

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: P651800

Luminaire Tested: **GALN-SA3A-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651800  
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-SA3A-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 615mA 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: 8582.4 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

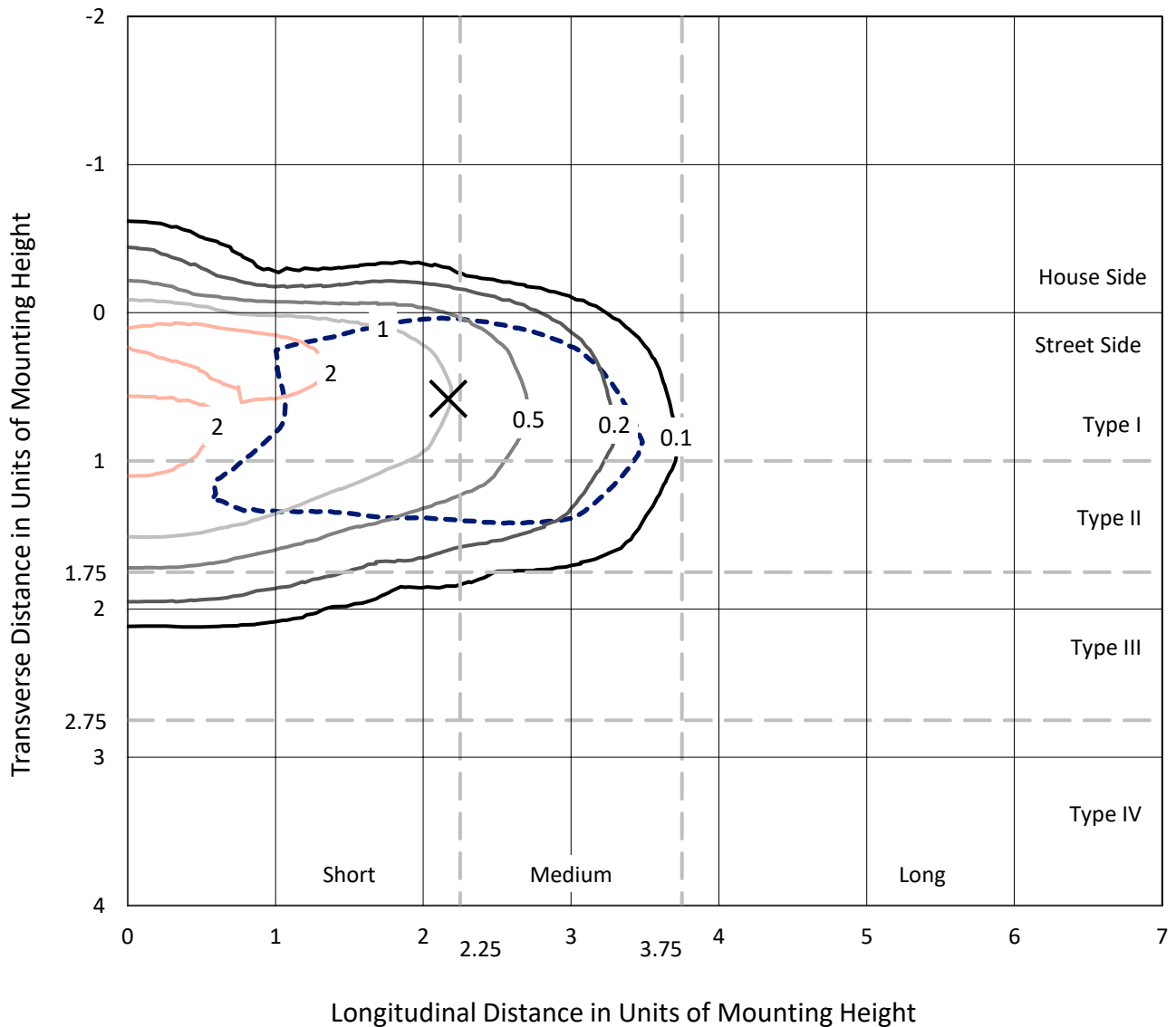
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651800  
 CATALOG NUMBER: GALN-SA3A-840-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

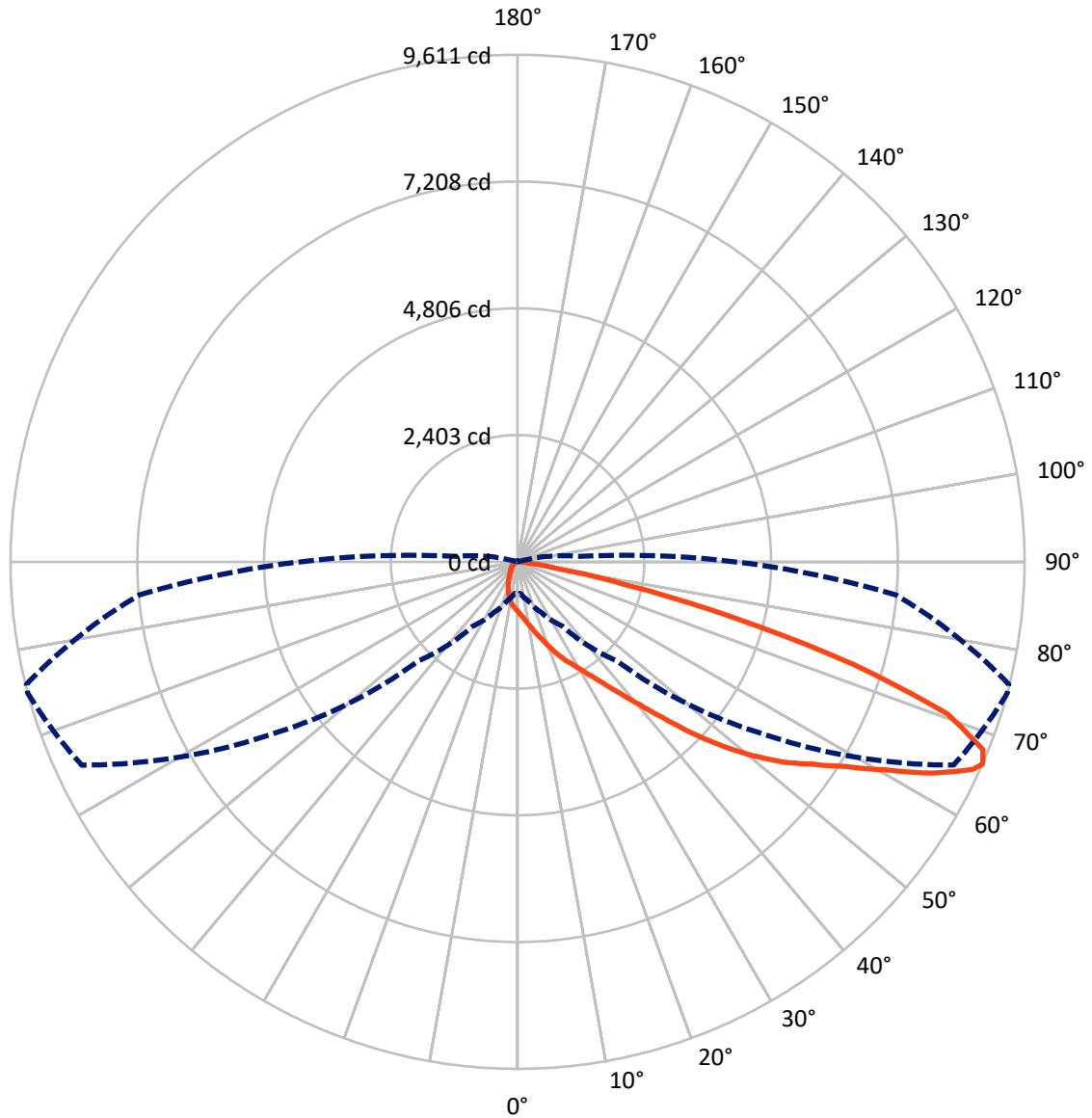
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P651800  
CATALOG NUMBER: GALN-SA3A-840-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P651800  
 CATALOG NUMBER: GALN-SA3A-840-U-T2-HSS

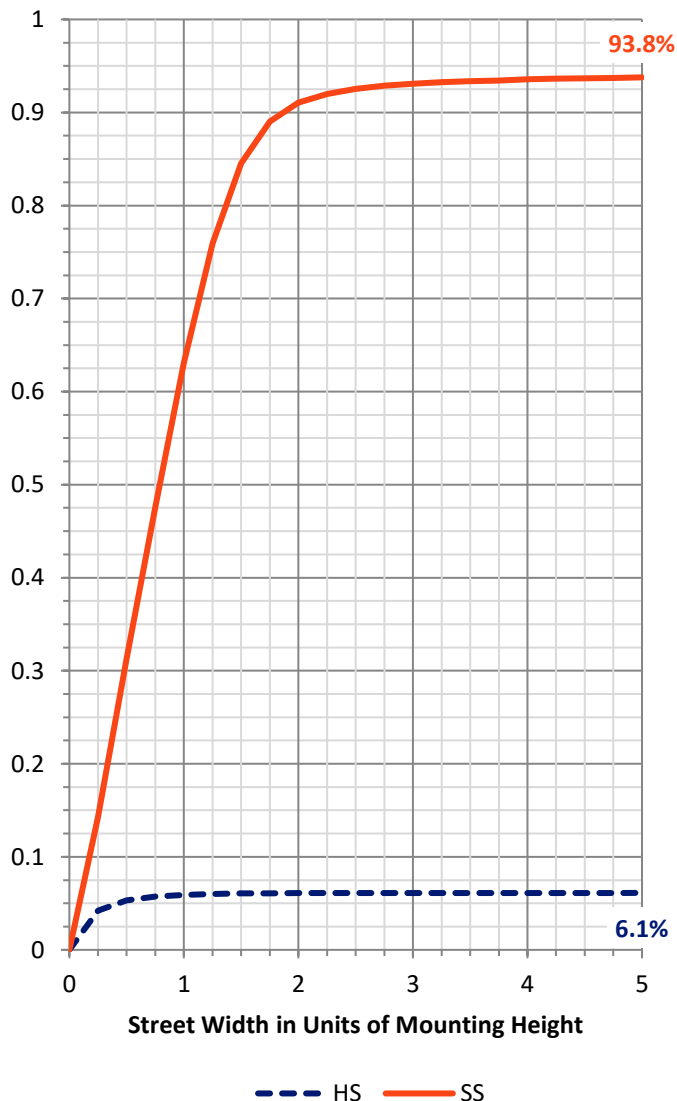
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	529.8	0.0	529.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	8052.6	0.0	8052.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	8582.4	0.0	8582.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.5	1.1
10°-20°	266.4	3.1
20°-30°	460.1	5.4
30°-40°	829.8	9.7
40°-50°	1499.1	17.5
50°-60°	2337.2	27.2
60°-70°	2220.2	25.9
70°-80°	832.1	9.7
80°-90°	46.9	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°	8582.4	100.0
0°-180°	8582.4	100.0

**Coefficient of Utilization**



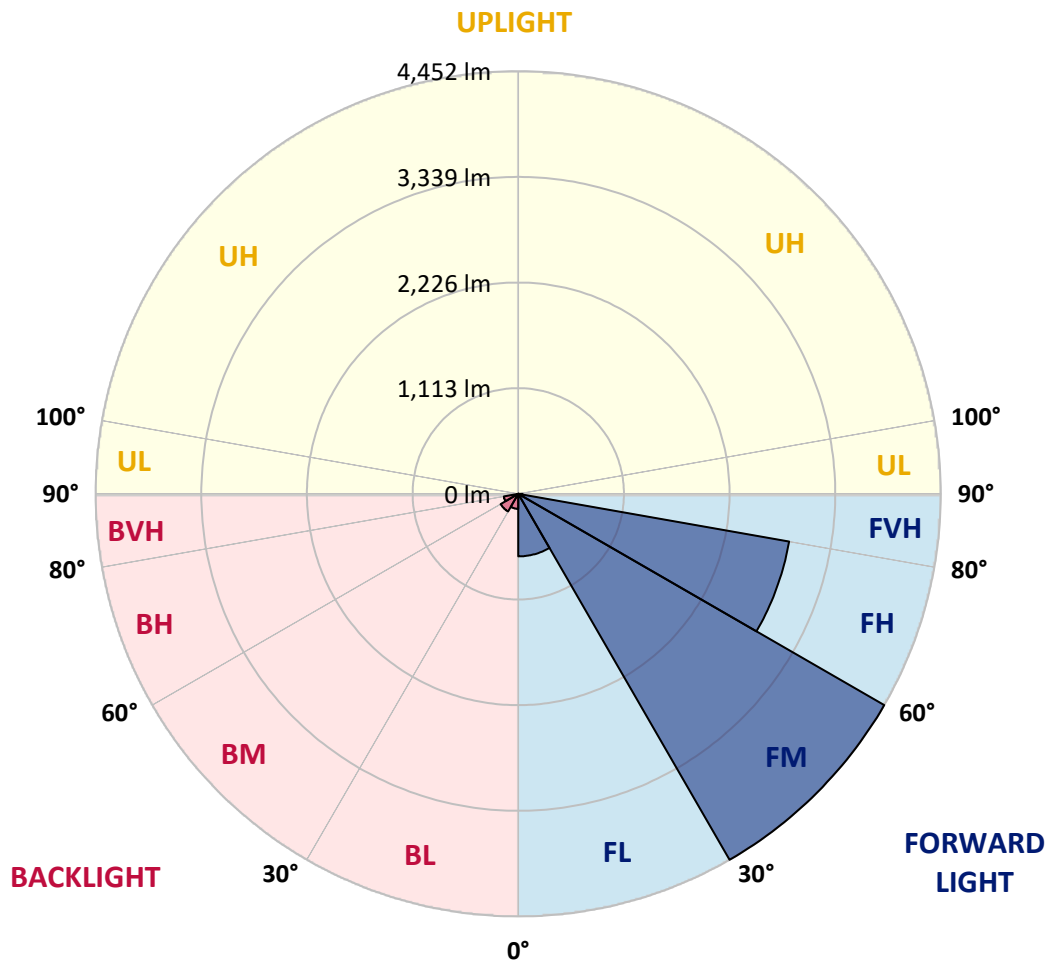
REPORT NUMBER: P651800  
 CATALOG NUMBER: GALN-SA3A-840-U-T2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.8	7.7			
FM (30°-60°)	4451.7	51.9			
FH (60°-80°)	2897.6	33.8			G2/5000
FVH (80°-90°)	44.5	0.5			G1/100
BL (0°-30°)	158.2	1.8	B1/500		
BM (30°-60°)	214.5	2.5	B0/220		
BH (60°-80°)	154.7	1.8	B1/500		G1/500
BVH (80°-90°)	2.4	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 II Short





REPORT NUMBER: P651800  
 CATALOG NUMBER: GALN-SA3A-840-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6
2.5°	1121.3	1107.3	1111.8	1105.5	1090.9	1069.3	1050.2	1023.0	995.7	991.2	960.8
5°	1269.2	1265.4	1260.3	1241.9	1231.7	1198.8	1159.4	1112.5	1056.0	1045.8	990.6
7.5°	1370.1	1368.2	1370.7	1361.2	1352.3	1322.5	1280.6	1216.5	1129.0	1123.2	1031.2
10°	1403.1	1408.2	1417.7	1432.9	1446.9	1437.4	1405.6	1325.7	1223.5	1207.0	1077.6
12.5°	1384.0	1389.8	1412.6	1453.2	1498.3	1524.3	1511.6	1453.2	1323.7	1310.4	1129.5
15°	1335.2	1342.2	1374.5	1437.4	1517.9	1591.6	1623.3	1581.4	1440.5	1418.9	1192.4
17.5°	1262.8	1273.0	1319.4	1402.5	1512.9	1639.8	1729.3	1715.3	1564.9	1544.6	1260.9
20°	1208.3	1215.9	1255.3	1350.4	1491.3	1666.4	1830.2	1869.5	1718.5	1683.6	1341.6
22.5°	1244.4	1247.0	1260.3	1317.4	1452.6	1673.4	1919.0	2030.1	1881.6	1850.5	1425.3
25°	1421.5	1396.1	1382.8	1370.1	1444.3	1667.1	1999.6	2197.6	2044.1	2011.1	1508.4
27.5°	1700.8	1689.3	1622.0	1531.9	1514.8	1675.4	2053.0	2356.2	2196.9	2161.5	1589.7
30°	2004.7	1985.0	1943.8	1811.8	1679.1	1733.7	2091.7	2510.5	2377.8	2330.9	1663.9
32.5°	2283.9	2296.6	2235.0	2099.2	1945.7	1858.1	2141.8	2678.7	2585.3	2527.0	1750.2
35°	2609.5	2634.9	2540.3	2410.2	2230.6	2082.7	2239.5	2868.4	2848.7	2775.1	1883.5
37.5°	2940.1	2955.4	2897.6	2714.8	2553.0	2368.3	2423.5	3102.5	3173.0	3110.2	2042.8
40°	3218.1	3239.0	3196.5	3034.0	2861.4	2698.9	2690.7	3357.7	3558.9	3494.1	2280.1
42.5°	3430.6	3446.5	3447.8	3332.9	3177.5	3103.8	3031.5	3683.2	4042.4	3967.5	2555.5
45°	3699.1	3721.9	3708.6	3630.5	3514.4	3501.1	3463.7	4076.7	4621.1	4526.6	2912.8
47.5°	4114.1	4129.3	4096.3	4004.3	3886.3	3907.2	3885.0	4517.7	5211.3	5130.1	3282.8
50°	4402.2	4427.6	4474.5	4511.4	4425.7	4348.3	4282.3	4929.5	5771.7	5698.7	3661.0
52.5°	4399.0	4440.9	4589.4	4774.7	4961.9	4938.4	4748.7	5384.6	6306.7	6216.5	4016.4
55°	4102.7	4183.9	4402.2	4731.0	5249.4	5507.7	5421.3	5911.3	6768.6	6707.7	4428.2
57.5°	3490.9	3540.4	3843.8	4303.2	5088.8	5775.5	6200.7	6625.2	7322.7	7294.1	5067.9
60°	2348.0	2370.2	2760.5	3328.5	4332.4	5508.3	6771.8	7488.9	8004.8	7990.8	5814.8
62.5°	1345.3	1354.9	1637.9	2117.0	3082.9	4668.1	6820.0	8554.4	8822.8	8830.4	6679.1
65°	724.1	729.1	957.6	1242.6	1875.9	3327.2	6132.7	9138.2	9484.0	9498.7	7214.8
66°	625.1	601.0	762.1	1059.2	1492.6	2648.1	5698.0	9117.3	9611.0	9595.1	7195.7
67.5°	475.3	496.9	608.5	814.2	1106.1	1882.8	4704.3	8711.8	9514.6	9465.0	6903.2
70°	340.2	349.0	433.5	580.6	753.3	1033.1	3006.1	7235.7	8647.7	8581.1	6014.1
72.5°	219.6	229.1	307.1	420.1	544.5	564.1	1682.9	5227.8	6667.1	6657.6	4529.1
75°	156.8	165.6	203.1	300.8	409.3	349.0	810.4	3523.3	4238.5	4210.0	2801.8
77.5°	113.6	118.1	135.8	196.7	292.6	250.0	375.7	1881.6	2110.1	2209.6	1238.1
80°	65.3	69.1	94.5	119.9	198.0	170.7	179.6	755.1	778.7	741.2	387.1
82.5°	32.4	36.8	56.5	81.8	123.7	114.9	82.5	227.2	239.9	233.5	97.7
85°	7.7	9.5	31.7	53.9	60.3	51.4	39.9	66.6	82.5	80.6	37.4
87.5°	0.7	1.3	11.4	9.5	10.2	17.2	14.0	17.2	26.7	24.7	13.3
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: P651800  
 CATALOG NUMBER: GALN-SA3A-840-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6	938.6
2.5°	946.8	934.8	899.9	865.6	837.0	807.2	779.9	764.0	757.7	750.8	753.9
5°	960.2	931.0	860.5	799.6	739.9	689.2	648.6	622.5	609.8	608.0	604.8
7.5°	977.9	927.8	818.6	723.4	645.4	588.9	542.6	505.1	493.8	483.6	475.3
10°	999.5	922.1	766.6	643.4	560.4	489.3	428.3	383.9	361.1	354.7	359.2
12.5°	1022.3	911.3	712.0	569.9	474.1	383.3	326.8	304.6	298.3	295.7	296.4
15°	1045.2	897.9	654.9	498.8	377.6	305.9	279.9	274.2	271.6	270.3	269.0
17.5°	1066.1	876.4	590.8	429.6	305.9	261.5	252.0	246.8	241.8	239.9	236.7
20°	1090.9	851.6	533.0	352.2	258.9	236.7	225.3	215.8	208.1	203.1	202.4
22.5°	1114.3	819.9	472.8	291.9	236.1	212.6	194.2	184.0	175.2	168.8	170.7
25°	1127.0	781.2	418.8	254.5	215.1	188.5	168.2	155.5	146.0	142.8	142.1
27.5°	1127.0	733.6	366.2	232.9	196.1	166.9	146.0	133.9	127.6	123.1	123.7
30°	1118.2	681.0	317.3	216.4	179.6	147.8	128.2	117.4	112.4	109.2	108.5
32.5°	1111.2	630.8	275.4	200.5	162.5	131.4	114.2	106.0	100.9	97.7	97.7
35°	1122.0	587.6	243.0	184.7	146.6	118.7	103.4	95.8	90.7	88.2	87.5
37.5°	1150.5	548.3	218.3	167.5	132.0	107.9	95.8	87.0	81.8	78.7	77.5
40°	1221.0	526.0	199.9	151.6	118.1	99.0	87.0	78.7	72.3	69.1	68.5
42.5°	1333.9	526.7	182.2	137.1	107.2	91.4	79.3	69.8	62.8	59.6	59.0
45°	1504.0	550.9	168.2	123.1	97.7	83.1	71.1	60.9	54.6	51.4	51.4
47.5°	1707.7	597.8	156.1	111.1	88.8	75.5	62.8	52.6	46.3	43.8	43.8
50°	1928.6	658.7	144.1	98.4	81.2	67.3	53.9	45.7	40.6	38.7	38.7
52.5°	2153.8	732.3	132.0	88.2	73.0	58.4	46.3	40.6	36.2	34.9	34.2
55°	2449.6	826.3	119.3	77.5	64.1	50.1	41.2	35.6	30.4	28.6	27.9
57.5°	2904.6	967.7	105.4	67.9	52.6	41.9	35.6	29.9	24.1	20.9	20.3
60°	3453.5	1140.4	90.7	59.6	42.6	34.2	28.6	22.9	17.7	14.0	13.3
62.5°	3967.5	1250.1	76.8	50.1	33.6	26.0	20.3	17.2	12.7	8.9	8.2
65°	4194.7	1213.3	63.5	40.6	26.7	18.4	13.3	12.0	7.7	3.8	3.2
66°	4119.2	1158.8	58.4	36.8	24.1	15.9	11.4	10.2	5.7	1.9	1.9
67.5°	3896.4	1030.0	50.8	31.7	20.9	12.7	8.9	7.7	3.2	0.7	0.0
70°	3338.6	833.3	39.9	23.5	15.2	8.9	5.0	3.8	1.9	0.0	0.0
72.5°	2564.4	620.7	31.7	17.7	10.8	5.0	2.5	1.3	1.9	0.0	0.0
75°	1571.2	354.7	24.7	13.3	7.0	3.2	1.9	0.0	1.9	0.7	0.0
77.5°	697.4	159.3	16.5	8.9	5.0	2.5	1.3	0.0	1.3	0.7	0.0
80°	176.4	52.1	9.5	6.3	3.8	1.9	0.7	0.0	1.3	1.3	0.7
82.5°	48.2	19.0	7.0	5.0	3.2	1.9	0.7	0.0	1.3	1.3	1.3
85°	19.0	8.9	6.3	5.0	3.8	1.9	0.7	0.0	1.3	1.3	1.3
87.5°	8.9	6.3	6.3	5.7	4.5	1.9	0.7	0.0	1.3	0.7	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

(END OF REPORT)