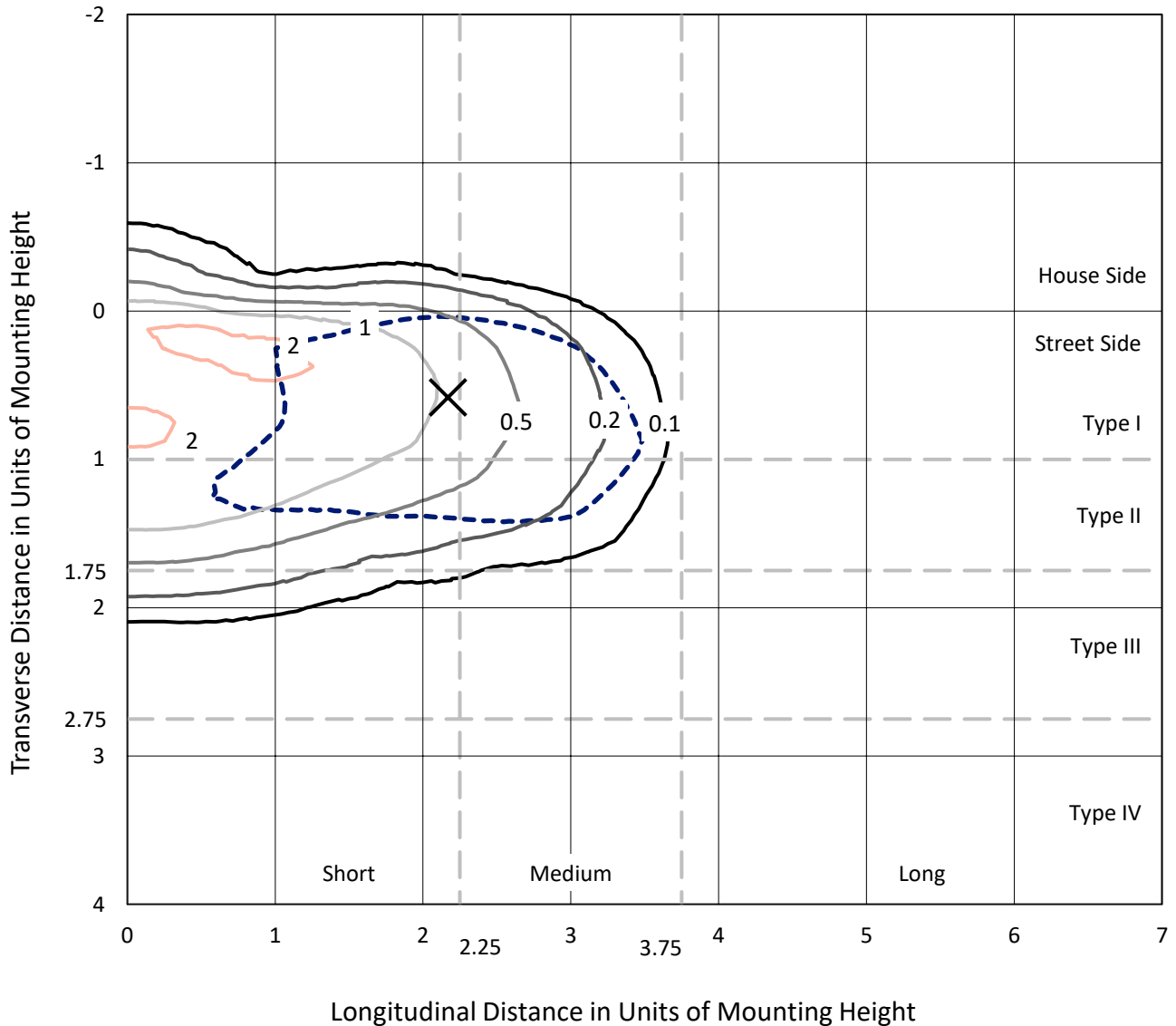
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

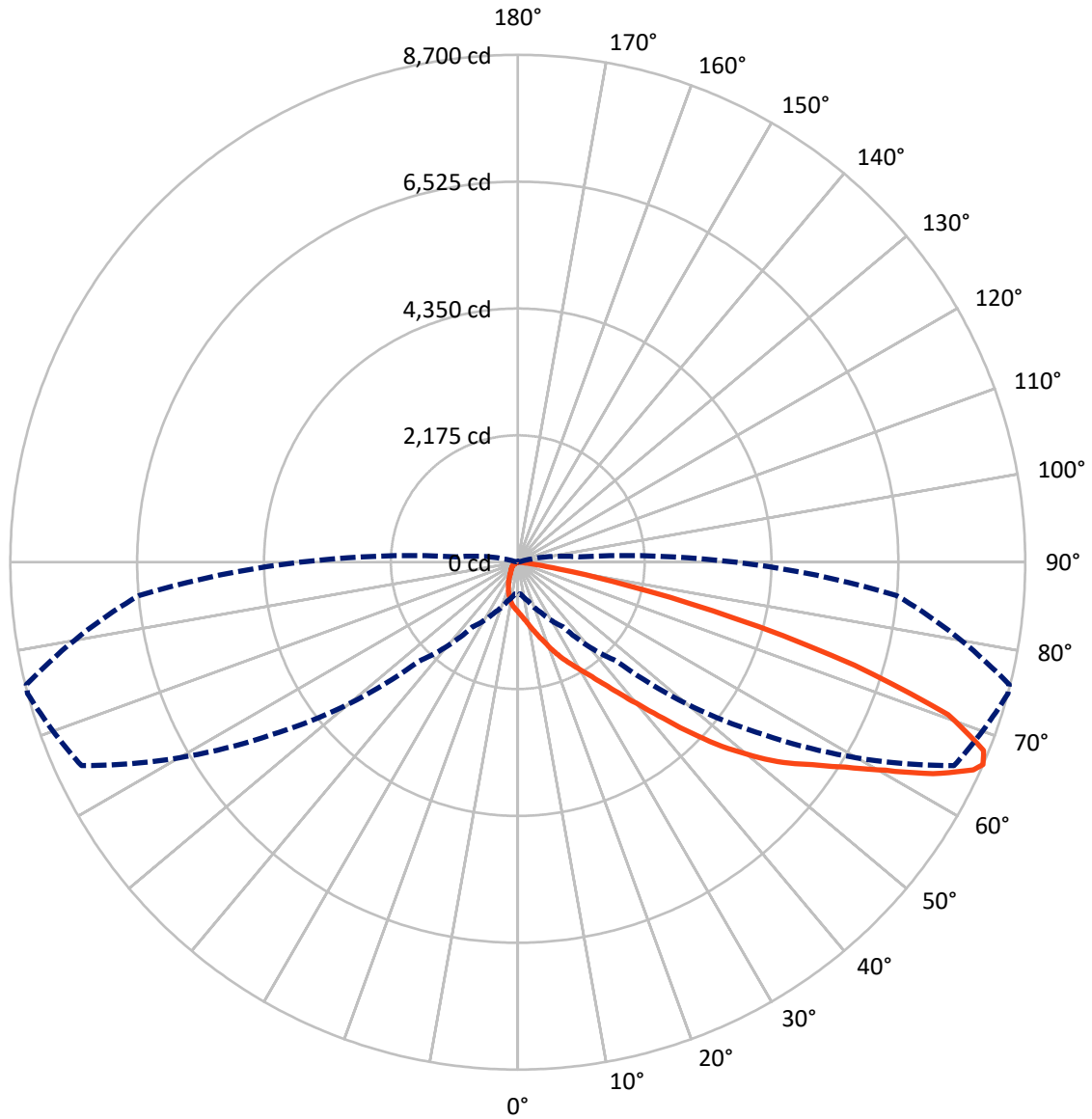
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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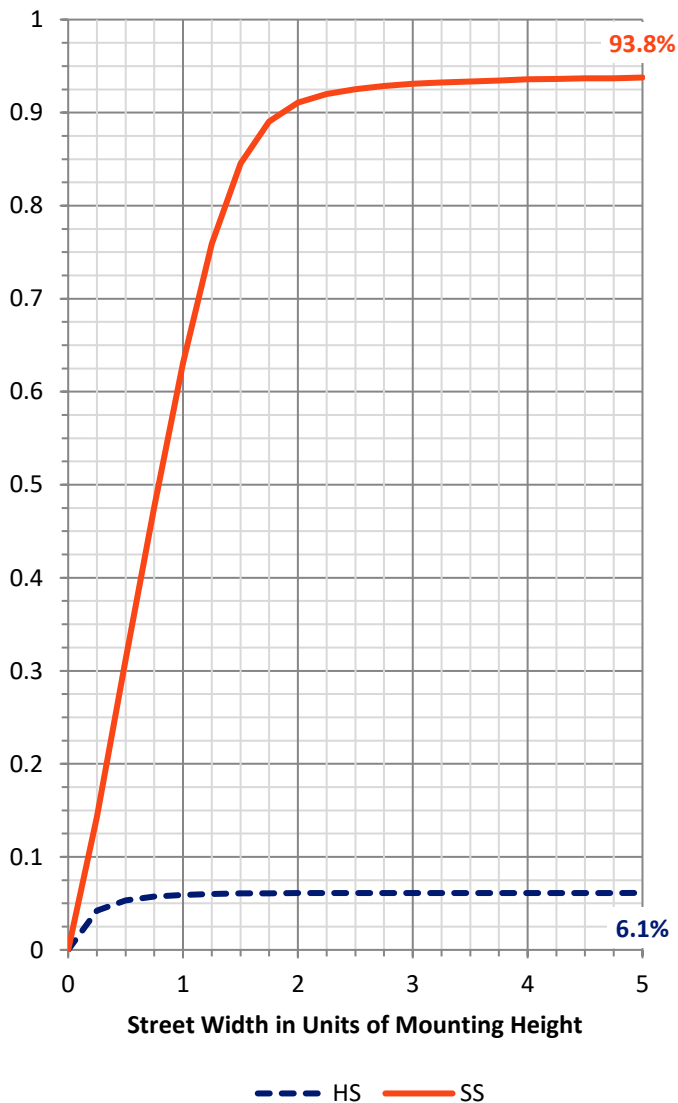
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	479.6	0.0	479.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	7289.4	0.0	7289.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	7769.0	0.0	7769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	1.1
10°-20°	241.2	3.1
20°-30°	416.5	5.4
30°-40°	751.2	9.7
40°-50°	1357.1	17.5
50°-60°	2115.7	27.2
60°-70°	2009.8	25.9
70°-80°	753.2	9.7
80°-90°	42.5	0.5
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°	7769.0	100.0
0°-180°	7769.0	100.0

Coefficient of Utilization



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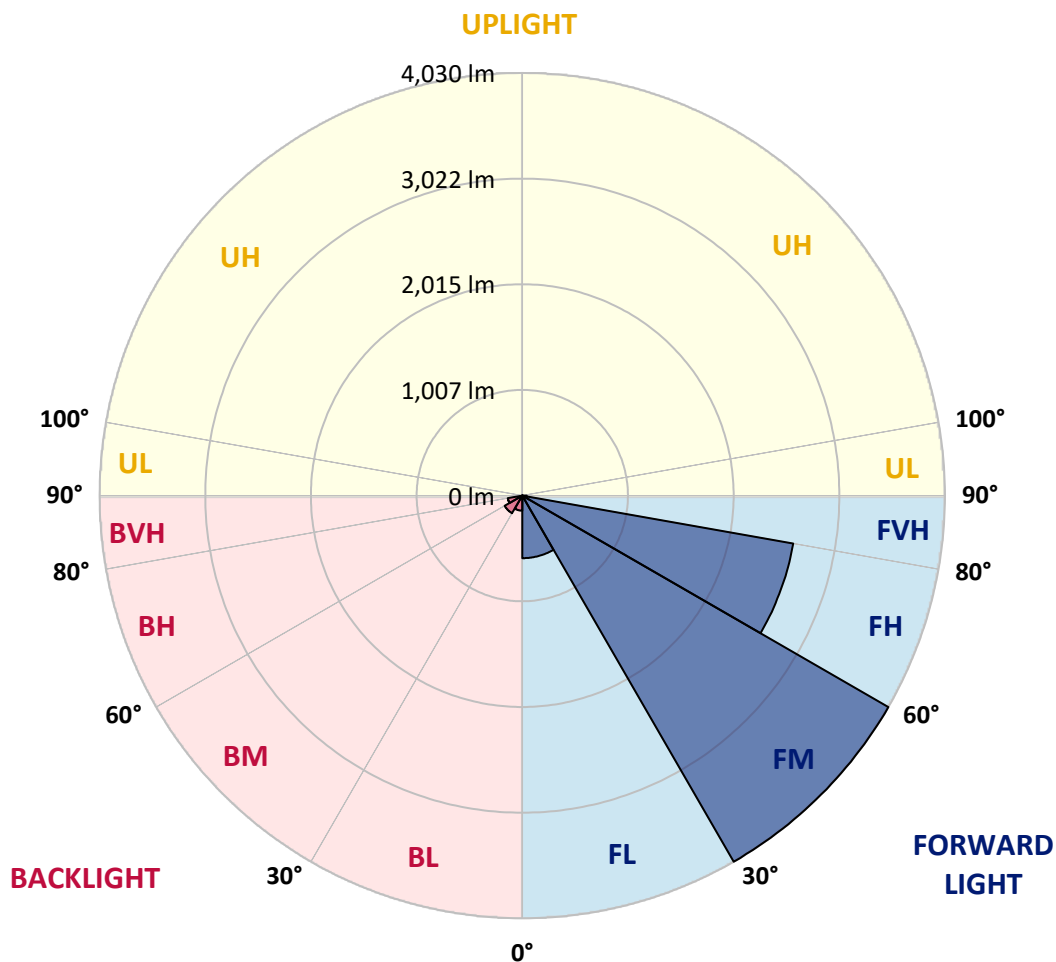
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.3	7.7			
FM (30°-60°)	4029.8	51.9			
FH (60°-80°)	2623.0	33.8			G2/5000
FVH (80°-90°)	40.3	0.5			G1/100
BL (0°-30°)	143.2	1.8	B1/500		
BM (30°-60°)	194.1	2.5	B0/220		
BH (60°-80°)	140.1	1.8	B1/500		G1/500
BVH (80°-90°)	2.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	1015.1	1002.4	1006.4	1000.7	987.5	968.0	950.7	926.0	901.3	897.3	869.7
5°	1148.9	1145.5	1140.9	1124.2	1115.0	1085.1	1049.5	1007.0	955.9	946.7	896.7
7.5°	1240.2	1238.5	1240.8	1232.2	1224.2	1197.2	1159.2	1101.2	1022.0	1016.8	933.5
10°	1270.1	1274.7	1283.3	1297.1	1309.8	1301.1	1272.4	1200.0	1107.5	1092.6	975.4
12.5°	1252.9	1258.1	1278.7	1315.5	1356.3	1379.8	1368.3	1315.5	1198.3	1186.2	1022.5
15°	1208.7	1215.0	1244.3	1301.1	1374.1	1440.7	1469.5	1431.5	1304.0	1284.5	1079.4
17.5°	1143.2	1152.4	1194.3	1269.5	1369.5	1484.4	1565.4	1552.7	1416.6	1398.2	1141.4
20°	1093.8	1100.7	1136.3	1222.4	1350.0	1508.5	1656.7	1692.3	1555.6	1524.0	1214.4
22.5°	1126.5	1128.8	1140.9	1192.6	1314.9	1514.8	1737.1	1837.7	1703.3	1675.1	1290.2
25°	1286.8	1263.8	1251.7	1240.2	1307.5	1509.1	1810.1	1989.3	1850.3	1820.4	1365.5
27.5°	1539.5	1529.2	1468.3	1386.7	1371.2	1516.6	1858.4	2132.9	1988.8	1956.6	1439.0
30°	1814.7	1796.9	1759.6	1640.1	1520.0	1569.4	1893.4	2272.5	2152.5	2110.0	1506.2
32.5°	2067.5	2078.9	2023.2	1900.3	1761.3	1682.0	1938.8	2424.8	2340.3	2287.5	1584.3
35°	2362.2	2385.1	2299.5	2181.8	2019.2	1885.4	2027.2	2596.5	2578.7	2512.1	1705.0
37.5°	2661.4	2675.2	2623.0	2457.5	2311.0	2143.9	2193.8	2808.5	2872.3	2815.4	1849.2
40°	2913.1	2932.0	2893.5	2746.5	2590.2	2443.2	2435.7	3039.4	3221.5	3162.9	2064.0
42.5°	3105.5	3119.9	3121.0	3017.0	2876.3	2809.7	2744.2	3334.1	3659.3	3591.5	2313.3
45°	3348.5	3369.2	3357.1	3286.4	3181.3	3169.3	3135.4	3690.3	4183.2	4097.6	2636.7
47.5°	3724.2	3738.0	3708.1	3624.8	3518.0	3536.9	3516.8	4089.5	4717.4	4643.9	2971.6
50°	3985.0	4008.0	4050.5	4083.8	4006.2	3936.2	3876.4	4462.4	5224.7	5158.6	3314.0
52.5°	3982.1	4020.0	4154.4	4322.2	4491.7	4470.4	4298.6	4874.2	5708.9	5627.3	3635.7
55°	3713.8	3787.4	3985.0	4282.6	4751.9	4985.7	4907.6	5351.0	6127.1	6072.0	4008.5
57.5°	3160.1	3204.9	3479.5	3895.4	4606.5	5228.1	5613.0	5997.3	6628.6	6602.8	4587.6
60°	2125.5	2145.6	2498.9	3013.0	3921.8	4986.3	6130.0	6779.1	7246.2	7233.5	5263.7
62.5°	1217.8	1226.5	1482.7	1916.4	2790.7	4225.7	6173.7	7743.6	7986.6	7993.5	6046.1
65°	655.5	660.0	866.9	1124.8	1698.1	3011.9	5551.5	8272.1	8585.2	8598.4	6531.0
66°	565.8	544.0	689.9	958.8	1351.1	2397.2	5158.0	8253.2	8700.1	8685.7	6513.7
67.5°	430.3	449.8	550.9	737.0	1001.3	1704.4	4258.4	7886.1	8612.8	8568.0	6248.9
70°	307.9	315.9	392.4	525.6	681.9	935.2	2721.2	6549.9	7828.1	7767.8	5444.1
72.5°	198.8	207.4	278.0	380.3	492.9	510.7	1523.5	4732.3	6035.2	6026.6	4099.9
75°	141.9	149.9	183.8	272.3	370.5	315.9	733.6	3189.4	3836.8	3810.9	2536.2
77.5°	102.8	106.8	122.9	178.1	264.8	226.3	340.1	1703.3	1910.1	2000.2	1120.8
80°	59.2	62.6	85.6	108.6	179.2	154.5	162.6	683.6	704.9	671.0	350.4
82.5°	29.3	33.3	51.1	74.1	112.0	104.0	74.7	205.7	217.1	211.4	88.5
85°	6.9	8.6	28.7	48.8	54.6	46.5	36.2	60.3	74.7	73.0	33.9
87.5°	0.6	1.1	10.3	8.6	9.2	15.5	12.6	15.5	24.1	22.4	12.1
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°	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6	849.6
2.5°	857.1	846.2	814.6	783.6	757.7	730.7	706.0	691.6	685.9	679.6	682.5
5°	869.1	842.7	779.0	723.8	669.8	623.9	587.1	563.5	552.0	550.3	547.5
7.5°	885.2	839.9	741.0	654.9	584.2	533.1	491.2	457.3	446.9	437.7	430.3
10°	904.8	834.7	693.9	582.5	507.2	442.9	387.8	347.5	326.9	321.1	325.1
12.5°	925.4	824.9	644.5	515.9	429.1	347.0	295.8	275.7	270.0	267.7	268.3
15°	946.1	812.9	592.8	451.5	341.8	276.9	253.3	248.2	245.9	244.7	243.6
17.5°	965.1	793.3	534.8	388.9	276.9	236.7	228.1	223.5	218.9	217.1	214.3
20°	987.5	770.9	482.5	318.8	234.4	214.3	203.9	195.3	188.4	183.8	183.3
22.5°	1008.7	742.2	428.0	264.2	213.7	192.4	175.8	166.6	158.5	152.8	154.5
25°	1020.2	707.2	379.1	230.4	194.7	170.6	152.2	140.7	132.1	129.3	128.7
27.5°	1020.2	664.1	331.5	210.8	177.5	151.1	132.1	121.2	115.5	111.4	112.0
30°	1012.2	616.4	287.2	195.9	162.6	133.8	116.0	106.3	101.7	98.8	98.2
32.5°	1005.9	571.0	249.3	181.5	147.1	118.9	103.4	95.9	91.3	88.5	88.5
35°	1015.6	531.9	220.0	167.2	132.7	107.4	93.6	86.7	82.1	79.8	79.3
37.5°	1041.5	496.3	197.6	151.7	119.5	97.7	86.7	78.7	74.1	71.2	70.1
40°	1105.2	476.2	181.0	137.3	106.8	89.6	78.7	71.2	65.5	62.6	62.0
42.5°	1207.5	476.8	164.9	124.1	97.1	82.7	71.8	63.2	56.9	54.0	53.4
45°	1361.5	498.6	152.2	111.4	88.5	75.3	64.3	55.1	49.4	46.5	46.5
47.5°	1545.9	541.1	141.3	100.5	80.4	68.4	56.9	47.7	41.9	39.6	39.6
50°	1745.8	596.3	130.4	89.0	73.5	60.9	48.8	41.4	36.8	35.0	35.0
52.5°	1949.7	662.9	119.5	79.8	66.1	52.8	41.9	36.8	32.7	31.6	31.0
55°	2217.4	747.9	108.0	70.1	58.0	45.4	37.3	32.2	27.6	25.9	25.3
57.5°	2629.3	876.0	95.4	61.5	47.7	37.9	32.2	27.0	21.8	19.0	18.4
60°	3126.2	1032.3	82.1	54.0	38.5	31.0	25.9	20.7	16.1	12.6	12.1
62.5°	3591.5	1131.7	69.5	45.4	30.4	23.6	18.4	15.5	11.5	8.0	7.5
65°	3797.1	1098.4	57.4	36.8	24.1	16.7	12.1	10.9	6.9	3.4	2.9
66°	3728.8	1049.0	52.8	33.3	21.8	14.4	10.3	9.2	5.2	1.7	1.7
67.5°	3527.1	932.3	46.0	28.7	19.0	11.5	8.0	6.9	2.9	0.6	0.0
70°	3022.2	754.3	36.2	21.3	13.8	8.0	4.6	3.4	1.7	0.0	0.0
72.5°	2321.4	561.8	28.7	16.1	9.8	4.6	2.3	1.1	1.7	0.0	0.0
75°	1422.3	321.1	22.4	12.1	6.3	2.9	1.7	0.0	1.7	0.6	0.0
77.5°	631.3	144.2	14.9	8.0	4.6	2.3	1.1	0.0	1.1	0.6	0.0
80°	159.7	47.1	8.6	5.7	3.4	1.7	0.6	0.0	1.1	1.1	0.6
82.5°	43.7	17.2	6.3	4.6	2.9	1.7	0.6	0.0	1.1	1.1	1.1
85°	17.2	8.0	5.7	4.6	3.4	1.7	0.6	0.0	1.1	1.1	1.1
87.5°	8.0	5.7	5.7	5.2	4.0	1.7	0.6	0.0	1.1	0.6	1.1
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)