

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: P452098

Luminaire Tested: **GALN-SA3A-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9734 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

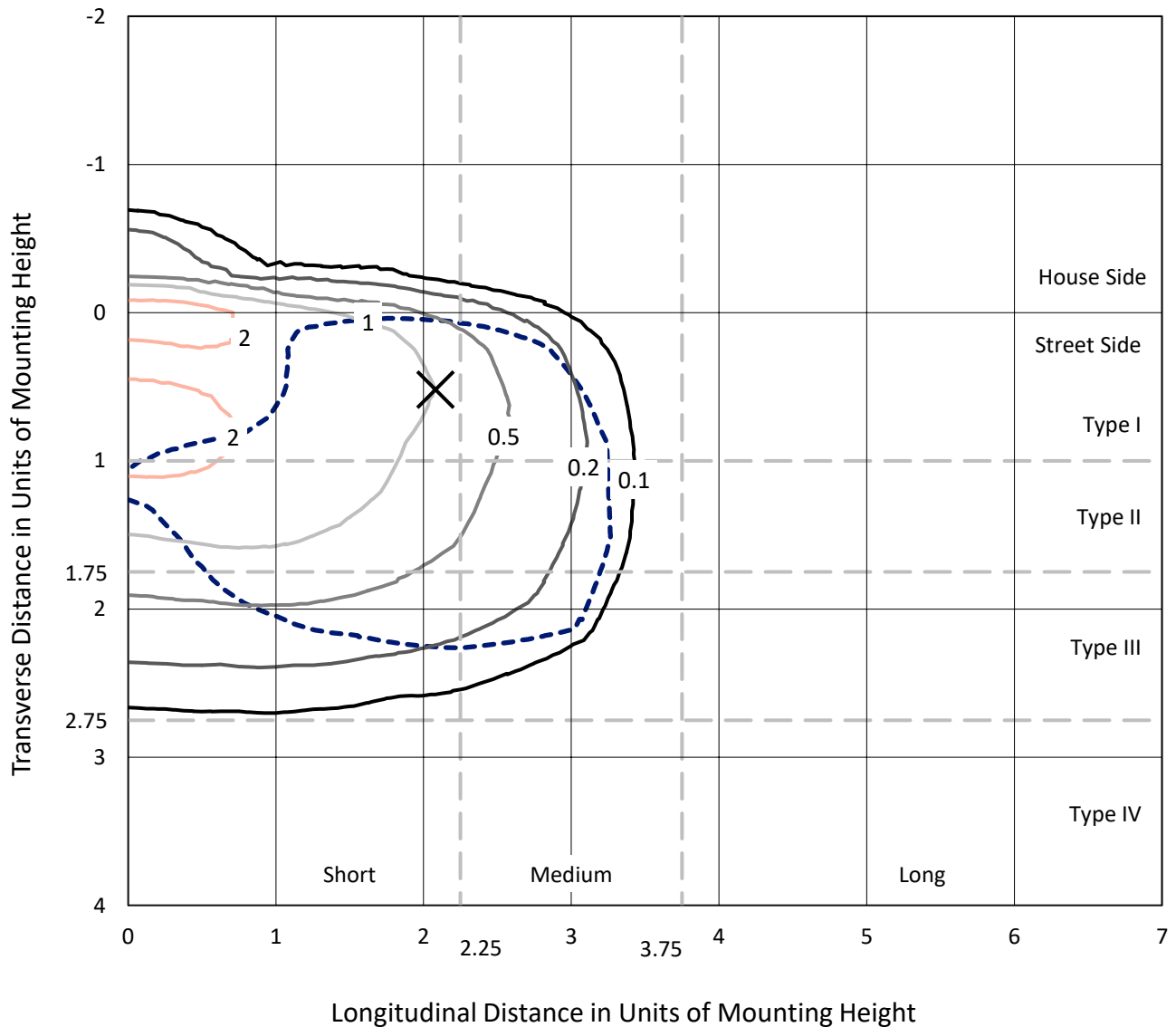
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

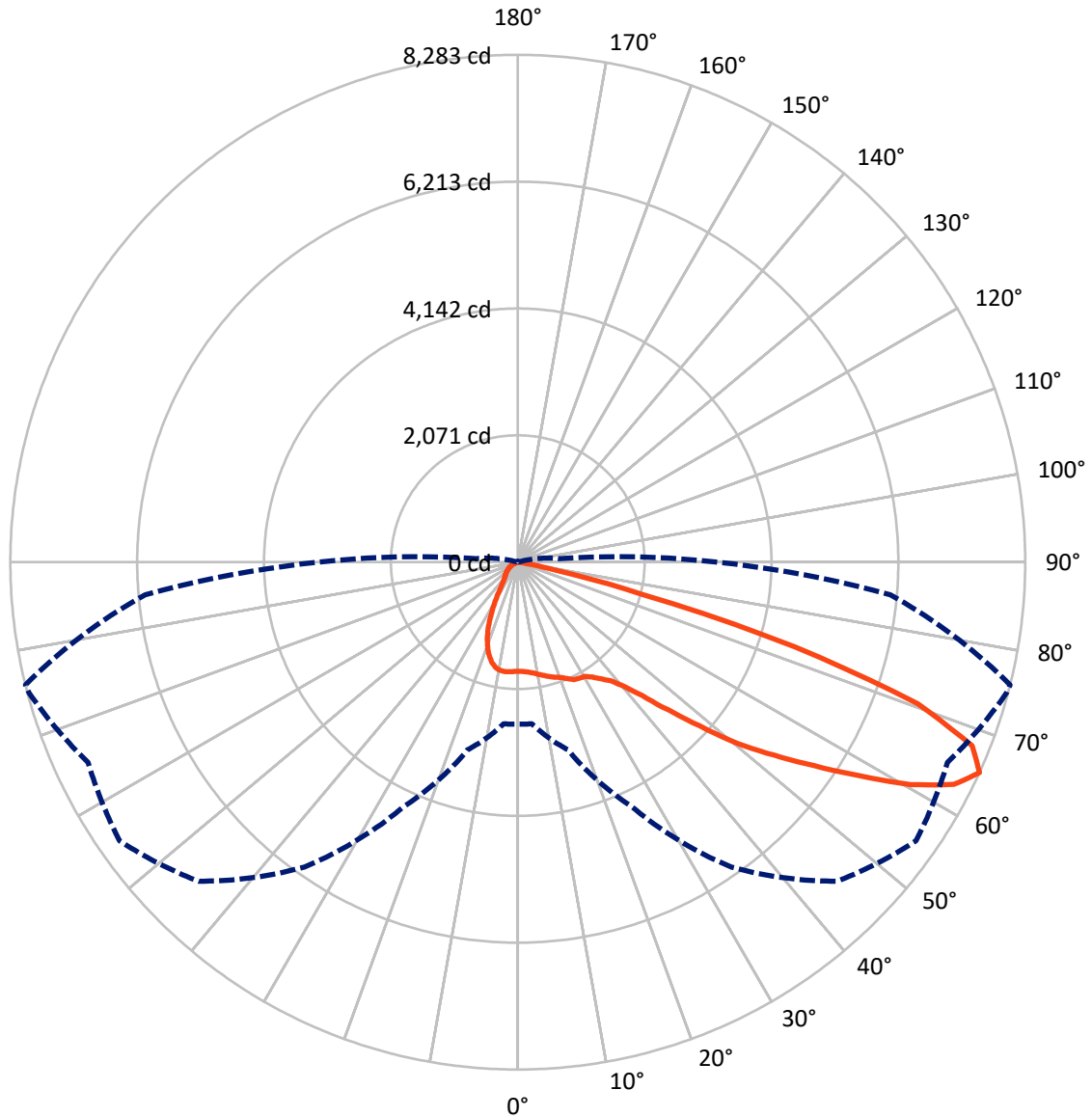
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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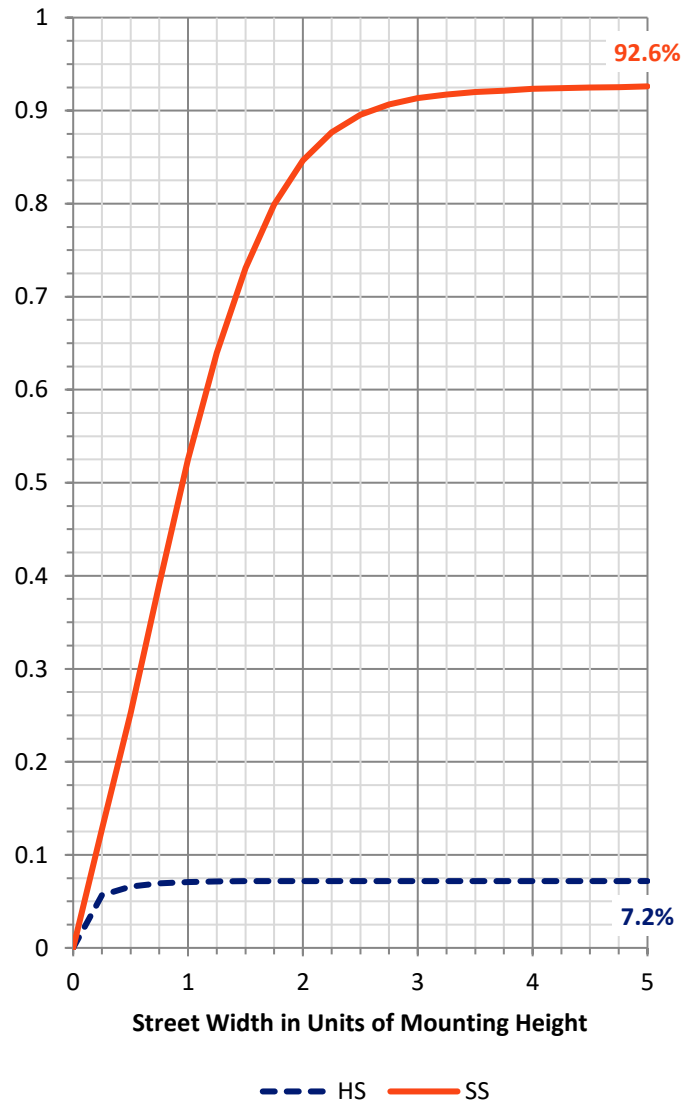
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	703.0	0.0	703.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	9031.0	0.0	9031.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	9734.0	0.0	9734.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.7	1.5
10°-20°	326.6	3.4
20°-30°	526.3	5.4
30°-40°	915.1	9.4
40°-50°	1512.1	15.5
50°-60°	2335.9	24.0
60°-70°	2852.5	29.3
70°-80°	1082.6	11.1
80°-90°	36.1	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°	9734.0	100.0
0°-180°	9734.0	100.0



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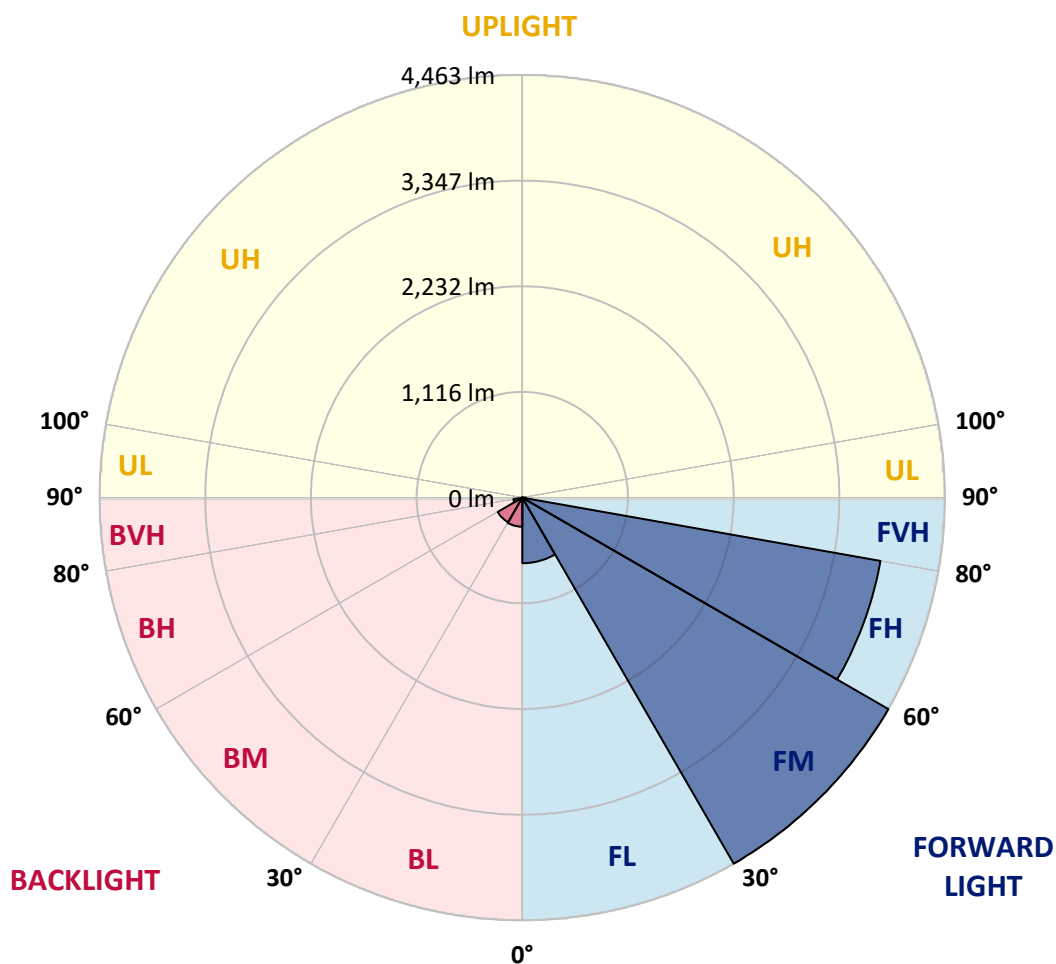
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.5	7.1			
FM (30°-60°)	4463.2	45.9			
FH (60°-80°)	3839.7	39.4			G2/5000
FVH (80°-90°)	35.6	0.4			G1/100
BL (0°-30°)	307.1	3.2	B1/500		
BM (30°-60°)	300.0	3.1	B1/1000		
BH (60°-80°)	95.4	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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°	65°	75°	76°	85°
0°	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7
2.5°	1701.6	1702.3	1706.4	1716.7	1732.6	1745.6	1756.6	1774.5	1786.8	1788.2	1792.3
5°	1584.1	1575.9	1584.1	1610.9	1635.0	1671.4	1716.1	1760.7	1800.6	1803.3	1822.6
7.5°	1452.2	1459.0	1472.1	1499.6	1544.9	1600.6	1665.2	1744.9	1820.5	1827.4	1865.2
10°	1318.1	1333.3	1354.6	1396.5	1459.7	1531.9	1619.8	1733.9	1852.1	1861.8	1927.0
12.5°	1194.4	1201.3	1227.4	1283.8	1362.1	1463.8	1585.5	1727.7	1887.2	1898.9	1993.0
15°	1099.6	1108.5	1131.2	1182.1	1269.3	1399.9	1557.3	1725.7	1921.5	1938.0	2059.0
17.5°	1081.7	1087.2	1096.8	1131.2	1207.5	1349.1	1531.9	1725.0	1954.5	1974.5	2120.2
20°	1155.3	1150.5	1140.8	1137.4	1179.3	1309.9	1513.3	1730.5	1986.1	2008.8	2184.8
22.5°	1339.4	1345.6	1289.3	1222.6	1208.9	1303.7	1510.6	1756.6	2036.3	2063.1	2256.9
25°	1730.5	1683.1	1595.1	1435.7	1315.4	1341.5	1541.5	1818.5	2094.7	2124.3	2322.2
27.5°	2162.8	2148.3	2011.6	1749.0	1525.0	1421.2	1596.5	1865.9	2114.0	2144.2	2359.3
30°	2587.5	2604.7	2448.0	2158.0	1829.5	1569.0	1648.0	1883.7	2131.2	2162.8	2406.7
32.5°	2981.3	3001.9	2864.4	2577.2	2188.2	1824.6	1736.7	1953.2	2203.3	2235.6	2485.8
35°	3291.2	3294.0	3190.2	2961.4	2579.9	2135.3	1928.4	2074.8	2300.9	2338.7	2569.6
37.5°	3575.8	3571.6	3450.0	3252.7	2906.4	2443.9	2169.6	2215.0	2412.2	2451.4	2690.6
40°	3786.7	3789.5	3750.3	3564.8	3210.8	2729.1	2360.7	2346.3	2599.2	2660.3	2866.5
42.5°	3927.6	3953.0	3972.3	3878.1	3593.6	3080.2	2654.2	2627.3	2923.6	2974.4	3115.3
45°	4041.7	4087.1	4183.3	4178.5	3961.3	3511.1	3056.9	3001.9	3383.3	3437.6	3432.1
47.5°	4124.9	4170.9	4330.3	4426.6	4307.0	3929.0	3563.4	3516.0	3932.4	3991.5	3781.9
50°	4167.5	4222.5	4425.9	4612.1	4577.1	4331.7	4140.7	4143.4	4595.6	4652.7	4187.4
52.5°	4067.8	4139.3	4476.7	4812.1	4880.1	4717.3	4681.5	4772.2	5186.0	5234.8	4553.7
55°	3749.6	3839.7	4407.3	4982.5	5231.3	5172.2	5295.9	5434.1	5831.3	5862.9	4929.6
57.5°	3548.3	3643.8	4202.5	5127.6	5653.3	5744.0	5939.9	6040.9	6497.2	6577.6	5361.2
60°	3378.5	3453.4	4034.1	5158.5	6082.1	6443.6	6634.0	6738.5	7319.2	7371.4	5836.1
62.5°	3096.1	3182.0	3749.6	4942.7	6297.9	7003.7	7398.2	7351.5	7954.9	7991.3	6127.5
65°	2641.8	2649.3	3172.3	4400.4	6075.3	7367.3	7935.0	7739.1	8258.7	8283.4	6104.8
67.5°	1971.7	2044.6	2440.4	3458.9	5131.7	7056.7	8108.8	7749.4	8066.9	7998.2	5620.3
70°	1270.0	1325.7	1654.2	2398.5	3700.1	5889.0	7532.2	7218.2	7080.0	6927.5	4600.4
72.5°	586.2	657.7	982.8	1370.4	2194.4	4195.0	6114.4	5864.3	5095.9	4719.3	2924.2
75°	255.7	273.5	485.2	723.0	1028.8	2218.4	4031.4	3640.4	2301.6	2102.3	1170.4
77.5°	156.0	167.7	254.3	387.6	404.1	845.3	2171.7	1588.2	711.3	627.5	317.5
80°	105.8	118.9	184.9	202.7	138.1	235.7	815.1	424.0	143.6	137.4	68.0
82.5°	51.5	65.3	136.8	113.4	59.8	75.6	237.1	90.7	41.9	39.2	24.1
85°	7.6	13.1	77.0	74.2	26.8	17.9	41.9	22.7	14.4	13.7	11.0
87.5°	0.0	0.0	26.1	11.7	2.7	2.7	4.8	4.8	5.5	4.8	5.5
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°	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7	1780.7
2.5°	1794.4	1797.8	1784.8	1766.2	1746.3	1726.4	1698.2	1672.8	1657.6	1666.6	1644.6
5°	1826.7	1824.0	1789.6	1733.2	1658.3	1568.3	1479.0	1402.7	1377.9	1340.8	1336.7
7.5°	1871.4	1863.8	1791.0	1661.8	1492.7	1323.6	1158.7	1049.4	986.9	934.0	935.3
10°	1933.9	1911.9	1775.2	1536.0	1257.7	1002.7	792.4	648.1	585.5	565.6	549.8
12.5°	1998.5	1955.9	1731.2	1366.2	979.3	685.2	481.8	393.8	355.3	342.9	341.6
15°	2056.2	1988.9	1654.2	1162.1	712.0	437.8	328.5	299.6	294.8	295.5	294.8
17.5°	2113.3	2015.0	1547.7	945.7	483.8	314.1	282.5	275.6	277.6	280.4	279.7
20°	2160.7	2020.5	1411.6	721.6	342.2	275.6	265.3	263.9	266.0	268.0	268.0
22.5°	2212.3	2024.6	1250.1	499.6	279.7	256.3	250.8	250.8	253.6	256.3	257.0
25°	2250.7	2002.0	1057.0	358.7	246.7	237.8	235.0	235.7	238.5	239.8	239.2
27.5°	2256.9	1938.0	852.2	274.9	224.0	215.1	212.4	215.1	211.7	213.7	212.4
30°	2262.4	1856.9	644.6	231.6	203.4	189.7	185.6	181.4	178.7	175.2	174.6
32.5°	2279.6	1761.4	470.8	208.2	184.2	169.1	159.4	147.8	138.8	136.1	135.4
35°	2287.2	1646.6	345.7	189.7	167.0	150.5	133.3	116.8	103.8	99.0	102.4
37.5°	2316.0	1535.3	268.0	175.9	151.9	131.3	109.3	88.7	76.3	73.5	74.9
40°	2375.1	1414.4	224.7	164.3	138.8	113.4	86.6	66.7	58.4	55.7	55.0
42.5°	2470.0	1294.1	200.0	153.3	125.8	95.5	68.0	52.2	45.4	43.3	43.3
45°	2585.4	1178.6	182.8	141.6	112.0	77.0	53.6	41.9	37.8	36.4	36.4
47.5°	2737.3	1077.6	168.4	129.9	96.9	61.2	43.3	36.4	33.7	34.4	35.0
50°	2891.3	1002.7	152.6	116.8	79.7	50.2	37.1	32.3	31.6	32.3	32.3
52.5°	3007.4	958.7	131.3	99.0	62.5	41.9	33.0	30.2	29.6	28.2	28.2
55°	3164.1	949.1	104.5	80.4	49.5	35.0	29.6	27.5	25.4	24.1	23.4
57.5°	3365.5	960.1	80.4	62.5	38.5	28.9	26.1	22.7	19.9	17.2	17.2
60°	3490.5	935.3	62.5	48.1	28.2	23.4	19.9	16.5	13.1	11.0	10.3
62.5°	3450.7	830.9	49.5	35.7	19.9	17.2	13.1	11.0	7.6	5.5	4.8
65°	3245.2	670.8	39.9	24.7	14.4	10.3	6.9	6.9	3.4	0.7	0.0
67.5°	2840.4	496.9	31.6	16.5	8.2	4.8	3.4	2.1	0.0	0.0	0.0
70°	2311.9	358.7	24.7	10.3	4.8	3.4	1.4	0.7	0.0	0.0	0.0
72.5°	1468.0	205.5	19.2	6.2	3.4	1.4	0.0	0.0	0.0	0.0	0.0
75°	567.7	80.4	13.1	4.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	160.8	37.8	7.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.9	16.5	4.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.9	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	2.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	0.7	0.0	0.0	0.0	0.0	0.0	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)