

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: P650818

Luminaire Tested: **GALN-SA3C-840-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650818  
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-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 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: 12959 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

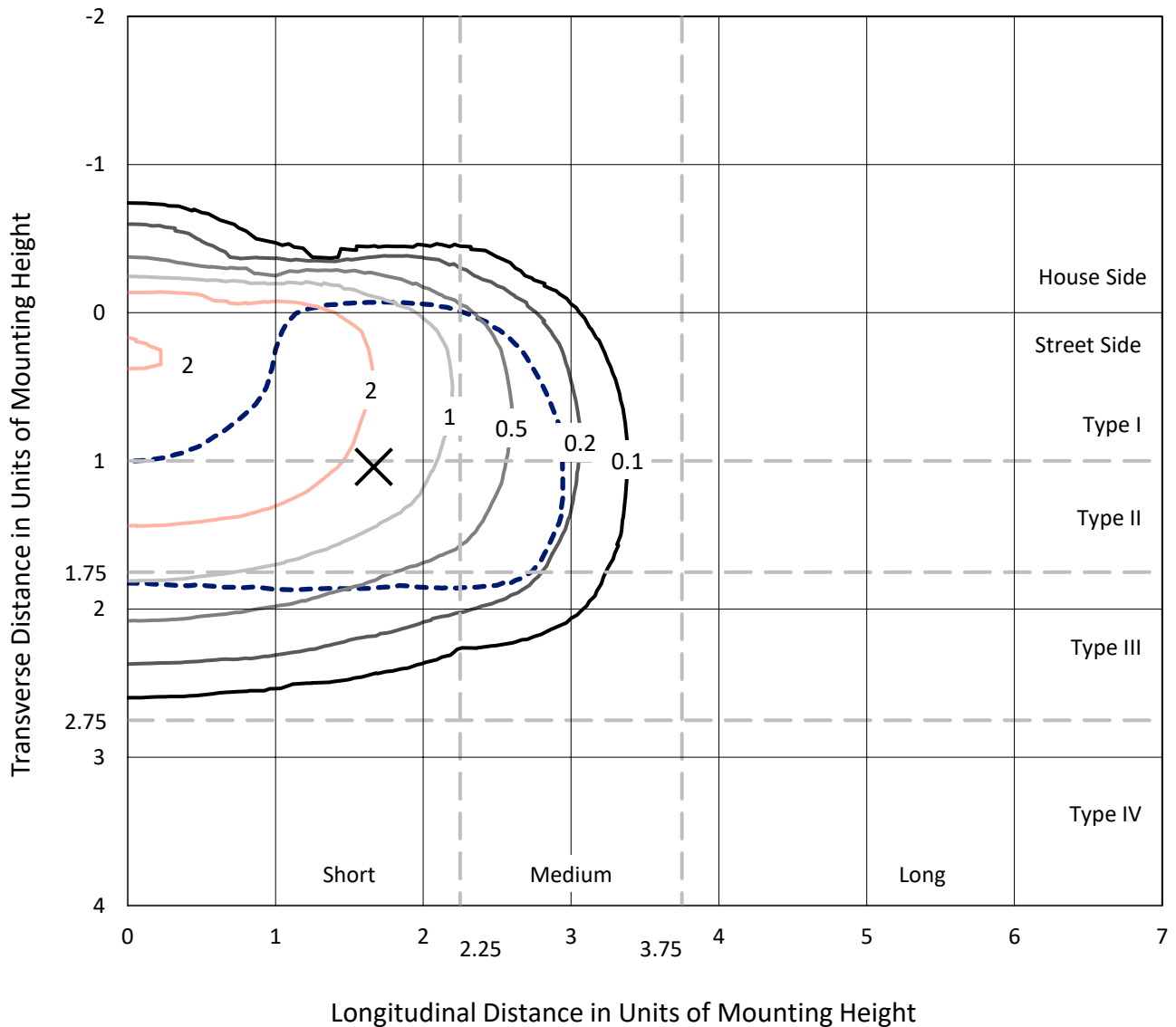
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

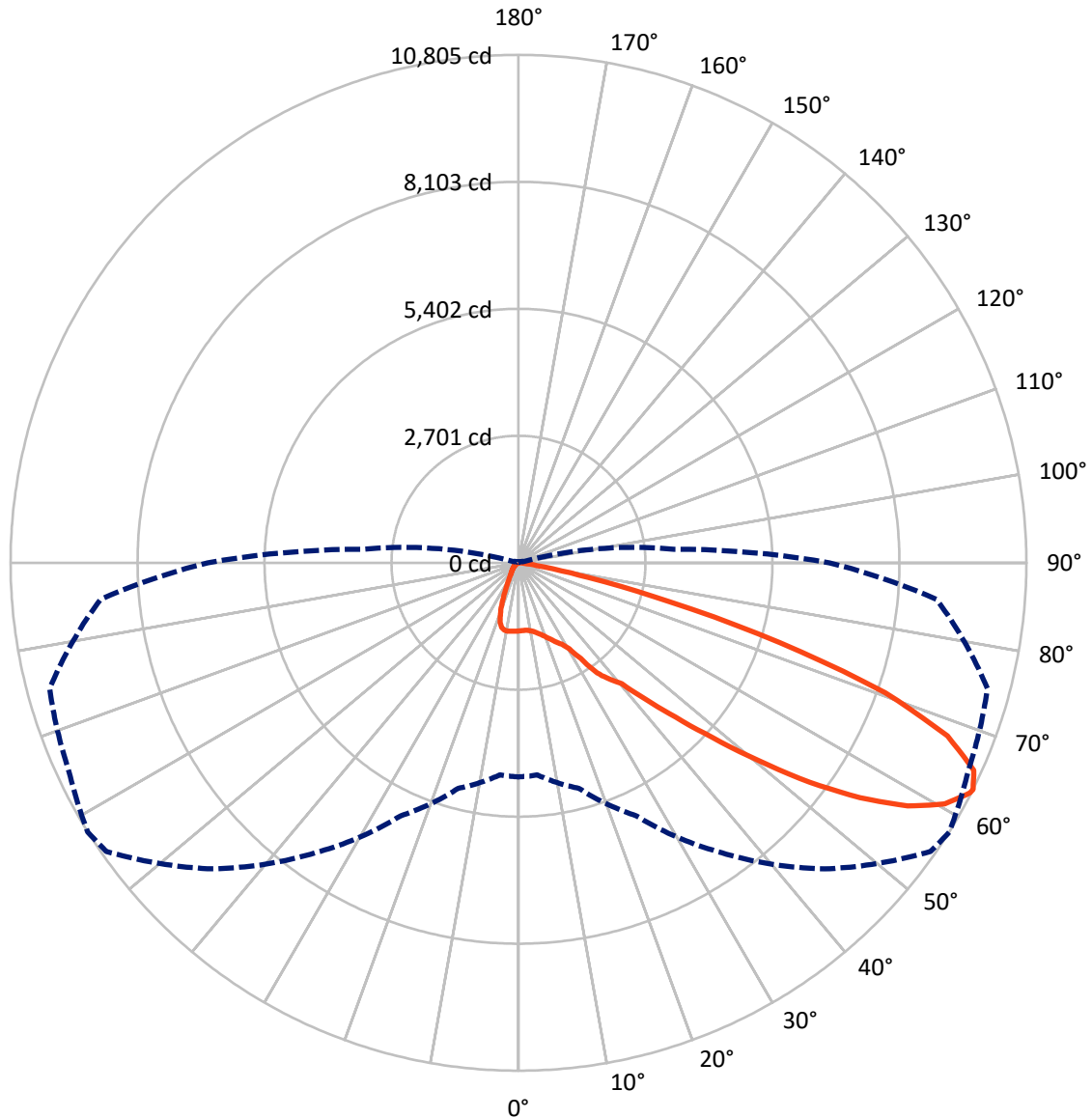
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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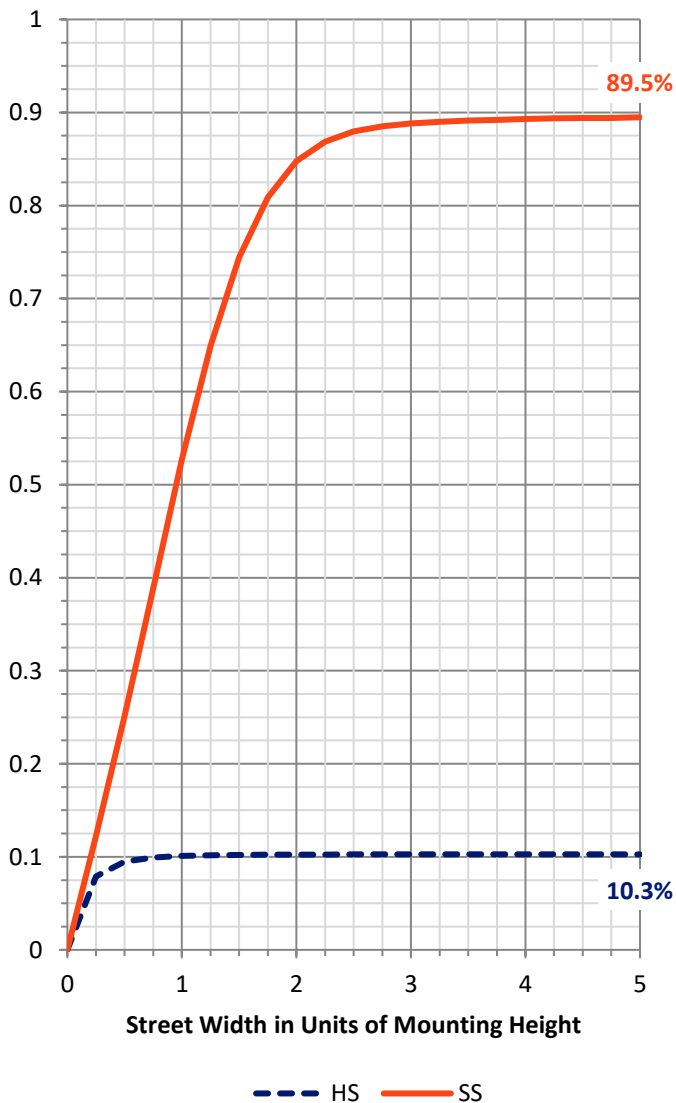
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1341.8	0.0	1341.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	11617.2	0.0	11617.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	12959.0	0.0	12959.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.8	1.0
10°-20°	369.9	2.9
20°-30°	642.0	5.0
30°-40°	1179.8	9.1
40°-50°	2220.9	17.1
50°-60°	3798.6	29.3
60°-70°	3637.2	28.1
70°-80°	927.5	7.2
80°-90°	47.4	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°	12959.0	100.0
0°-180°	12959.0	100.0

**Coefficient of Utilization**



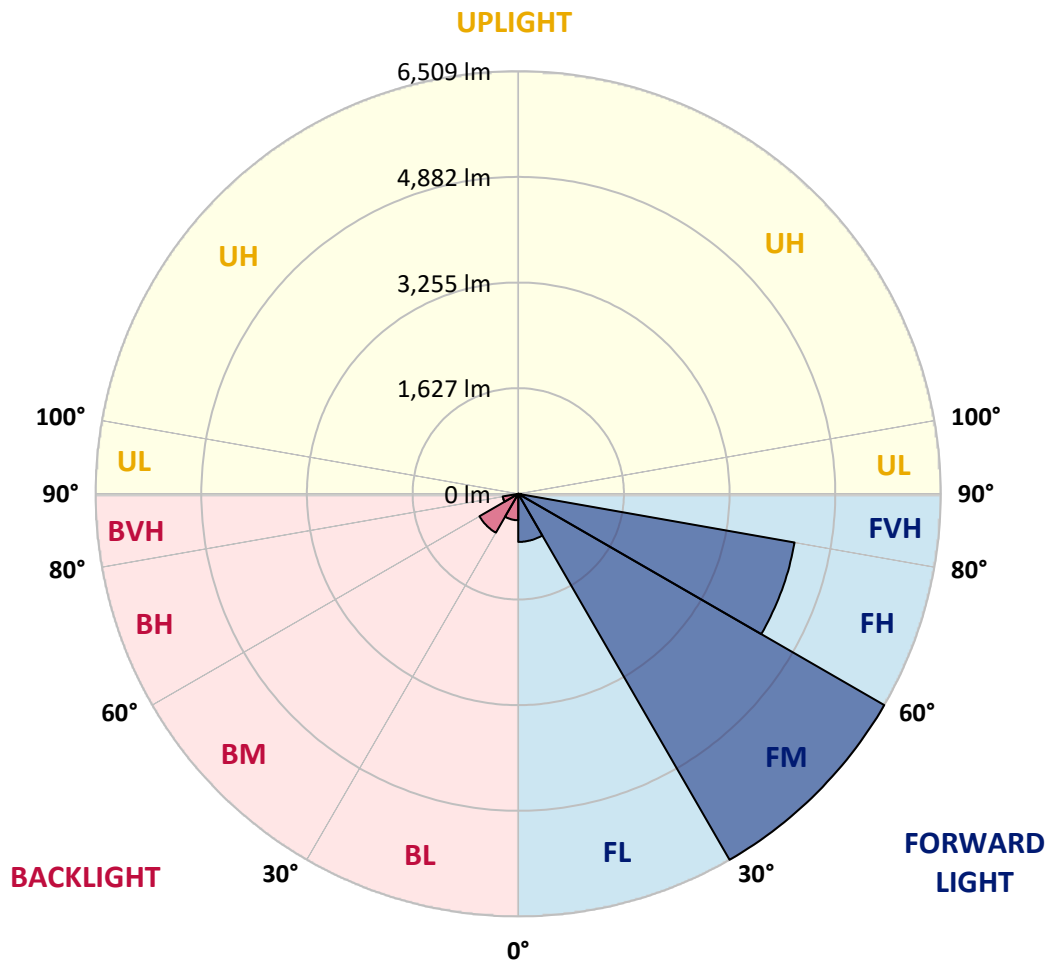
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.8	5.7			
FM (30°-60°)	6509.0	50.2			
FH (60°-80°)	4321.7	33.3			G2/5000
FVH (80°-90°)	45.6	0.4			G1/100
BL (0°-30°)	406.9	3.1	B1/500		
BM (30°-60°)	690.2	5.3	B1/1000		
BH (60°-80°)	242.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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°	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8
2.5°	1414.7	1419.6	1424.5	1426.4	1433.2	1440.0	1444.9	1444.0	1451.8	1455.7	1455.7
5°	1358.1	1358.1	1370.8	1382.5	1402.0	1421.5	1440.0	1444.0	1458.6	1472.3	1477.1
7.5°	1310.3	1313.2	1323.0	1344.4	1370.8	1405.0	1442.1	1450.8	1476.2	1506.4	1519.1
10°	1287.9	1289.8	1302.5	1324.9	1358.1	1405.0	1456.7	1473.3	1512.3	1560.1	1577.6
12.5°	1283.0	1285.9	1298.6	1324.0	1362.0	1418.6	1488.8	1506.4	1563.0	1624.5	1650.8
15°	1291.8	1293.7	1306.4	1333.7	1375.7	1443.0	1531.8	1556.2	1623.5	1694.7	1728.8
17.5°	1323.0	1321.0	1329.8	1352.2	1399.1	1473.3	1583.5	1612.8	1691.8	1789.4	1811.8
20°	1455.7	1443.0	1435.2	1415.7	1434.2	1516.2	1645.9	1688.9	1786.5	1885.9	1901.6
22.5°	1741.5	1713.3	1657.6	1581.6	1523.0	1574.7	1721.1	1770.8	1896.7	1994.3	1994.3
25°	2105.4	2069.4	2013.8	1847.9	1704.5	1671.3	1806.0	1868.4	2016.7	2115.2	2083.1
27.5°	2561.1	2532.8	2424.5	2231.3	2011.8	1840.1	1904.5	1962.1	2123.0	2242.1	2174.7
30°	2931.9	2918.2	2829.4	2656.7	2414.8	2164.0	2088.0	2126.0	2264.5	2402.1	2332.8
32.5°	3245.1	3245.1	3154.3	2993.3	2767.0	2544.5	2399.1	2426.5	2559.2	2718.2	2589.4
35°	3589.5	3577.8	3504.5	3351.4	3097.7	2901.6	2842.1	2879.2	2999.2	3117.3	2800.1
37.5°	3951.4	3947.5	3871.5	3723.1	3516.3	3269.5	3129.9	3139.7	3201.2	3273.3	3047.0
40°	4344.6	4350.5	4250.9	4159.2	3964.1	3711.4	3444.1	3382.6	3440.2	3644.1	3502.6
42.5°	4809.0	4795.4	4752.4	4627.5	4470.5	4319.2	3998.3	3975.8	4026.5	4245.1	4091.9
45°	5348.6	5368.1	5293.9	5224.6	5119.3	4993.4	4725.2	4686.1	4741.7	5081.2	4863.7
47.5°	5889.1	5870.5	5918.4	5905.7	5962.3	5868.6	5631.5	5551.5	5685.2	6007.2	5687.1
50°	6300.8	6321.3	6420.8	6566.2	6809.2	6861.8	6634.5	6607.1	6666.7	6873.5	6423.7
52.5°	6568.1	6636.4	6792.5	7166.2	7604.3	7944.8	7772.1	7757.5	7733.1	7788.7	7128.1
55°	6742.8	6812.1	7016.0	7566.2	8320.4	8873.6	8882.4	8820.0	8659.0	8619.0	7786.7
57.5°	6635.5	6649.1	6939.8	7675.6	8717.6	9536.1	9823.0	9760.5	9462.9	9311.7	8368.2
60°	5964.2	5992.5	6397.4	7261.9	8544.8	9752.7	10446.4	10418.1	10092.3	9921.5	8820.9
62.5°	4774.9	4856.9	5273.4	6237.4	7741.8	9387.8	10699.1	10779.1	10525.5	10290.3	8963.4
63°	4556.4	4530.0	4970.0	5938.8	7529.1	9207.3	10703.0	10804.5	10545.0	10325.4	8924.4
65°	3372.8	3451.9	3737.7	4683.2	6265.7	8367.3	10462.0	10641.5	10472.7	10170.3	8492.2
67.5°	1893.8	1889.9	2205.9	3064.5	4385.6	6563.2	9460.0	9839.5	9804.4	9126.4	7039.4
70°	926.9	941.5	1071.3	1588.4	2543.5	4528.0	7860.9	8270.6	8283.3	7168.2	4867.5
72.5°	419.6	426.4	519.1	773.7	1307.4	2410.9	5416.9	5808.1	5735.9	4568.1	2687.9
75°	221.4	236.1	285.9	389.3	630.2	994.2	2946.5	3325.1	3173.8	2086.9	989.4
77.5°	163.9	168.8	194.2	247.8	337.6	387.4	1271.3	1512.3	1416.7	755.1	327.8
80°	120.0	123.9	144.4	175.6	212.7	197.0	479.0	549.3	492.7	256.6	100.5
82.5°	73.2	74.2	105.4	130.8	133.6	110.3	158.0	169.8	177.5	144.4	54.7
85°	26.3	33.1	71.2	94.6	79.1	55.6	66.4	73.2	80.0	91.8	32.2
87.5°	2.9	3.9	34.1	45.8	22.5	20.5	24.4	27.3	29.3	34.1	15.6
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°	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8	1450.8
2.5°	1459.6	1463.5	1460.6	1455.7	1454.7	1451.8	1445.9	1445.9	1445.9	1447.9	1445.9
5°	1481.1	1483.9	1477.1	1467.4	1456.7	1443.0	1428.4	1419.6	1418.6	1416.7	1411.8
7.5°	1522.0	1525.9	1510.4	1486.9	1457.6	1424.5	1393.3	1363.9	1350.3	1339.5	1339.5
10°	1581.6	1585.5	1554.3	1512.3	1453.8	1386.4	1312.3	1244.9	1192.3	1167.9	1162.0
12.5°	1652.7	1654.8	1603.0	1529.9	1433.2	1303.5	1145.4	998.1	895.7	848.8	843.9
15°	1730.9	1717.2	1648.9	1536.7	1374.7	1132.7	859.6	679.0	572.7	541.5	553.2
17.5°	1809.8	1784.5	1684.0	1525.9	1243.0	859.6	577.6	463.5	430.3	421.5	421.5
20°	1884.0	1848.9	1709.3	1479.1	1014.7	592.2	428.3	401.0	395.1	389.3	390.2
22.5°	1958.2	1904.5	1731.8	1374.7	756.1	423.4	383.4	374.7	366.8	359.0	358.1
25°	2030.3	1956.2	1740.6	1181.5	515.1	363.9	350.3	338.6	322.9	314.2	312.2
27.5°	2105.4	2018.7	1734.7	937.6	375.6	325.9	312.2	295.6	277.1	261.5	261.5
30°	2249.8	2137.7	1714.2	674.1	316.1	286.9	269.3	243.0	222.4	206.8	205.9
32.5°	2447.0	2292.8	1644.0	474.2	281.0	252.7	226.3	197.0	175.6	163.9	163.9
35°	2622.6	2448.9	1512.3	349.3	252.7	219.5	187.3	159.0	142.5	134.6	131.7
37.5°	2889.9	2677.2	1330.8	283.9	225.4	190.2	157.1	130.8	117.1	111.3	111.3
40°	3290.9	2956.3	1108.4	248.8	199.1	162.0	130.8	110.3	99.5	92.7	92.7
42.5°	3788.5	3297.7	883.0	223.5	174.7	139.5	109.2	93.7	83.9	79.1	78.0
45°	4414.8	3657.8	680.0	200.0	155.2	119.0	92.7	79.1	69.3	66.4	67.3
47.5°	5068.5	3974.8	526.9	179.6	134.6	100.5	79.1	68.3	61.5	57.5	57.5
50°	5626.6	4193.4	400.0	156.1	119.0	84.9	69.3	61.5	55.6	53.7	52.6
52.5°	6093.0	4256.8	306.4	135.7	104.4	73.2	61.5	55.6	50.7	47.8	47.8
55°	6490.1	4201.2	240.0	114.1	87.8	63.4	54.7	49.8	43.9	41.0	40.0
57.5°	6722.3	4022.7	183.4	94.6	71.2	52.6	47.8	42.0	35.2	30.3	30.3
60°	6839.3	3763.1	140.5	78.0	54.7	42.0	39.0	31.2	24.4	20.5	19.5
62.5°	6698.9	3418.7	106.4	61.5	41.0	31.2	26.3	22.5	15.6	11.7	11.7
63°	6612.0	3319.2	102.4	58.5	38.0	29.3	24.4	20.5	13.6	10.8	9.8
65°	6027.6	2885.1	83.9	46.8	30.3	20.5	16.6	14.6	9.8	4.9	3.9
67.5°	4786.6	2207.0	66.4	35.2	21.4	14.6	9.8	8.7	2.9	0.0	0.0
70°	3236.3	1425.4	51.7	25.4	14.6	8.7	4.9	3.9	1.0	0.0	0.0
72.5°	1687.9	730.7	40.0	18.5	8.7	5.9	2.9	1.0	0.0	0.0	0.0
75°	597.1	248.8	29.3	11.7	5.9	2.9	1.0	0.0	0.0	0.0	0.0
77.5°	180.5	92.7	18.5	8.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	63.4	34.1	10.8	5.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.2	16.6	6.8	4.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0
85°	17.6	10.8	5.9	4.9	2.9	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	7.8	5.9	4.9	3.9	1.9	1.0	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)