

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: P650674

Luminaire Tested: **GALN-SA1C-840-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650674  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4901.3 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

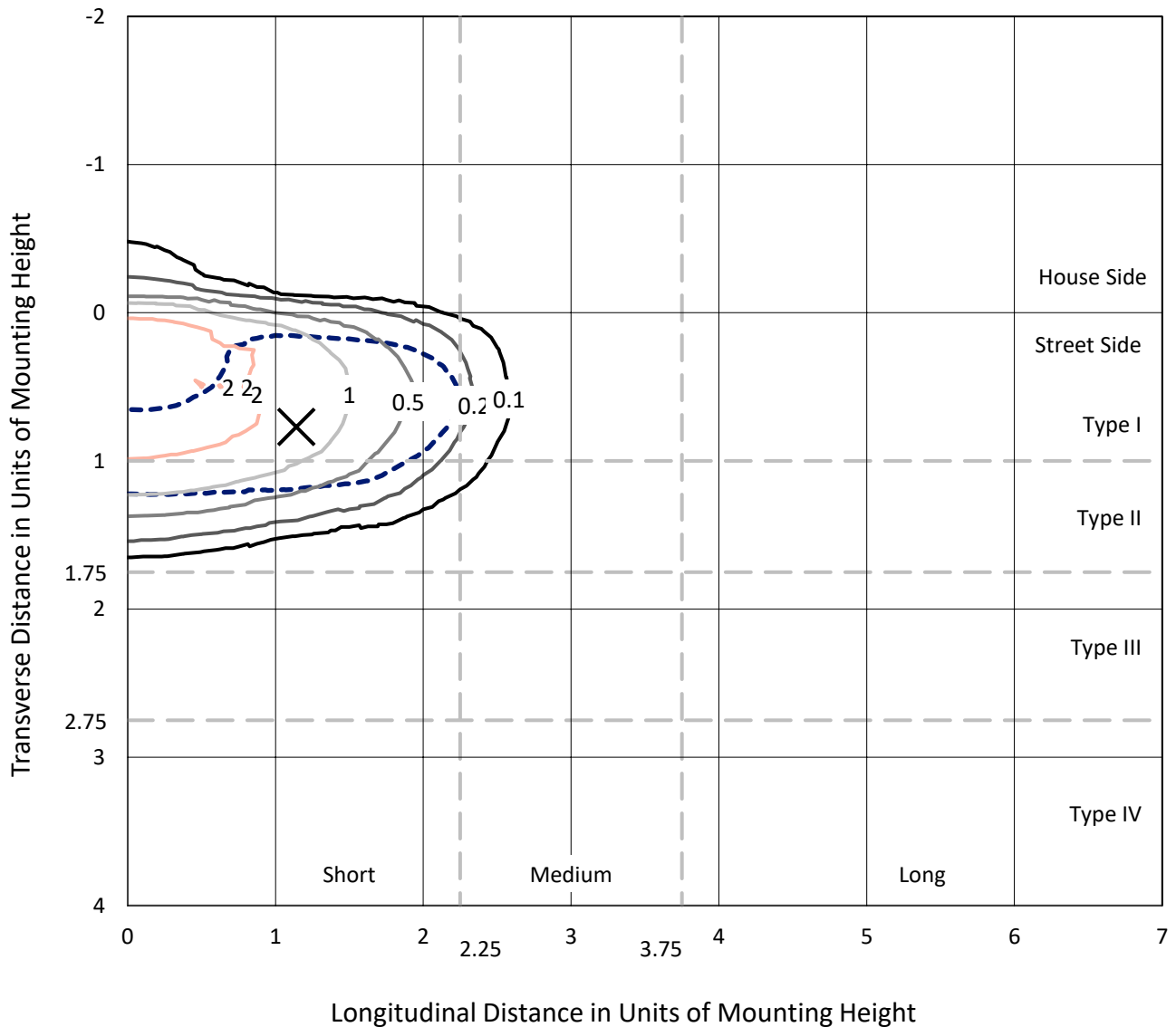
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

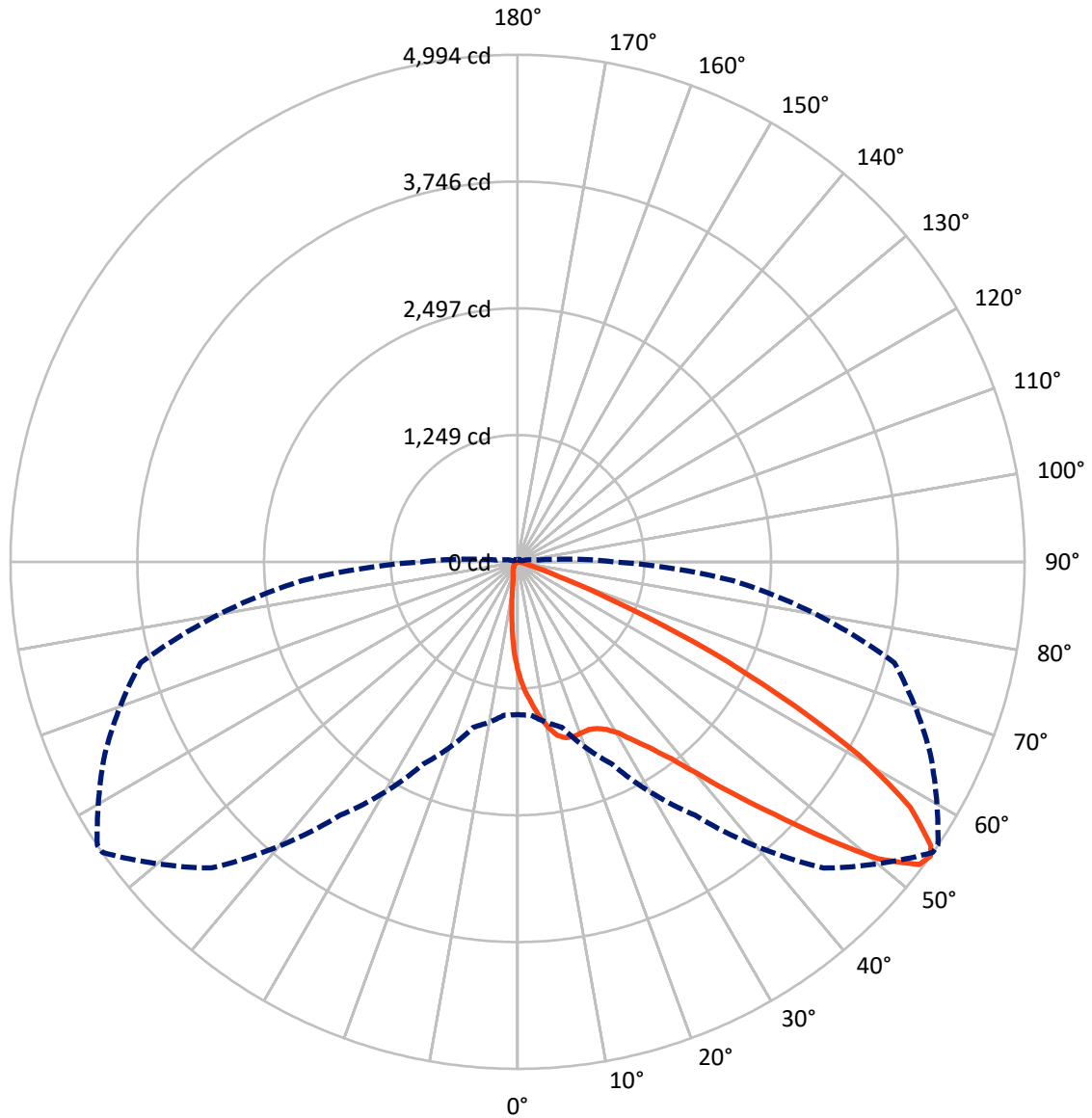
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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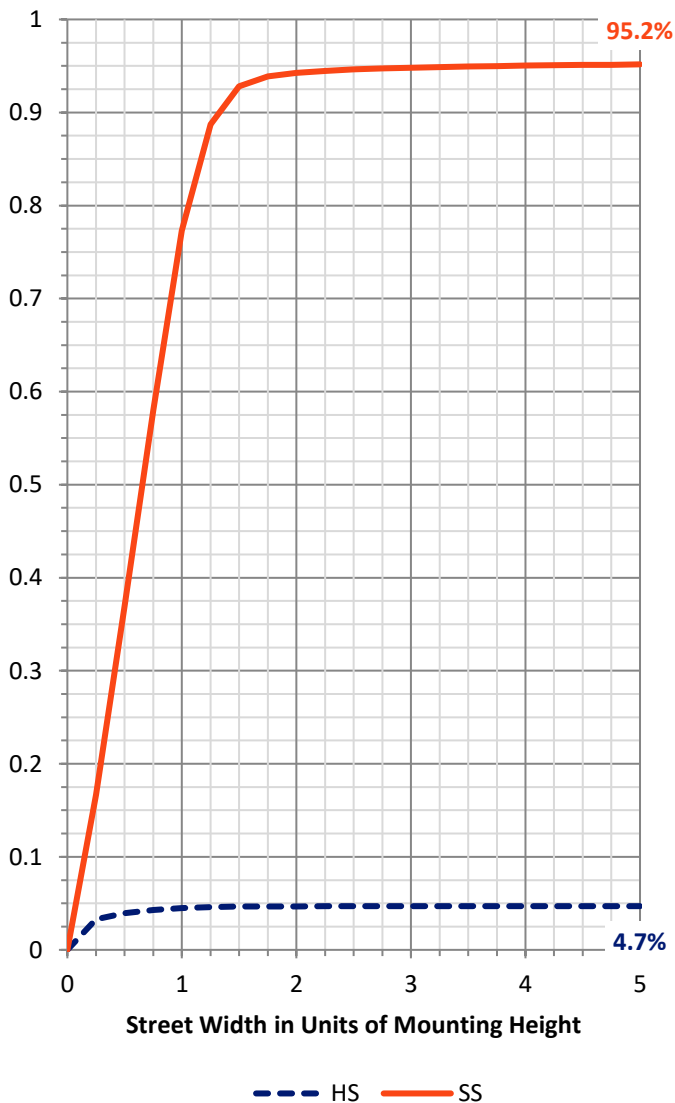
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	231.8	0.0	231.8
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	4669.6	0.0	4669.6
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	4901.3	0.0	4901.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.2	2.0
10°-20°	260.1	5.3
20°-30°	450.5	9.2
30°-40°	777.7	15.9
40°-50°	1323.6	27.0
50°-60°	1309.9	26.7
60°-70°	597.9	12.2
70°-80°	76.8	1.6
80°-90°	8.6	0.2
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°	4901.3	100.0
0°-180°	4901.3	100.0

**Coefficient of Utilization**

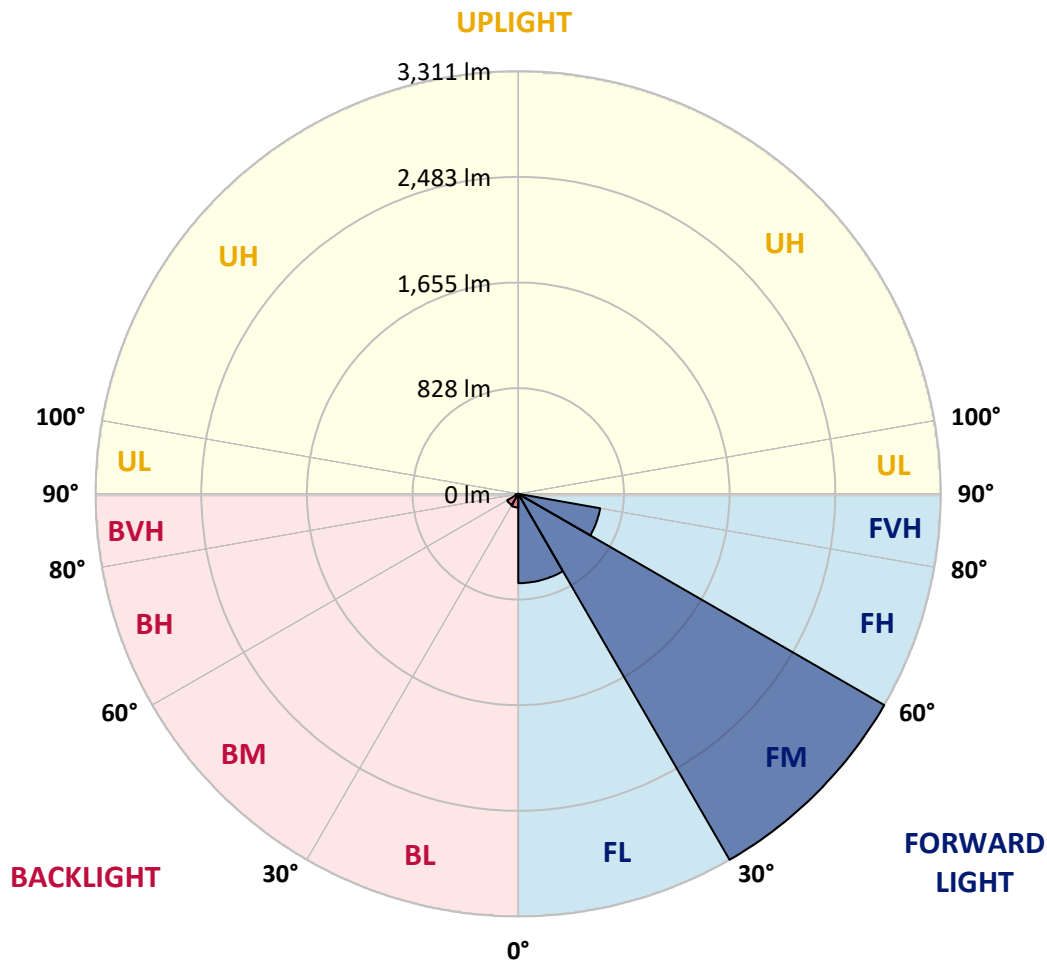


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.7	14.3			
FM (30°-60°)	3310.7	67.5			
FH (60°-80°)	651.4	13.3			G0/660
FVH (80°-90°)	7.7	0.2			G0/10
BL (0°-30°)	107.2	2.2	B0/110		
BM (30°-60°)	100.5	2.0	B0/220		
BH (60°-80°)	23.2	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9
2.5°	1383.9	1374.3	1361.1	1350.8	1326.7	1291.9	1255.3	1255.3	1219.9	1170.6	1120.4
5°	1596.2	1589.9	1577.0	1550.6	1523.5	1474.9	1401.1	1388.2	1325.1	1235.8	1141.8
7.5°	1682.5	1685.5	1686.1	1679.2	1666.3	1618.3	1545.3	1536.3	1435.5	1315.8	1169.9
10°	1599.8	1614.4	1628.6	1657.4	1698.1	1709.7	1668.3	1659.0	1559.8	1396.8	1200.4
12.5°	1476.8	1484.8	1492.7	1538.0	1619.7	1713.3	1756.6	1756.3	1672.2	1477.5	1239.0
15°	1419.6	1426.6	1427.3	1447.4	1518.2	1654.4	1794.3	1799.2	1782.1	1577.0	1280.8
17.5°	1431.6	1437.2	1432.6	1437.4	1474.5	1589.6	1790.0	1806.6	1871.0	1672.6	1318.4
20°	1509.3	1520.1	1502.3	1488.4	1499.7	1572.4	1775.4	1798.6	1933.8	1765.8	1352.8
22.5°	1648.8	1654.8	1632.2	1594.2	1574.4	1608.4	1771.5	1794.3	1987.4	1842.2	1372.7
25°	1803.9	1801.9	1777.1	1734.4	1692.8	1681.2	1797.6	1818.1	2031.7	1911.0	1378.7
27.5°	1958.9	1964.9	1923.3	1870.4	1820.4	1790.3	1856.1	1871.3	2081.6	1989.4	1385.9
30°	2139.2	2129.6	2088.6	2028.1	1970.9	1928.8	1950.4	1954.7	2150.4	2093.2	1405.1
32.5°	2373.6	2347.1	2301.2	2195.4	2154.4	2083.3	2088.6	2093.9	2234.1	2196.1	1428.2
35°	2691.8	2690.4	2600.5	2458.0	2358.1	2269.8	2246.6	2250.9	2360.8	2348.8	1479.5
37.5°	3074.7	3080.0	2977.5	2833.9	2650.1	2509.9	2462.3	2463.0	2553.2	2559.8	1557.5
40°	3386.5	3400.4	3339.3	3242.3	3060.8	2841.6	2761.5	2754.3	2823.7	2815.4	1669.0
42.5°	3520.8	3533.7	3556.5	3590.2	3490.3	3309.5	3120.6	3130.5	3151.7	3093.9	1793.9
45°	3455.0	3475.5	3565.1	3773.4	3867.3	3806.5	3581.3	3546.6	3456.9	3396.5	1919.6
47.5°	3180.8	3230.8	3380.6	3727.5	4056.1	4261.9	4101.1	4055.1	3762.5	3617.3	1999.6
50°	2730.1	2733.1	2941.7	3385.2	3958.3	4549.2	4631.9	4597.5	4047.2	3741.4	2040.0
52.5°	1979.1	2044.3	2235.4	2749.0	3534.3	4505.6	4970.1	4955.9	4340.9	3804.9	2098.2
54°	1504.6	1517.2	1687.1	2196.7	3047.3	4265.8	4991.0	4994.3	4486.7	3843.2	2132.6
55°	1233.4	1203.4	1381.9	1871.3	2714.9	4053.9	4922.9	4938.8	4552.2	3863.0	2158.0
57.5°	584.7	585.0	721.6	987.1	1700.3	3147.8	4506.6	4562.8	4559.5	3897.1	2236.4
60°	295.9	298.0	328.1	455.7	839.9	2092.6	3726.1	3860.0	4208.6	3902.1	2262.2
62.5°	207.0	204.7	199.7	219.2	353.5	1063.4	2774.1	2890.5	3575.7	3713.3	2180.2
65°	177.3	172.3	158.4	155.4	178.5	423.6	1727.8	1917.6	2730.1	3215.2	1946.7
67.5°	151.5	149.4	136.9	129.3	126.3	184.5	891.5	991.4	1866.0	2311.2	1474.5
70°	128.7	127.7	120.0	110.4	102.2	110.4	330.7	409.7	1040.0	1244.3	695.8
72.5°	104.5	105.5	106.8	94.6	86.0	78.4	141.2	164.3	435.2	444.8	243.4
75°	91.6	90.6	90.6	82.3	71.7	58.2	77.7	83.7	133.3	123.7	56.5
77.5°	64.5	62.1	72.7	67.8	59.9	41.4	44.3	46.9	55.3	47.3	26.5
80°	44.7	44.7	46.6	60.8	53.9	30.1	27.1	29.1	32.7	28.1	15.2
82.5°	25.1	25.8	30.4	32.4	31.5	20.2	17.8	18.2	21.9	19.2	9.6
85°	2.9	5.0	17.5	17.2	12.9	8.9	9.9	10.3	13.5	11.9	5.6
87.5°	0.3	0.7	3.6	4.6	3.3	3.6	3.6	3.6	4.6	5.3	4.0
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°	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9	1088.9
2.5°	1093.2	1068.1	1008.3	938.8	894.5	822.4	761.5	717.5	706.7	685.5	691.8
5°	1092.0	1039.6	917.6	788.7	651.1	548.6	472.2	412.0	385.6	368.0	355.8
7.5°	1092.5	1010.9	815.1	609.8	445.4	344.9	274.2	237.4	212.9	202.7	204.0
10°	1094.6	978.5	696.1	451.7	300.6	222.9	179.6	162.1	153.7	152.5	152.1
12.5°	1099.2	943.1	582.3	335.3	210.3	162.1	145.5	139.5	136.9	136.9	135.9
15°	1104.1	904.1	487.8	249.4	162.1	139.2	131.6	128.7	127.0	127.0	126.7
17.5°	1104.1	859.1	399.5	193.4	139.5	128.0	122.0	118.1	116.7	116.7	116.4
20°	1097.2	806.9	321.1	155.8	126.7	117.4	111.4	107.1	105.5	104.8	104.5
22.5°	1073.0	737.1	255.6	133.9	116.1	108.2	100.5	95.5	94.3	93.6	93.9
25°	1030.1	658.4	202.3	117.7	106.5	96.9	90.2	86.6	85.3	85.3	85.6
27.5°	985.7	576.1	160.4	105.5	94.9	86.3	81.0	78.7	78.4	79.4	79.7
30°	944.8	493.4	129.9	95.5	84.7	77.4	73.8	73.1	73.1	73.4	73.8
32.5°	899.1	420.9	108.8	87.0	76.4	70.1	68.1	68.1	68.8	68.8	69.5
35°	870.4	358.8	95.5	78.7	70.1	64.8	63.5	63.8	64.8	66.1	66.8
37.5°	854.8	309.2	87.0	72.1	64.2	60.6	59.2	59.9	62.1	64.5	64.8
40°	856.1	271.8	80.1	66.4	59.5	55.6	54.6	56.5	58.9	61.1	61.5
42.5°	870.7	244.1	73.4	59.9	55.6	50.0	49.6	51.6	52.6	54.9	55.3
45°	887.8	223.9	66.4	52.9	48.3	43.3	43.6	45.3	46.6	50.3	51.0
47.5°	893.1	210.0	58.5	45.0	39.7	38.0	38.3	39.4	42.0	45.3	45.7
50°	899.1	201.4	51.0	38.0	33.7	33.4	33.7	34.4	36.1	37.3	37.0
52.5°	924.6	201.1	44.7	33.1	28.8	29.4	29.8	29.4	28.1	26.2	25.5
54°	948.4	202.0	41.6	30.8	26.5	27.4	27.1	25.5	22.1	20.2	19.2
55°	967.6	203.0	40.0	29.1	25.1	25.5	25.8	22.5	18.2	16.2	15.6
57.5°	1005.2	200.7	36.1	25.5	22.1	20.9	20.5	14.9	9.9	8.6	7.9
60°	986.4	181.2	32.7	21.9	18.8	16.9	13.9	8.2	5.0	3.6	3.6
62.5°	912.3	153.7	29.1	17.8	15.6	12.9	7.3	4.6	2.4	1.3	1.0
65°	816.1	129.3	26.2	14.2	12.2	8.2	4.0	2.9	1.0	0.0	0.0
67.5°	606.8	95.9	22.1	11.3	9.3	5.3	2.6	1.7	0.3	0.0	0.0
70°	281.1	58.5	18.8	8.6	6.6	4.0	2.0	1.0	0.0	0.0	0.0
72.5°	80.7	36.7	15.6	6.3	4.6	3.3	1.7	0.7	0.3	0.0	0.0
75°	28.1	29.4	11.6	4.6	3.6	2.4	1.3	0.7	0.3	0.0	0.0
77.5°	16.9	23.8	7.3	4.0	2.9	2.0	1.3	0.7	0.3	0.3	0.0
80°	9.6	15.9	4.6	3.3	2.6	1.7	1.0	0.7	0.3	0.3	0.0
82.5°	5.3	7.6	3.6	2.9	2.4	1.7	1.0	0.7	0.3	0.3	0.3
85°	4.3	4.0	2.9	2.6	2.0	1.3	1.0	0.3	0.0	0.0	0.0
87.5°	3.3	2.6	2.6	2.6	2.0	1.3	1.0	0.3	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)