

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: P651167

Luminaire Tested: **GALN-SA1D-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-840-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4910.6 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

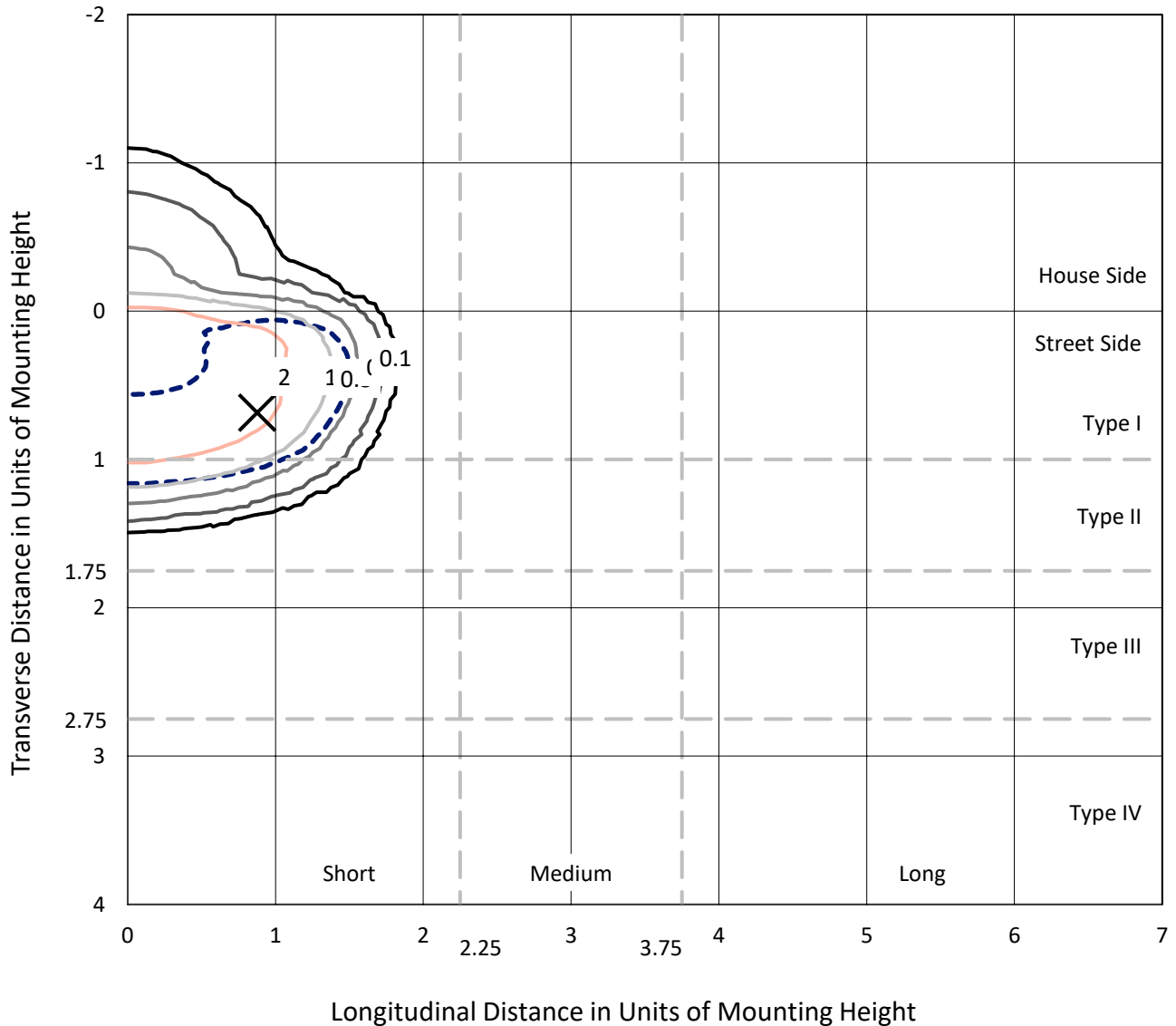
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

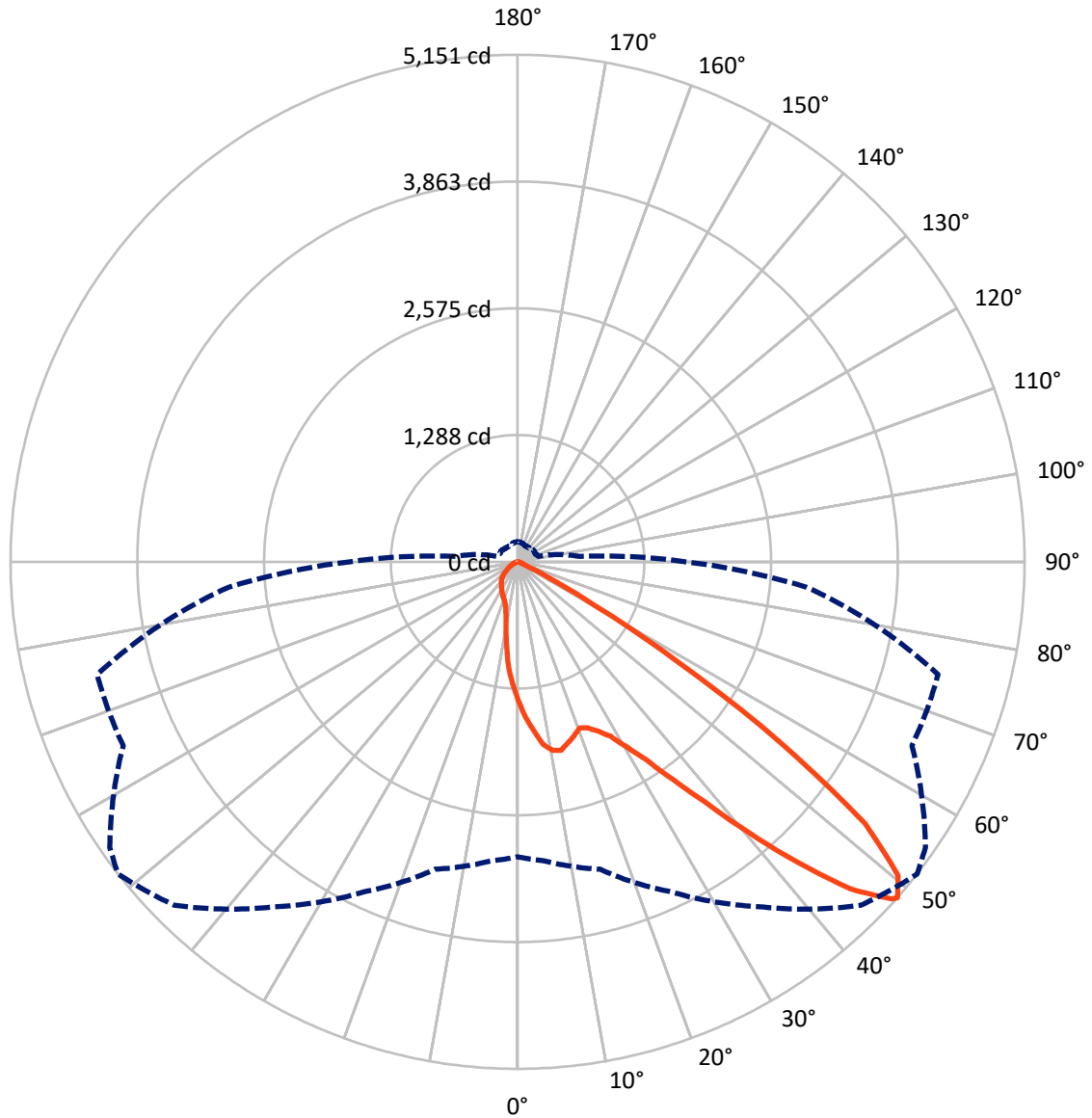
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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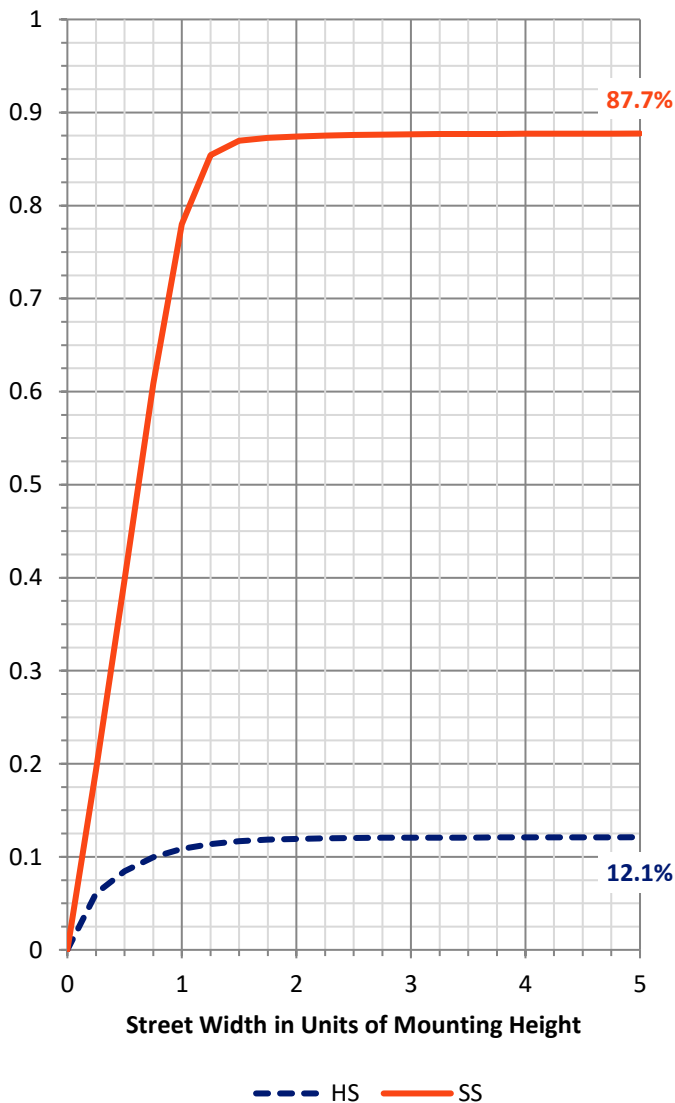
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	597.9	0.0	597.9
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	4312.7	0.0	4312.7
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	4910.6	0.0	4910.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.8	2.6
10°-20°	339.2	6.9
20°-30°	579.2	11.8
30°-40°	1066.5	21.7
40°-50°	1656.3	33.7
50°-60°	996.8	20.3
60°-70°	115.3	2.3
70°-80°	22.3	0.5
80°-90°	5.2	0.1
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°	4910.6	100.0
0°-180°	4910.6	100.0

**Coefficient of Utilization**

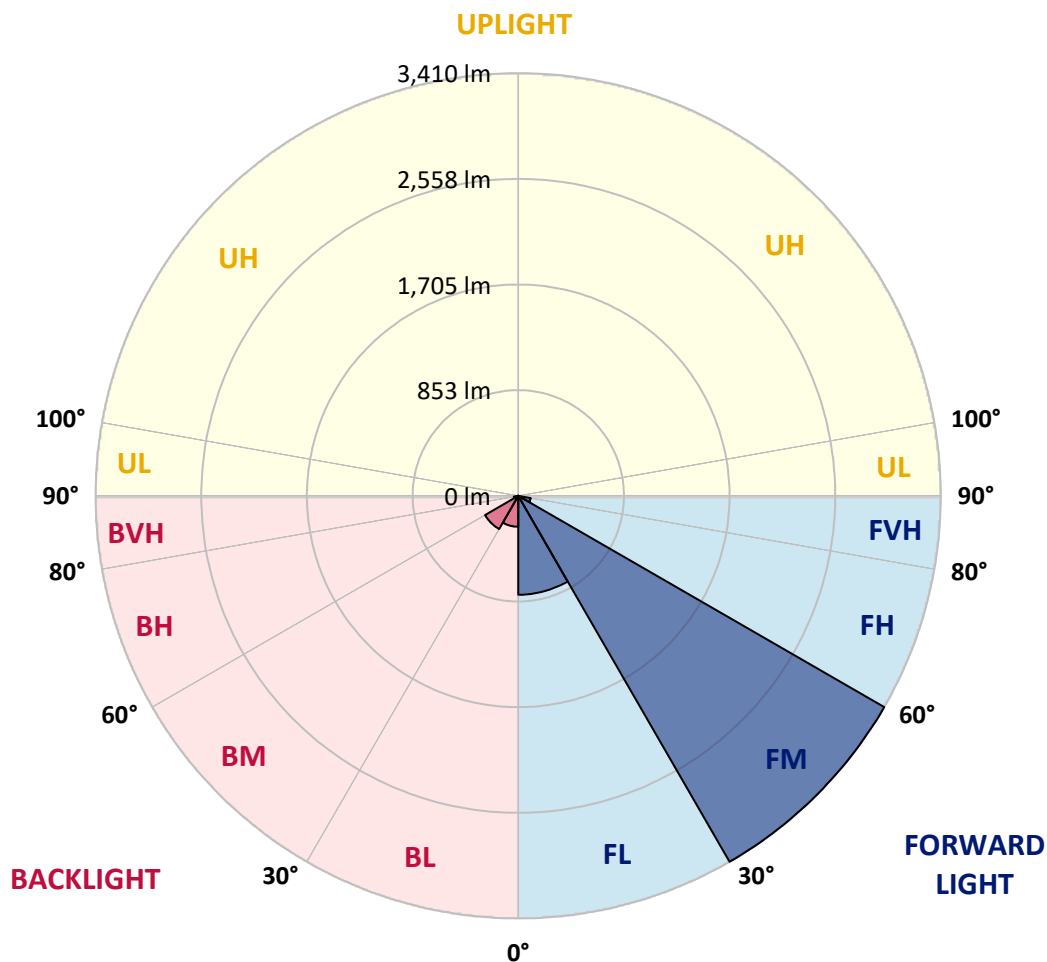


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.4	16.3			
FM (30°-60°)	3410.3	69.4			
FH (60°-80°)	101.5	2.1			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	249.8	5.1	B1/500		
BM (30°-60°)	309.3	6.3	B1/1000		
BH (60°-80°)	36.1	0.7	B0/110		G0/110
BVH (80°-90°)	2.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1
2.5°	1718.8	1679.4	1682.9	1657.2	1642.1	1617.8	1584.9	1578.5	1542.6	1494.0	1444.6
5°	1873.4	1864.1	1876.3	1839.0	1840.4	1800.3	1723.0	1724.5	1642.1	1562.7	1486.1
7.5°	1883.4	1861.9	1874.1	1907.1	1926.4	1919.2	1875.5	1837.6	1759.5	1642.9	1531.2
10°	1686.5	1727.3	1740.2	1794.6	1872.0	1953.6	1948.5	1950.7	1885.5	1733.0	1569.9
12.5°	1568.5	1541.2	1584.9	1617.8	1734.5	1892.7	1965.0	1980.7	1985.8	1820.4	1608.5
15°	1514.7	1514.7	1521.9	1531.2	1615.6	1761.7	1909.2	1955.0	2063.1	1935.0	1669.4
17.5°	1548.4	1546.9	1556.9	1537.7	1569.1	1681.5	1857.6	1909.9	2149.7	2047.3	1717.3
20°	1650.7	1655.8	1649.3	1593.4	1595.6	1680.1	1800.3	1882.7	2208.4	2144.7	1781.1
22.5°	1793.2	1796.0	1759.5	1698.7	1680.8	1722.4	1833.3	1896.3	2255.6	2261.4	1800.3
25°	1957.8	1946.4	1939.3	1853.3	1798.9	1834.7	1907.7	1944.2	2285.0	2361.6	1855.5
27.5°	2186.2	2163.3	2119.7	2043.0	2002.9	1952.1	2004.4	2064.5	2368.8	2501.9	1915.6
30°	2523.3	2503.3	2418.1	2319.4	2214.1	2164.0	2180.5	2213.4	2519.8	2664.4	1995.1
32.5°	3030.9	2988.7	2865.5	2677.2	2534.1	2395.9	2391.6	2426.7	2655.1	2889.2	2089.5
35°	3590.0	3577.1	3396.0	3202.0	2925.0	2711.6	2715.3	2733.8	2914.2	3184.1	2213.4
37.5°	3961.5	4032.3	3917.1	3708.8	3476.2	3171.2	3093.9	3100.3	3270.0	3533.5	2436.7
40°	4248.6	4188.4	4202.1	4153.4	3994.4	3786.9	3615.8	3582.2	3681.6	3920.0	2658.7
42.5°	4123.3	4126.2	4209.9	4325.2	4364.5	4349.5	4174.8	4111.1	4033.9	4236.4	2869.8
45°	3769.7	3843.4	3952.2	4257.1	4524.9	4776.1	4741.8	4635.8	4277.2	4487.0	2991.5
47.5°	3205.6	3202.7	3381.0	3777.5	4372.4	4960.8	5116.9	5042.5	4449.7	4459.1	2966.5
48°	2997.2	3048.8	3232.8	3699.5	4275.8	4933.6	5150.5	5056.8	4420.4	4421.8	2945.0
50°	2215.5	2206.3	2435.3	3008.0	3819.1	4635.8	5008.8	5081.8	4419.6	4233.5	2794.6
52.5°	1170.4	1210.5	1377.3	1891.2	2700.2	3794.0	4418.2	4532.1	4263.6	3925.7	2578.5
55°	497.5	449.5	577.7	854.0	1519.0	2534.9	3241.4	3494.8	3605.0	3474.0	2255.6
57.5°	177.5	194.0	223.4	321.4	638.6	1387.3	1932.8	2129.7	2497.6	2549.2	1536.9
60°	113.8	116.0	125.3	147.4	239.8	534.7	917.0	1073.8	1240.6	1280.7	717.3
62.5°	88.1	88.7	93.1	96.6	113.8	207.6	344.3	408.1	423.8	364.4	188.3
65°	73.8	74.4	75.9	75.9	80.9	97.4	120.3	132.5	128.8	127.4	106.6
67.5°	56.5	57.9	60.9	60.9	63.7	59.4	66.6	70.9	80.1	97.4	90.9
70°	44.4	45.1	47.3	48.7	48.7	43.0	47.9	52.2	58.7	72.3	71.6
72.5°	34.4	35.8	37.3	37.3	35.1	29.4	34.4	37.9	42.2	50.1	48.7
75°	26.5	26.5	27.2	22.2	17.2	15.1	20.8	25.1	31.5	33.0	27.2
77.5°	7.1	7.9	7.1	6.5	7.1	10.8	13.6	15.7	20.0	20.0	17.9
80°	0.0	0.8	2.2	4.3	7.1	10.0	12.2	13.6	15.7	17.2	16.5
82.5°	0.0	0.8	2.2	4.3	6.5	7.9	10.8	11.4	12.9	15.1	15.1
85°	0.0	0.8	1.4	2.9	4.3	5.0	5.0	4.3	4.3	3.6	2.9
87.5°	0.0	0.0	0.8	1.4	1.4	2.2	2.2	2.2	2.2	2.2	2.2
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°	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1	1418.1
2.5°	1425.2	1403.0	1369.4	1316.4	1265.6	1232.7	1201.2	1166.1	1146.8	1145.4	1134.6
5°	1442.4	1392.4	1312.1	1221.2	1123.9	1040.1	955.6	900.5	851.2	823.9	819.0
7.5°	1451.7	1386.6	1257.0	1104.6	938.5	801.7	707.3	637.8	610.7	590.6	589.9
10°	1471.1	1376.5	1174.7	949.9	744.5	606.4	541.2	509.6	494.7	489.0	480.3
12.5°	1485.4	1358.0	1090.3	791.0	588.4	502.5	473.9	466.8	467.4	470.3	466.8
15°	1505.5	1341.5	976.4	649.3	493.9	452.5	452.5	453.9	463.9	465.3	464.6
17.5°	1504.0	1309.3	859.0	534.7	436.6	430.9	433.1	446.7	453.1	455.3	450.3
20°	1521.2	1279.2	738.1	456.7	404.4	413.0	427.4	430.9	438.8	440.3	434.5
22.5°	1516.2	1204.1	625.6	395.2	380.1	396.6	410.9	415.2	413.0	408.7	408.1
25°	1506.9	1139.6	522.6	354.3	362.2	380.1	393.8	385.9	381.6	382.2	383.0
27.5°	1490.4	1058.1	437.4	325.7	337.9	364.4	363.6	360.8	365.1	361.5	365.1
30°	1487.6	976.4	367.3	299.9	320.0	339.3	340.8	345.7	350.8	344.3	350.8
32.5°	1491.8	886.9	317.1	284.2	309.2	310.0	325.7	330.7	327.1	312.9	314.3
35°	1524.7	818.2	280.6	275.6	292.1	292.8	307.8	301.4	285.6	277.0	282.1
37.5°	1594.2	760.9	263.4	267.7	269.1	278.5	279.2	266.3	267.7	267.0	269.9
40°	1682.9	717.3	251.3	260.5	259.1	265.6	239.8	247.0	253.4	255.6	257.0
42.5°	1743.8	685.8	243.4	249.1	246.2	234.8	220.5	227.7	232.6	240.5	242.0
45°	1771.0	660.7	234.1	229.1	229.1	208.3	202.6	204.0	215.5	224.0	222.6
47.5°	1726.7	636.4	217.7	202.6	207.6	190.4	184.0	184.0	196.1	206.9	204.7
48°	1709.4	626.4	218.3	196.9	200.4	187.5	181.2	179.6	193.3	203.3	203.3
50°	1624.2	589.1	199.7	181.2	173.9	172.5	168.2	169.6	178.2	187.5	187.5
52.5°	1458.2	509.0	169.0	155.3	142.5	151.0	153.2	150.3	154.7	163.2	162.5
55°	1216.9	390.8	135.3	128.8	118.8	128.2	132.5	128.8	124.6	131.0	131.0
57.5°	779.5	210.4	108.1	109.5	99.5	108.8	112.4	103.8	96.0	100.9	100.2
60°	351.5	126.0	88.7	86.6	80.1	90.9	96.6	86.6	75.9	79.5	83.0
62.5°	131.7	89.5	67.3	65.9	64.4	74.4	77.3	69.5	58.7	60.9	61.6
65°	96.6	78.7	53.7	48.7	51.6	58.7	57.3	49.4	42.2	42.2	43.6
67.5°	82.3	68.7	43.6	37.9	37.9	38.7	35.8	31.5	29.4	30.8	32.2
70°	64.4	54.4	34.4	29.4	26.5	23.6	20.8	20.0	17.9	20.0	19.3
72.5°	41.5	36.5	26.5	22.2	20.0	16.5	13.6	12.9	10.8	10.0	10.0
75°	22.2	22.2	20.8	17.9	15.7	12.9	10.8	8.6	5.7	4.3	4.3
77.5°	15.7	17.2	18.6	17.2	14.3	10.8	8.6	5.7	2.9	1.4	1.4
80°	15.1	17.2	18.6	16.5	14.3	10.8	7.9	4.3	2.2	0.8	0.8
82.5°	13.6	15.7	17.2	15.1	12.9	9.3	7.1	4.3	2.2	0.8	0.8
85°	2.9	3.6	4.3	4.3	5.0	6.5	5.0	3.6	1.4	0.8	0.8
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	1.4	1.4	0.8	0.8	0.8
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)