

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: P651313

Luminaire Tested: **GALN-SA3D-840-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651313  
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-SA3D-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1200mA 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: 14259.2 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

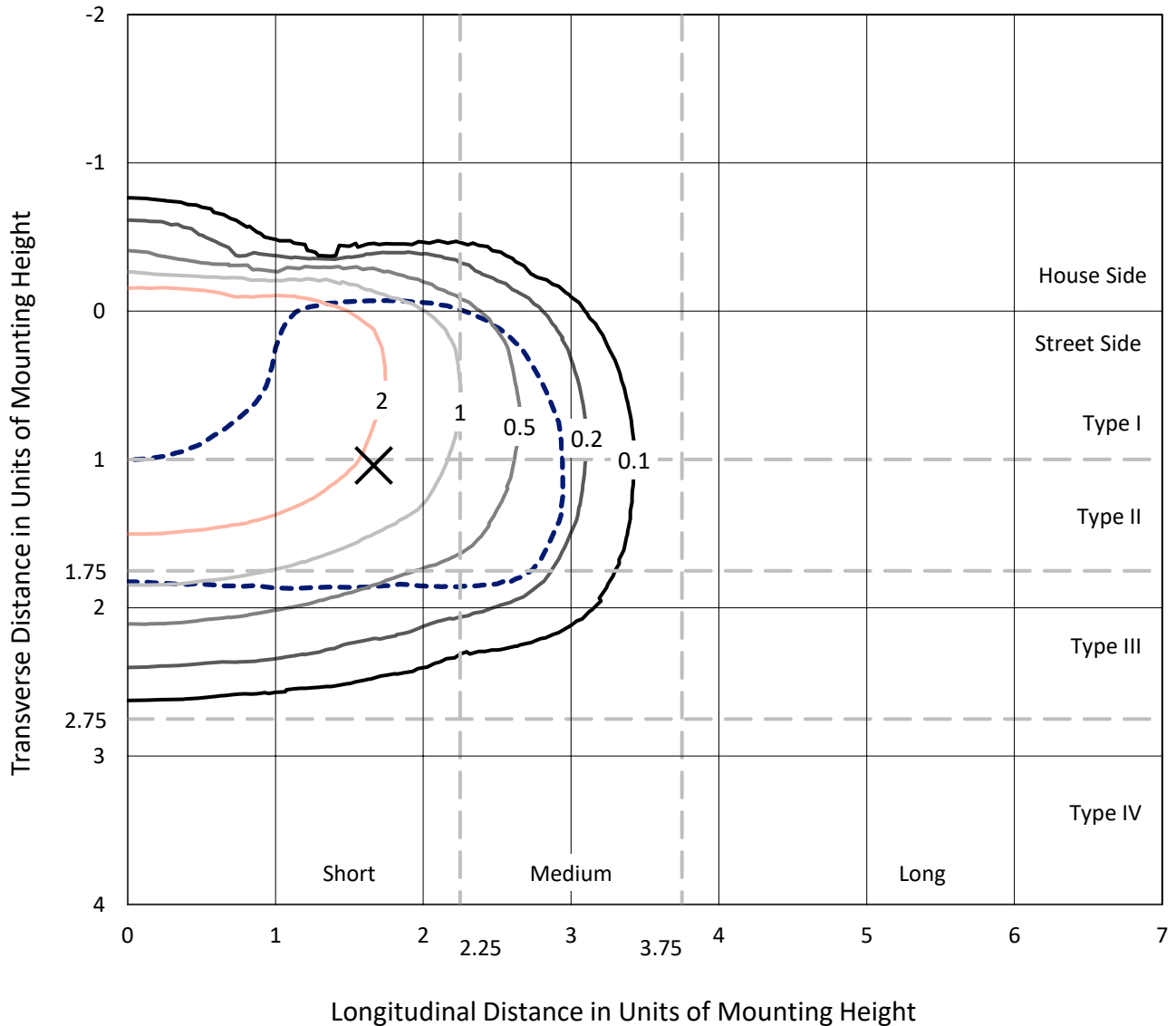
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

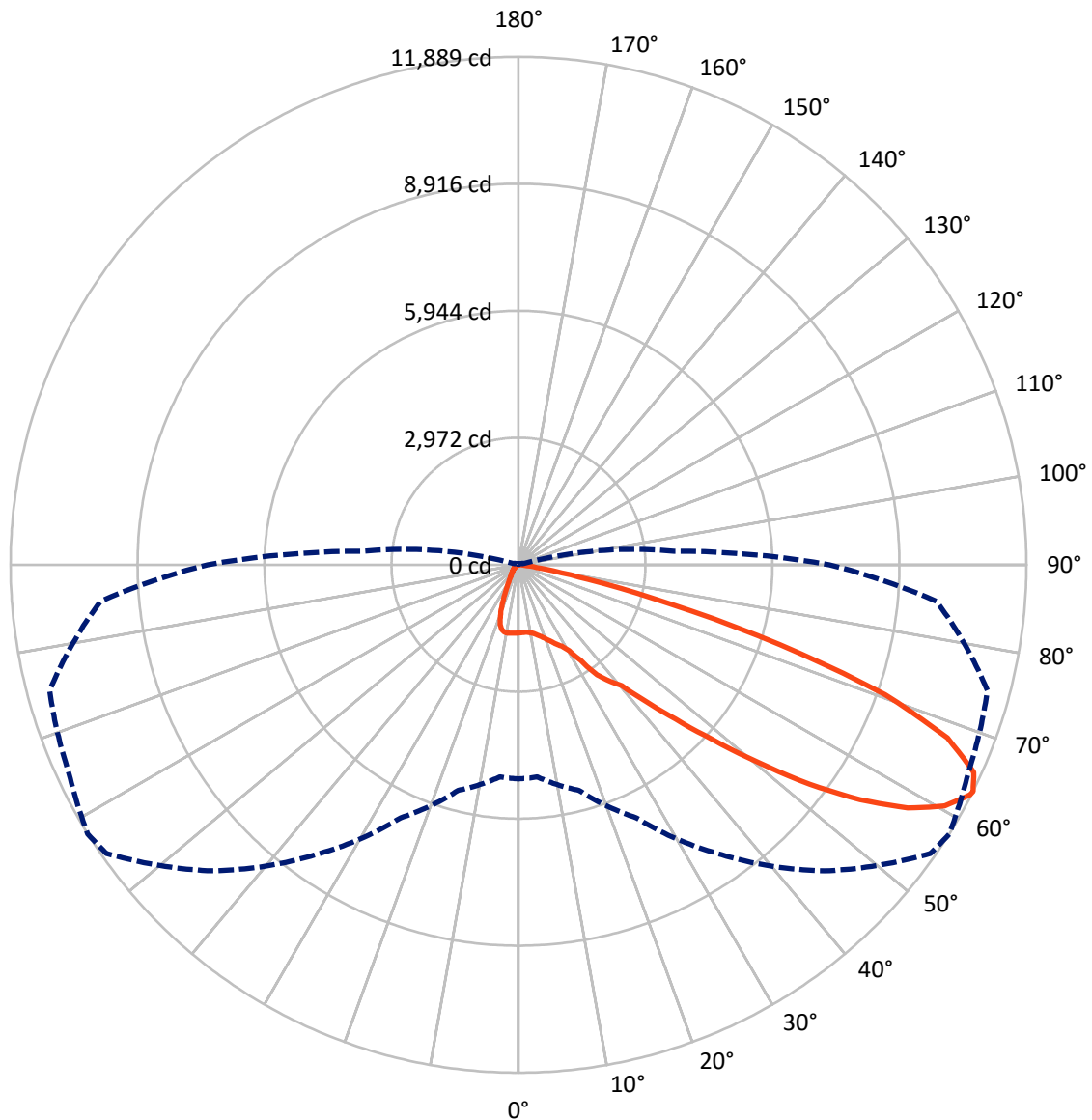
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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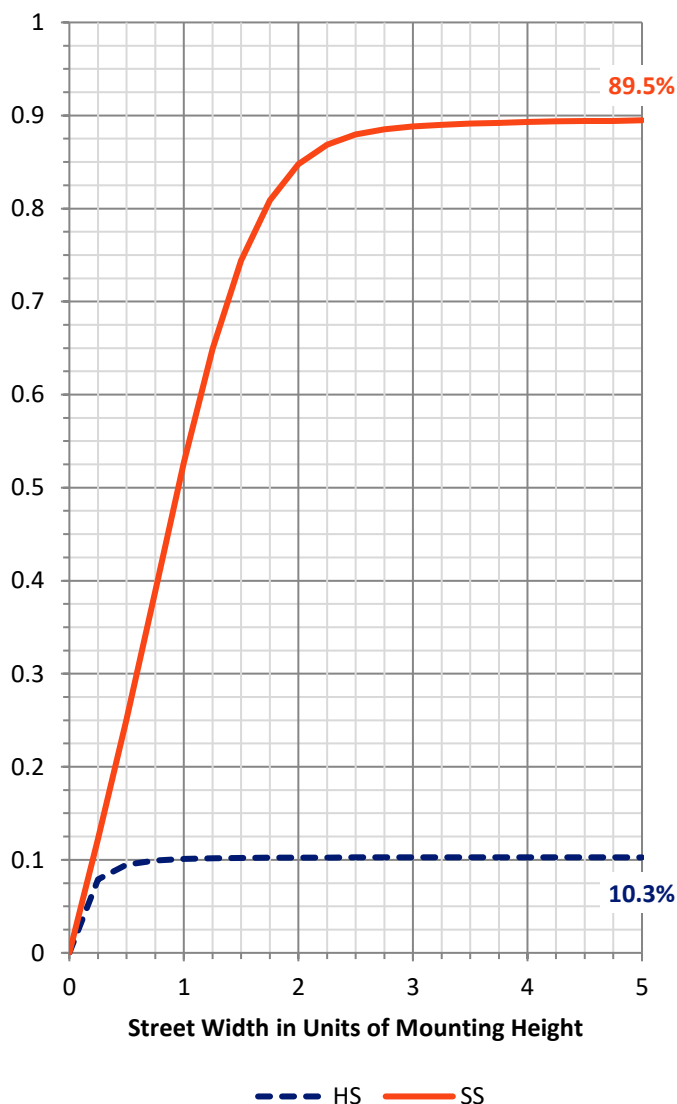
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1476.5	0.0	1476.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	12782.7	0.0	12782.7
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	14259.2	0.0	14259.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.4	1.0
10°-20°	407.0	2.9
20°-30°	706.4	5.0
30°-40°	1298.1	9.1
40°-50°	2443.7	17.1
50°-60°	4179.7	29.3
60°-70°	4002.1	28.1
70°-80°	1020.5	7.2
80°-90°	52.2	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°	14259.2	100.0
0°-180°	14259.2	100.0

**Coefficient of Utilization**



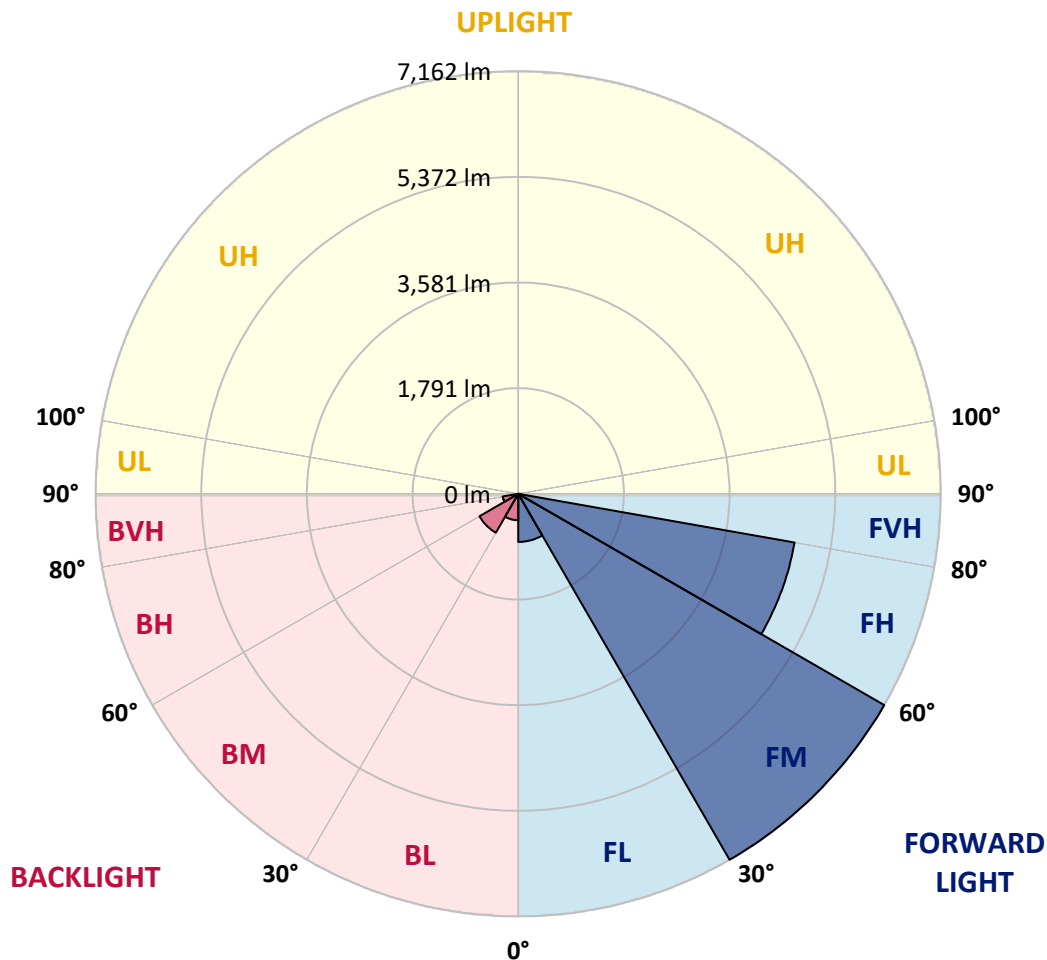
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.1	5.7			
FM (30°-60°)	7162.1	50.2			
FH (60°-80°)	4755.4	33.3			G2/5000
FVH (80°-90°)	50.2	0.4			G1/100
BL (0°-30°)	447.8	3.1	B1/500		
BM (30°-60°)	759.4	5.3	B1/1000		
BH (60°-80°)	267.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	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°	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4
2.5°	1556.6	1562.0	1567.4	1569.6	1577.0	1584.5	1589.9	1588.8	1597.5	1601.8	1601.8
5°	1494.4	1494.4	1508.3	1521.2	1542.7	1564.2	1584.5	1588.8	1605.0	1620.0	1625.3
7.5°	1441.8	1445.0	1455.8	1479.3	1508.3	1545.9	1586.7	1596.4	1624.3	1657.5	1671.5
10°	1417.1	1419.3	1433.1	1457.9	1494.4	1545.9	1602.8	1621.0	1664.0	1716.6	1735.9
12.5°	1411.7	1414.9	1428.9	1456.8	1498.7	1561.0	1638.3	1657.5	1719.8	1787.5	1816.5
15°	1421.4	1423.6	1437.5	1467.5	1513.7	1587.8	1685.4	1712.3	1786.4	1864.7	1902.3
17.5°	1455.8	1453.6	1463.3	1487.9	1539.5	1621.0	1742.4	1774.6	1861.6	1968.9	1993.6
20°	1601.8	1587.8	1579.2	1557.7	1578.1	1668.3	1811.1	1858.3	1965.7	2075.2	2092.3
22.5°	1916.3	1885.2	1824.0	1740.2	1675.8	1732.7	1893.8	1948.5	2086.9	2194.3	2194.3
25°	2316.7	2277.0	2215.8	2033.3	1875.5	1839.0	1987.1	2055.8	2219.1	2327.5	2292.1
27.5°	2818.1	2786.9	2667.7	2455.2	2213.7	2024.7	2095.6	2158.9	2336.0	2467.0	2393.0
30°	3226.0	3211.0	3113.3	2923.3	2657.1	2381.1	2297.4	2339.2	2491.7	2643.1	2566.8
32.5°	3570.6	3570.6	3470.8	3293.6	3044.6	2799.9	2639.9	2669.9	2815.9	2990.9	2849.2
35°	3949.6	3936.7	3856.2	3687.6	3408.5	3192.8	3127.3	3168.0	3300.1	3430.0	3081.1
37.5°	4347.9	4343.6	4259.8	4096.7	3869.1	3597.5	3444.0	3454.7	3522.3	3601.8	3352.7
40°	4780.5	4787.0	4677.5	4576.6	4361.8	4083.8	3789.6	3722.0	3785.3	4009.7	3854.1
42.5°	5291.5	5276.5	5229.3	5091.8	4919.0	4752.6	4399.4	4374.7	4430.6	4671.0	4502.5
45°	5885.2	5906.7	5825.1	5748.8	5632.9	5494.4	5199.2	5156.3	5217.5	5591.1	5351.6
47.5°	6479.9	6459.6	6512.1	6498.2	6560.5	6457.4	6196.5	6108.5	6255.6	6609.8	6257.7
50°	6933.0	6955.5	7065.0	7224.9	7492.3	7550.2	7300.1	7270.1	7335.5	7563.1	7068.3
52.5°	7227.1	7302.3	7474.1	7885.2	8367.3	8741.9	8551.9	8535.8	8509.0	8570.1	7843.3
55°	7419.3	7495.5	7719.9	8325.4	9155.2	9763.9	9773.6	9704.9	9527.8	9483.7	8568.0
57.5°	7301.2	7316.2	7636.2	8445.6	9592.2	10492.9	10808.5	10739.8	10412.3	10246.0	9207.9
60°	6562.6	6593.8	7039.3	7990.4	9402.1	10731.2	11494.5	11463.3	11104.8	10916.9	9706.0
62.5°	5254.0	5344.1	5802.6	6863.2	8518.6	10329.7	11772.6	11860.5	11581.4	11322.7	9862.7
63°	5013.5	4984.5	5468.7	6534.7	8284.6	10131.1	11776.9	11888.5	11602.9	11361.4	9819.8
65°	3711.2	3798.2	4112.7	5153.1	6894.3	9206.8	11511.7	11709.2	11523.5	11190.7	9344.2
67.5°	2083.7	2079.5	2427.3	3372.0	4825.6	7221.8	10409.1	10826.8	10788.1	10042.0	7745.7
70°	1019.9	1035.9	1178.7	1747.8	2798.8	4982.3	8649.6	9100.5	9114.4	7887.4	5355.9
72.5°	461.6	469.1	571.1	851.3	1438.5	2652.8	5960.3	6390.8	6311.4	5026.3	2957.6
75°	243.7	259.8	314.5	428.3	693.5	1094.0	3242.1	3658.7	3492.3	2296.4	1088.6
77.5°	180.4	185.7	213.6	272.7	371.5	426.2	1398.8	1664.0	1558.8	830.9	360.7
80°	132.0	136.3	158.9	193.3	234.1	216.9	527.1	604.4	542.1	282.3	110.6
82.5°	80.5	81.6	116.0	143.9	147.1	121.3	173.9	186.8	195.4	158.9	60.1
85°	29.0	36.5	78.4	104.1	87.0	61.2	73.0	80.5	88.1	100.9	35.4
87.5°	3.2	4.3	37.6	50.5	24.7	22.5	26.8	30.0	32.2	37.6	17.2
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°	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4
2.5°	1606.1	1610.3	1607.1	1601.8	1600.7	1597.5	1591.0	1591.0	1591.0	1593.1	1591.0
5°	1629.6	1632.9	1625.3	1614.6	1602.8	1587.8	1571.7	1562.0	1561.0	1558.8	1553.4
7.5°	1674.8	1679.1	1661.8	1636.1	1603.9	1567.4	1533.1	1500.8	1485.8	1474.0	1474.0
10°	1740.2	1744.5	1710.2	1664.0	1599.6	1525.5	1443.9	1369.8	1311.9	1285.0	1278.6
12.5°	1818.6	1820.8	1763.8	1683.3	1577.0	1434.2	1260.3	1098.3	985.5	934.0	928.6
15°	1904.4	1889.5	1814.3	1690.8	1512.6	1246.4	945.8	747.2	630.2	595.8	608.7
17.5°	1991.4	1963.5	1853.0	1679.1	1367.7	945.8	635.5	509.9	473.4	463.8	463.8
20°	2073.1	2034.4	1880.9	1627.5	1116.5	651.6	471.3	441.2	434.8	428.3	429.4
22.5°	2154.6	2095.6	1905.5	1512.6	832.0	465.9	421.9	412.3	403.7	395.1	394.0
25°	2234.0	2152.5	1915.2	1300.1	566.8	400.4	385.4	372.6	355.3	345.7	343.5
27.5°	2316.7	2221.2	1908.7	1031.7	413.4	358.6	343.5	325.3	304.9	287.7	287.7
30°	2475.6	2352.1	1886.2	741.8	347.8	315.6	296.3	267.4	244.7	227.6	226.5
32.5°	2692.5	2522.8	1808.9	521.8	309.2	278.0	249.1	216.9	193.3	180.4	180.4
35°	2885.7	2694.6	1664.0	384.3	278.0	241.5	206.1	175.0	156.8	148.2	144.9
37.5°	3179.8	2945.9	1464.3	312.4	248.0	209.3	172.8	143.9	128.8	122.4	122.4
40°	3621.1	3252.8	1219.5	273.7	219.0	178.2	143.9	121.3	109.5	102.0	102.0
42.5°	4168.6	3628.6	971.5	245.8	192.2	153.5	120.3	103.0	92.3	87.0	85.9
45°	4857.8	4024.8	748.2	220.1	170.7	130.9	102.0	87.0	76.2	73.0	74.1
47.5°	5577.1	4373.6	579.7	197.6	148.2	110.6	87.0	75.2	67.6	63.3	63.3
50°	6191.2	4614.1	440.2	171.7	130.9	93.4	76.2	67.6	61.2	59.0	57.9
52.5°	6704.3	4683.9	337.1	149.2	114.9	80.5	67.6	61.2	55.8	52.6	52.6
55°	7141.3	4622.7	264.1	125.6	96.6	69.8	60.1	54.7	48.3	45.1	44.0
57.5°	7396.8	4426.3	201.8	104.1	78.4	57.9	52.6	46.2	38.7	33.3	33.3
60°	7525.6	4140.7	154.6	85.9	60.1	46.2	43.0	34.3	26.8	22.5	21.4
62.5°	7371.0	3761.7	117.0	67.6	45.1	34.3	29.0	24.7	17.2	12.9	12.9
63°	7275.4	3652.2	112.7	64.4	41.9	32.2	26.8	22.5	15.1	11.8	10.8
65°	6632.4	3174.5	92.3	51.6	33.3	22.5	18.2	16.1	10.8	5.4	4.3
67.5°	5266.8	2428.4	73.0	38.7	23.6	16.1	10.8	9.7	3.2	0.0	0.0
70°	3561.0	1568.5	56.9	27.9	16.1	9.7	5.4	4.3	1.1	0.0	0.0
72.5°	1857.3	804.1	44.0	20.4	9.7	6.5	3.2	1.1	0.0	0.0	0.0
75°	657.0	273.7	32.2	12.9	6.5	3.2	1.1	0.0	0.0	0.0	0.0
77.5°	198.6	102.0	20.4	9.7	4.3	2.2	0.0	0.0	0.0	0.0	0.0
80°	69.8	37.6	11.8	6.5	3.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	34.3	18.2	7.5	5.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0
85°	19.3	11.8	6.5	5.4	3.2	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	8.6	6.5	5.4	4.3	2.2	1.1	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)