

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: P646858

Luminaire Tested: **GALN-SA3C-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12065.2 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

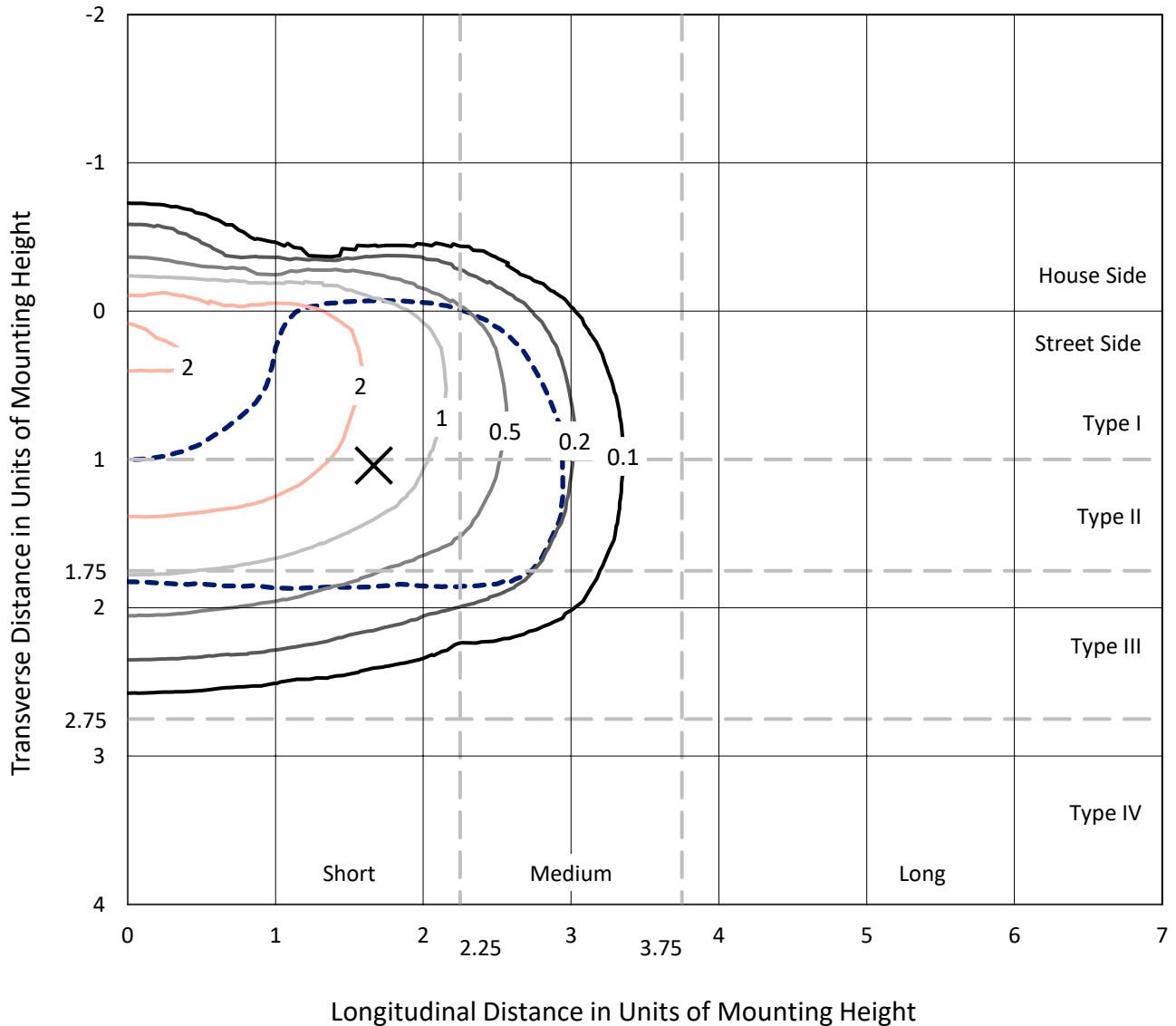
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

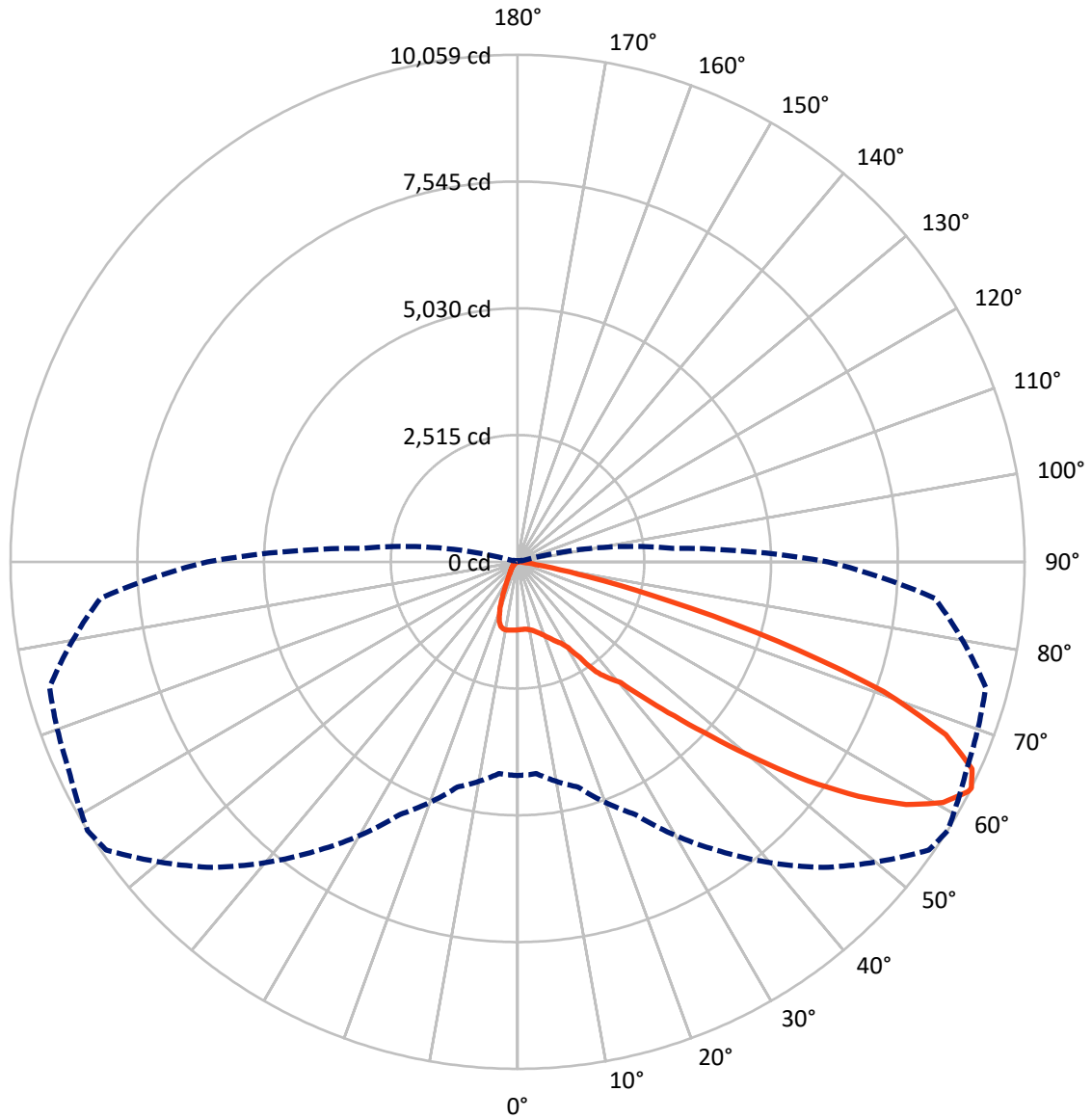
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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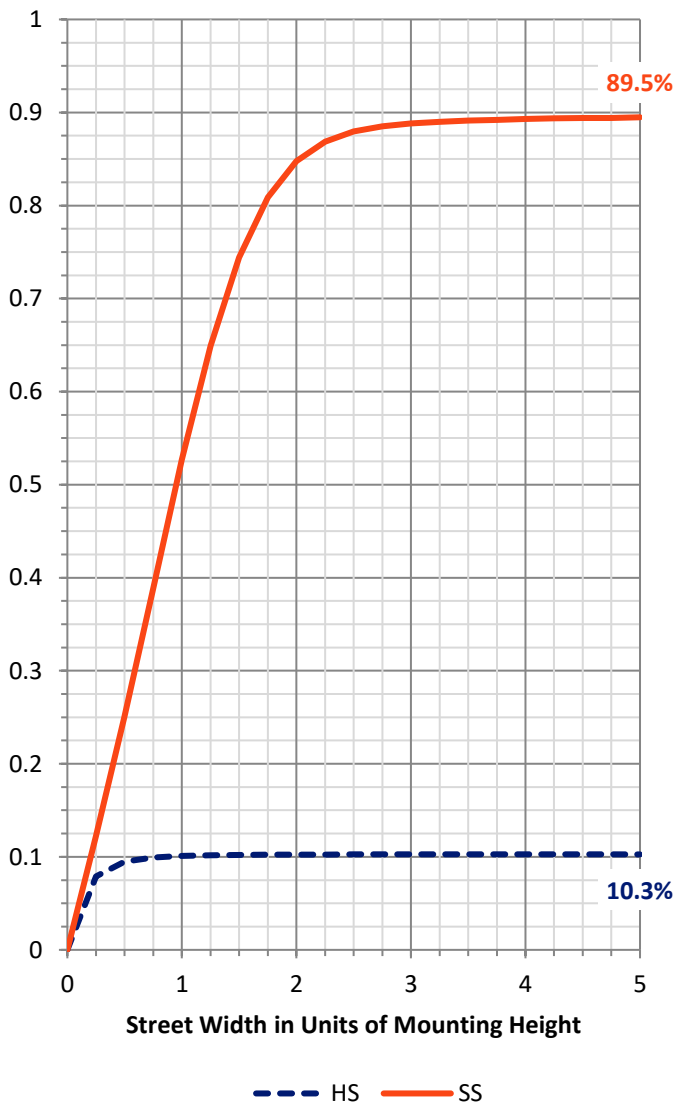
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1249.3	0.0	1249.3
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	10816.0	0.0	10816.0
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	12065.2	0.0	12065.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	1.0
10°-20°	344.4	2.9
20°-30°	597.7	5.0
30°-40°	1098.4	9.1
40°-50°	2067.7	17.1
50°-60°	3536.6	29.3
60°-70°	3386.3	28.1
70°-80°	863.5	7.2
80°-90°	44.2	0.4
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°	12065.2	100.0
0°-180°	12065.2	100.0

**Coefficient of Utilization**

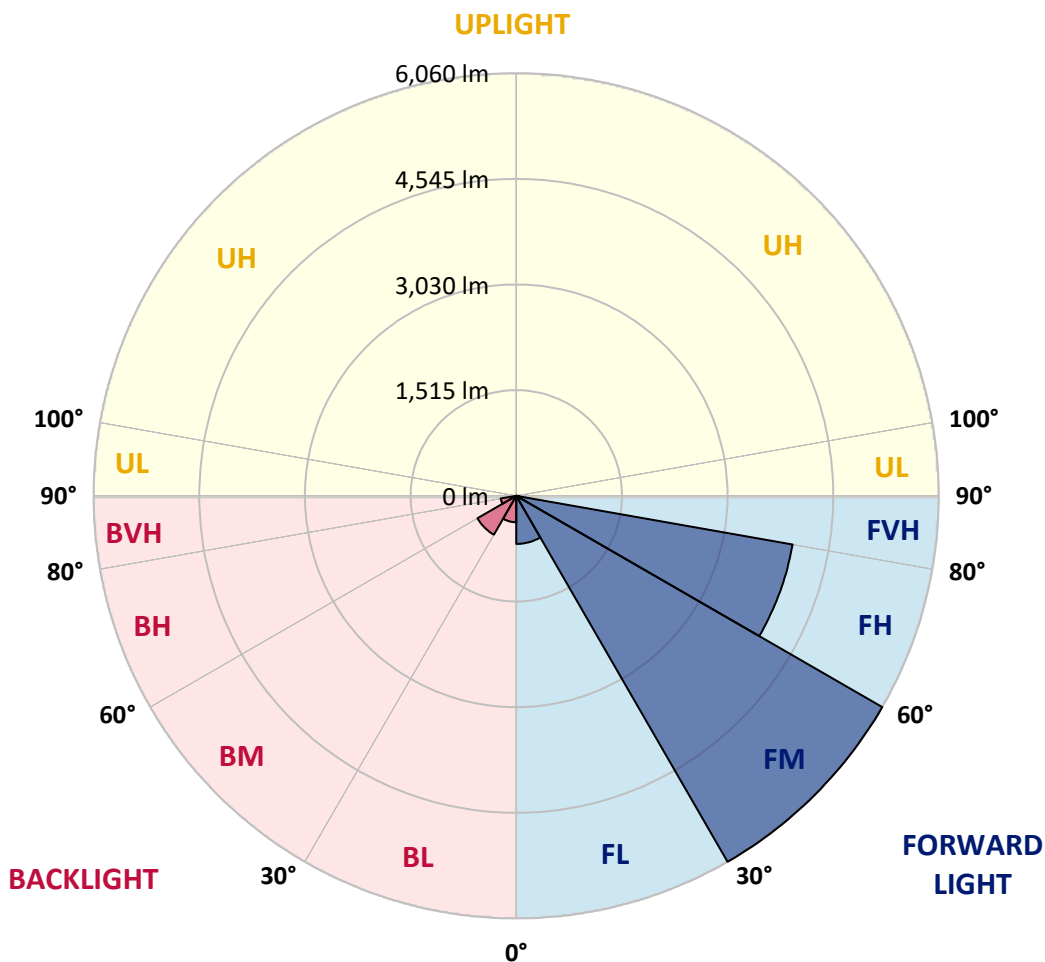


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	689.7	5.7			
FM (30°-60°)	6060.1	50.2			
FH (60°-80°)	4023.7	33.3			G2/5000
FVH (80°-90°)	42.4	0.4			G1/100
BL (0°-30°)	378.9	3.1	B1/500		
BM (30°-60°)	642.6	5.3	B1/1000		
BH (60°-80°)	226.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.7	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°	45°	55°	58°	65°	75°	85°
0°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1317.2	1321.7	1326.2	1328.0	1334.4	1340.7	1345.3	1344.4	1351.7	1355.3	1355.3
5°	1264.5	1264.5	1276.3	1287.2	1305.3	1323.5	1340.7	1344.4	1358.0	1370.7	1375.3
7.5°	1219.9	1222.7	1231.7	1251.7	1276.3	1308.1	1342.6	1350.8	1374.4	1402.5	1414.3
10°	1199.1	1200.9	1212.7	1233.5	1264.5	1308.1	1356.2	1371.7	1408.0	1452.5	1468.8
12.5°	1194.5	1197.2	1209.0	1232.7	1268.1	1320.8	1386.1	1402.5	1455.2	1512.4	1537.0
15°	1202.7	1204.5	1216.3	1241.8	1280.8	1343.5	1426.2	1448.9	1511.5	1577.8	1609.6
17.5°	1231.7	1229.9	1238.1	1259.0	1302.6	1371.7	1474.3	1501.6	1575.1	1666.0	1686.8
20°	1355.3	1343.5	1336.2	1318.0	1335.3	1411.6	1532.4	1572.4	1663.2	1755.9	1770.4
22.5°	1621.4	1595.1	1543.3	1472.5	1417.9	1466.1	1602.4	1648.7	1765.9	1856.7	1856.7
25°	1960.2	1926.6	1874.9	1720.5	1586.9	1556.1	1681.4	1739.5	1877.6	1969.3	1939.4
27.5°	2384.5	2358.2	2257.3	2077.5	1873.1	1713.2	1773.2	1826.7	1976.6	2087.5	2024.8
30°	2729.7	2716.9	2634.2	2473.5	2248.2	2014.7	1944.0	1979.3	2108.3	2236.4	2171.9
32.5°	3021.3	3021.3	2936.8	2786.9	2576.1	2369.0	2233.7	2259.1	2382.7	2530.7	2410.9
35°	3341.9	3331.0	3262.8	3120.3	2884.1	2701.5	2646.1	2680.6	2792.3	2902.3	2607.0
37.5°	3678.9	3675.2	3604.5	3466.3	3273.8	3044.0	2914.1	2923.2	2980.4	3047.6	2836.9
40°	4045.0	4050.5	3957.8	3872.4	3690.7	3455.5	3206.5	3149.3	3202.9	3392.7	3261.0
42.5°	4477.4	4464.7	4424.7	4308.4	4162.2	4021.3	3722.5	3701.6	3748.8	3952.3	3809.7
45°	4979.7	4997.9	4928.8	4864.3	4766.2	4649.1	4399.3	4363.0	4414.7	4730.8	4528.2
47.5°	5483.0	5465.7	5510.2	5498.4	5551.1	5463.9	5243.1	5168.7	5293.1	5592.9	5294.9
50°	5866.2	5885.3	5978.0	6113.4	6339.6	6388.6	6176.9	6151.5	6206.9	6399.5	5980.7
52.5°	6115.2	6178.7	6324.1	6672.0	7079.9	7396.9	7236.1	7222.5	7199.8	7251.5	6636.6
55°	6277.8	6342.3	6532.1	7044.4	7746.6	8261.7	8269.8	8211.7	8061.8	8024.6	7249.7
57.5°	6177.9	6190.6	6461.2	7146.2	8116.3	8878.4	9145.5	9087.3	8810.3	8669.5	7791.1
60°	5552.9	5579.3	5956.2	6761.0	7955.5	9080.1	9726.0	9699.6	9396.2	9237.3	8212.6
62.5°	4445.6	4521.9	4909.7	5807.2	7207.9	8740.4	9961.2	10035.7	9799.6	9580.6	8345.2
63°	4242.1	4217.6	4627.2	5529.2	7009.9	8572.3	9964.8	10059.4	9817.7	9613.3	8308.9
65°	3140.2	3213.8	3480.0	4360.2	5833.6	7790.2	9740.5	9907.6	9750.5	9468.9	7906.5
67.5°	1763.2	1759.6	2053.8	2853.2	4083.1	6110.6	8807.6	9160.9	9128.2	8497.0	6553.9
70°	862.9	876.6	997.4	1478.9	2368.1	4215.8	7318.8	7700.3	7712.1	6673.8	4531.8
72.5°	390.6	397.0	483.3	720.4	1217.3	2244.6	5043.3	5407.6	5340.3	4253.0	2502.5
75°	206.2	219.8	266.1	362.5	586.8	925.7	2743.3	3095.7	2955.0	1943.0	921.1
77.5°	152.6	157.1	180.8	230.8	314.3	360.6	1183.6	1408.0	1319.0	703.1	305.2
80°	111.7	115.3	134.4	163.5	198.0	183.5	446.0	511.4	458.8	238.9	93.6
82.5°	68.1	69.1	98.1	121.8	124.4	102.7	147.1	158.1	165.3	134.4	50.9
85°	24.5	30.9	66.3	88.1	73.6	51.8	61.8	68.1	74.5	85.4	30.0
87.5°	2.7	3.6	31.8	42.7	20.9	19.1	22.7	25.4	27.2	31.8	14.6
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°	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8	1350.8
2.5°	1358.9	1362.6	1359.8	1355.3	1354.4	1351.7	1346.2	1346.2	1346.2	1348.0	1346.2
5°	1378.9	1381.6	1375.3	1366.2	1356.2	1343.5	1329.8	1321.7	1320.8	1319.0	1314.4
7.5°	1417.1	1420.7	1406.2	1384.3	1357.1	1326.2	1297.2	1269.9	1257.2	1247.2	1247.2
10°	1472.5	1476.1	1447.1	1408.0	1353.5	1290.8	1221.8	1159.1	1110.1	1087.4	1081.9
12.5°	1538.8	1540.6	1492.5	1424.4	1334.4	1213.6	1066.4	929.3	833.9	790.3	785.7
15°	1611.5	1598.7	1535.1	1430.7	1279.9	1054.6	800.3	632.2	533.2	504.2	515.1
17.5°	1685.0	1661.4	1567.9	1420.7	1157.3	800.3	537.8	431.5	400.6	392.4	392.4
20°	1754.1	1721.3	1591.4	1377.1	944.7	551.4	398.8	373.3	367.9	362.5	363.3
22.5°	1823.1	1773.2	1612.4	1279.9	704.0	394.2	357.0	348.8	341.5	334.3	333.4
25°	1890.3	1821.3	1620.6	1100.0	479.6	338.8	326.1	315.2	300.7	292.5	290.6
27.5°	1960.2	1879.4	1615.1	873.0	349.7	303.4	290.6	275.2	258.0	243.4	243.4
30°	2094.7	1990.2	1596.0	627.7	294.3	267.1	250.7	226.2	207.1	192.5	191.7
32.5°	2278.2	2134.7	1530.6	441.5	261.6	235.3	210.7	183.5	163.5	152.6	152.6
35°	2441.7	2280.0	1408.0	325.2	235.3	204.4	174.4	148.1	132.6	125.4	122.6
37.5°	2690.6	2492.6	1239.0	264.3	209.8	177.1	146.3	121.8	109.0	103.6	103.6
40°	3064.0	2752.4	1031.9	231.6	185.3	150.8	121.8	102.7	92.6	86.3	86.3
42.5°	3527.2	3070.3	822.1	208.0	162.6	129.9	101.7	87.2	78.1	73.6	72.7
45°	4110.4	3405.5	633.1	186.2	144.5	110.8	86.3	73.6	64.5	61.8	62.6
47.5°	4719.0	3700.7	490.5	167.2	125.4	93.6	73.6	63.6	57.2	53.6	53.6
50°	5238.6	3904.2	372.4	145.3	110.8	79.0	64.5	57.2	51.8	50.0	49.0
52.5°	5672.8	3963.2	285.2	126.3	97.2	68.1	57.2	51.8	47.2	44.5	44.5
55°	6042.5	3911.5	223.5	106.3	81.7	59.0	50.9	46.4	40.9	38.1	37.3
57.5°	6258.7	3745.2	170.8	88.1	66.3	49.0	44.5	39.1	32.7	28.2	28.2
60°	6367.7	3503.6	130.8	72.7	50.9	39.1	36.3	29.0	22.7	19.1	18.2
62.5°	6236.9	3183.0	99.0	57.2	38.1	29.0	24.5	20.9	14.6	10.9	10.9
63°	6156.0	3090.3	95.4	54.5	35.4	27.2	22.7	19.1	12.7	10.0	9.1
65°	5611.9	2686.1	78.1	43.6	28.2	19.1	15.4	13.6	9.1	4.5	3.6
67.5°	4456.4	2054.7	61.8	32.7	20.0	13.6	9.1	8.1	2.7	0.0	0.0
70°	3013.1	1327.1	48.2	23.6	13.6	8.1	4.5	3.6	0.9	0.0	0.0
72.5°	1571.5	680.3	37.3	17.2	8.1	5.5	2.7	0.9	0.0	0.0	0.0
75°	555.9	231.6	27.2	10.9	5.5	2.7	0.9	0.0	0.0	0.0	0.0
77.5°	168.0	86.3	17.2	8.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0
80°	59.0	31.8	10.0	5.5	2.7	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	29.0	15.4	6.3	4.5	2.7	0.9	0.0	0.0	0.0	0.0	0.0
85°	16.4	10.0	5.5	4.5	2.7	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	7.3	5.5	4.5	3.6	1.8	0.9	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)