

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: P526537

Luminaire Tested: **GALN-SA1C-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526537
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-SA1C-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA 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: 4833 lumens
Efficiency: N/A
Efficacy: 84.8 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

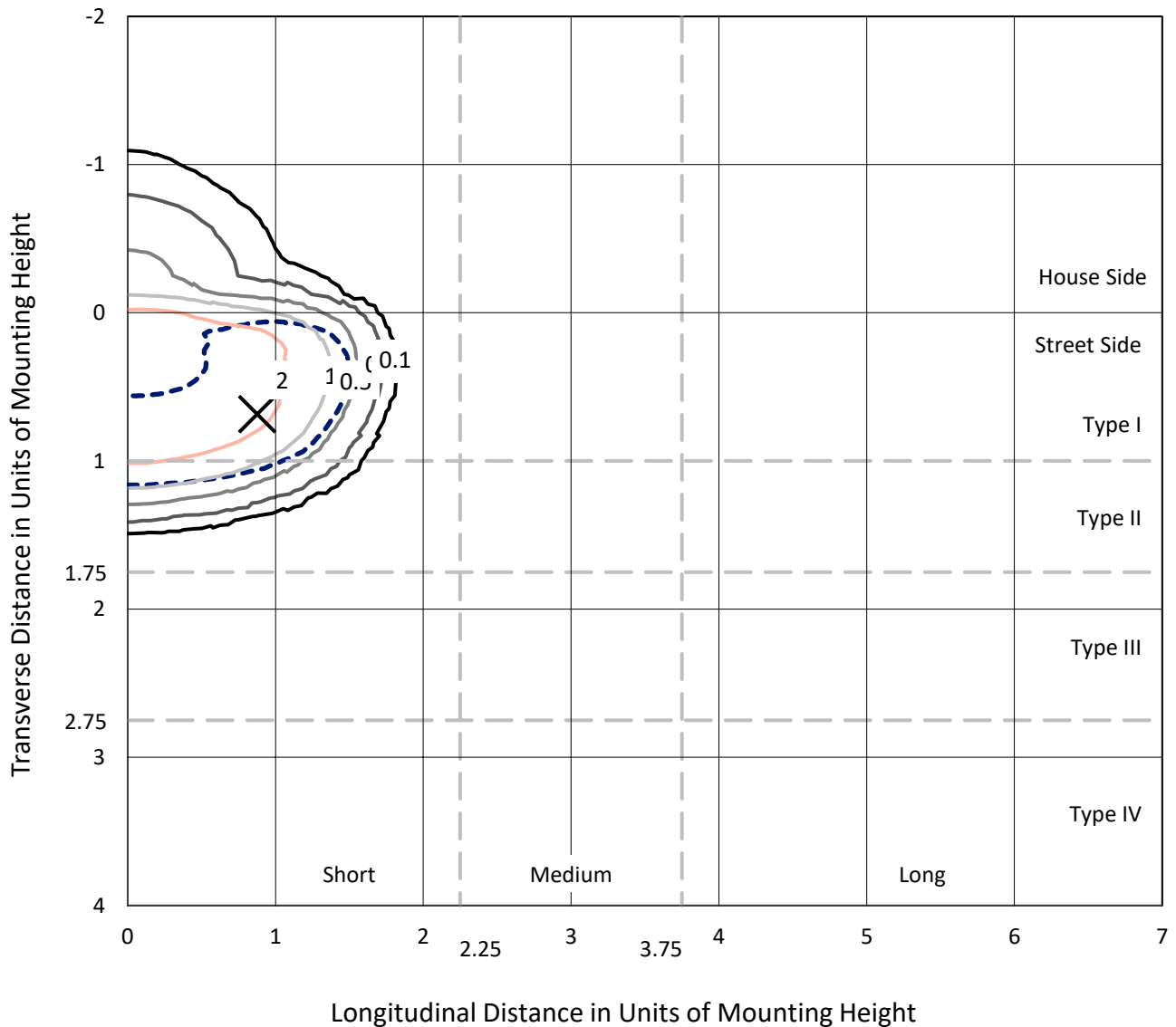
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

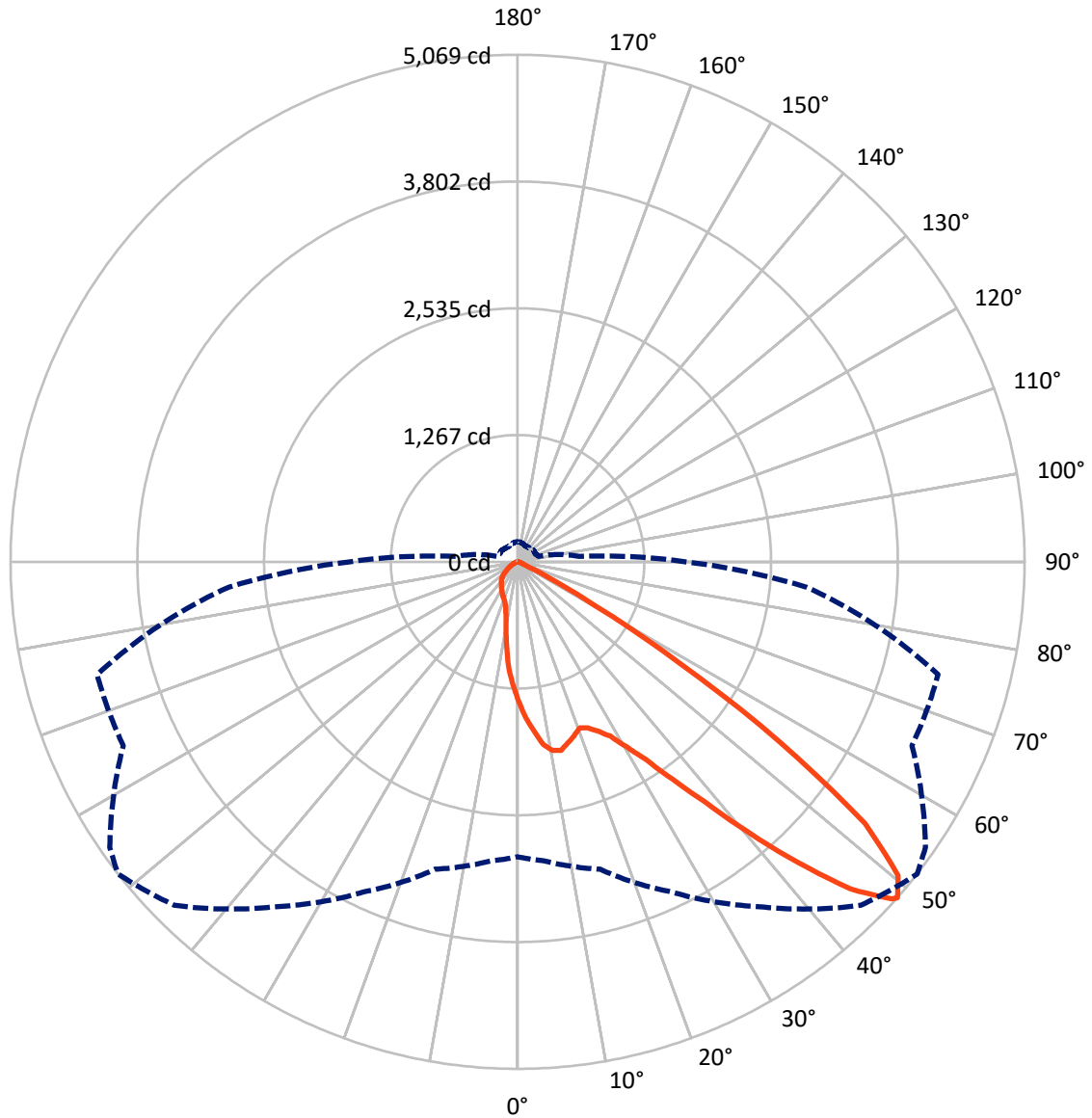
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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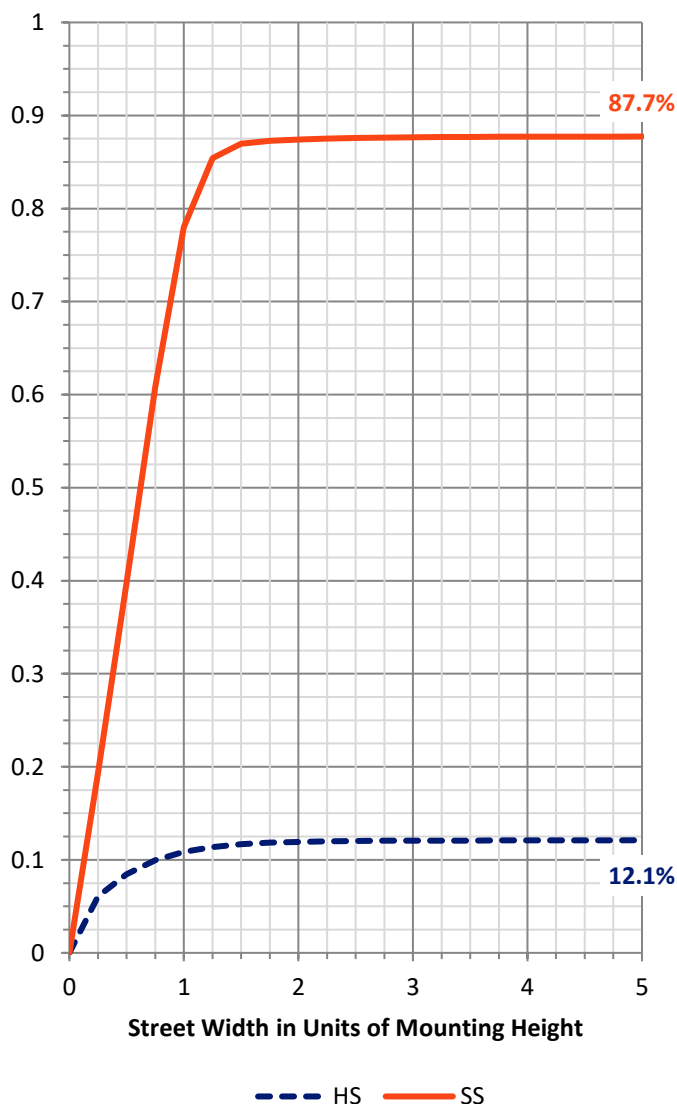
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	588.4	0.0	588.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4244.5	0.0	4244.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	4833.0	0.0	4833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	2.6
10°-20°	333.8	6.9
20°-30°	570.0	11.8
30°-40°	1049.7	21.7
40°-50°	1630.1	33.7
50°-60°	981.1	20.3
60°-70°	113.5	2.3
70°-80°	22.0	0.5
80°-90°	5.1	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°	4833.0	100.0
0°-180°	4833.0	100.0

Coefficient of Utilization

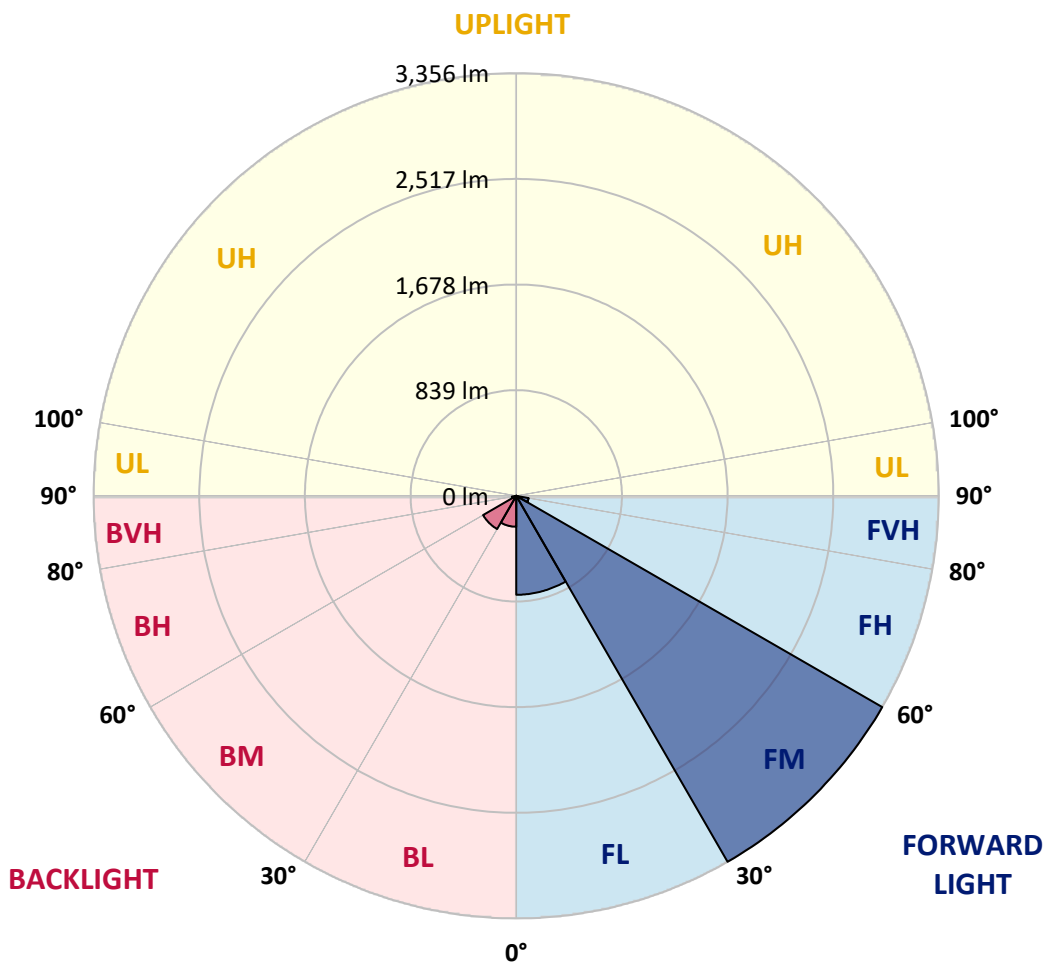


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	785.8	16.3			
FM (30°-60°)	3356.4	69.4			
FH (60°-80°)	99.9	2.1			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	245.8	5.1	B1/500		
BM (30°-60°)	304.5	6.3	B1/1000		
BH (60°-80°)	35.5	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°	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7
2.5°	1691.6	1652.8	1656.4	1631.0	1616.2	1592.3	1559.8	1553.5	1518.3	1470.4	1421.8
5°	1843.8	1834.6	1846.6	1810.0	1811.4	1771.9	1695.8	1697.2	1616.2	1538.0	1462.6
7.5°	1853.6	1832.5	1844.5	1876.9	1895.9	1888.9	1845.9	1808.5	1731.8	1616.9	1507.0
10°	1659.9	1700.1	1712.7	1766.3	1842.4	1922.7	1917.8	1919.9	1855.8	1705.7	1545.1
12.5°	1543.6	1516.9	1559.8	1592.3	1707.1	1862.8	1934.0	1949.5	1954.4	1791.6	1583.1
15°	1490.8	1490.8	1497.8	1507.0	1590.1	1733.9	1879.0	1924.1	2030.5	1904.4	1643.0
17.5°	1523.9	1522.5	1532.4	1513.3	1544.3	1655.0	1828.3	1879.7	2115.7	2015.0	1690.2
20°	1624.7	1629.6	1623.3	1568.3	1570.4	1653.6	1771.9	1852.9	2173.5	2110.8	1752.9
22.5°	1764.9	1767.7	1731.8	1671.9	1654.3	1695.1	1804.3	1866.3	2220.0	2225.6	1771.9
25°	1926.9	1915.6	1908.6	1824.0	1770.5	1805.7	1877.6	1913.5	2248.9	2324.3	1826.2
27.5°	2151.7	2129.1	2086.1	2010.8	1971.3	1921.3	1972.7	2031.9	2331.3	2462.4	1885.3
30°	2483.5	2463.8	2379.9	2282.7	2179.1	2129.8	2146.0	2178.4	2480.0	2622.3	1963.5
32.5°	2983.0	2941.4	2820.3	2635.0	2494.1	2358.1	2353.9	2388.4	2613.1	2843.5	2056.5
35°	3533.3	3520.6	3342.3	3151.4	2878.7	2668.8	2672.3	2690.6	2868.2	3133.8	2178.4
37.5°	3898.9	3968.7	3855.2	3650.2	3421.2	3121.1	3045.0	3051.4	3218.3	3477.6	2398.2
40°	4181.4	4122.3	4135.6	4087.7	3931.3	3727.0	3558.6	3525.5	3623.4	3858.1	2616.7
42.5°	4058.1	4061.0	4143.4	4256.8	4295.6	4280.8	4108.9	4046.2	3970.1	4169.5	2824.5
45°	3710.1	3782.7	3889.8	4189.9	4453.4	4700.7	4666.9	4562.6	4209.6	4416.0	2944.3
47.5°	3154.9	3152.1	3327.5	3717.8	4303.3	4882.4	5036.0	4962.8	4379.4	4388.6	2919.6
48°	2949.9	3000.6	3181.7	3641.1	4208.2	4855.7	5069.2	4976.9	4350.5	4351.9	2898.5
50°	2180.5	2171.4	2396.8	2960.5	3758.7	4562.6	4929.7	5001.5	4349.8	4166.6	2750.5
52.5°	1151.9	1191.4	1355.5	1861.4	2657.5	3734.1	4348.4	4460.4	4196.2	3863.7	2537.7
55°	489.7	442.4	568.6	840.5	1495.0	2494.8	3190.1	3439.6	3548.1	3419.1	2220.0
57.5°	174.7	190.9	219.8	316.3	628.4	1365.4	1902.3	2096.0	2458.1	2508.9	1512.6
60°	112.0	114.1	123.3	145.1	236.0	526.3	902.5	1056.8	1221.0	1260.4	705.9
62.5°	86.7	87.4	91.6	95.1	112.0	204.3	338.9	401.6	417.1	358.6	185.3
65°	72.6	73.3	74.7	74.7	79.6	95.8	118.4	130.3	126.8	125.4	105.0
67.5°	55.7	57.1	59.9	59.9	62.7	58.5	65.5	69.7	78.9	95.8	89.5
70°	43.7	44.4	46.5	47.9	47.9	42.3	47.2	51.4	57.8	71.2	70.5
72.5°	33.8	35.2	36.6	36.6	34.5	28.9	33.8	37.3	41.6	49.3	47.9
75°	26.1	26.1	26.8	21.8	16.9	14.8	20.4	24.7	31.0	32.4	26.8
77.5°	7.0	7.7	7.0	6.3	7.0	10.6	13.4	15.5	19.7	19.7	17.6
80°	0.0	0.7	2.1	4.2	7.0	9.9	12.0	13.4	15.5	16.9	16.2
82.5°	0.0	0.7	2.1	4.2	6.3	7.7	10.6	11.3	12.7	14.8	14.8
85°	0.0	0.7	1.4	2.8	4.2	4.9	4.9	4.2	4.2	3.5	2.8
87.5°	0.0	0.0	0.7	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1
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°	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7	1395.7
2.5°	1402.7	1380.9	1347.8	1295.6	1245.6	1213.2	1182.2	1147.7	1128.7	1127.3	1116.7
5°	1419.6	1370.3	1291.4	1201.9	1106.1	1023.7	940.6	886.3	837.7	810.9	806.0
7.5°	1428.8	1364.7	1237.2	1087.1	923.6	789.1	696.1	627.7	601.0	581.2	580.5
10°	1447.8	1354.8	1156.1	934.9	732.7	596.7	532.6	501.6	486.8	481.2	472.7
12.5°	1461.9	1336.5	1073.0	778.5	579.1	494.6	466.4	459.4	460.1	462.9	459.4
15°	1481.6	1320.3	961.0	639.0	486.1	445.3	445.3	446.7	456.5	457.9	457.2
17.5°	1480.2	1288.6	845.4	526.3	429.8	424.1	426.2	439.6	446.0	448.1	443.2
20°	1497.1	1259.0	726.4	449.5	398.1	406.5	420.6	424.1	431.9	433.3	427.7
22.5°	1492.2	1185.0	615.8	388.9	374.1	390.3	404.4	408.6	406.5	402.3	401.6
25°	1483.1	1121.6	514.3	348.7	356.5	374.1	387.5	379.7	375.5	376.2	376.9
27.5°	1466.8	1041.3	430.5	320.6	332.5	358.6	357.9	355.1	359.3	355.8	359.3
30°	1464.0	961.0	361.4	295.2	314.9	334.0	335.4	340.3	345.2	338.9	345.2
32.5°	1468.3	872.9	312.1	279.7	304.4	305.1	320.6	325.5	322.0	307.9	309.3
35°	1500.7	805.3	276.2	271.2	287.5	288.2	303.0	296.6	281.1	272.7	277.6
37.5°	1569.0	748.9	259.3	263.5	264.9	274.1	274.8	262.1	263.5	262.8	265.6
40°	1656.4	705.9	247.3	256.5	255.0	261.4	236.0	243.1	249.4	251.5	252.9
42.5°	1716.3	674.9	239.5	245.2	242.4	231.1	217.0	224.0	229.0	236.7	238.1
45°	1743.0	650.3	230.4	225.5	225.5	205.0	199.4	200.8	212.1	220.5	219.1
47.5°	1699.3	626.3	214.2	199.4	204.3	187.4	181.1	181.1	193.0	203.6	201.5
48°	1682.4	616.5	214.9	193.7	197.3	184.6	178.2	176.8	190.2	200.1	200.1
50°	1598.6	579.8	196.6	178.2	171.2	169.8	165.6	167.0	175.4	184.6	184.6
52.5°	1435.1	500.9	166.3	152.9	140.2	148.7	150.8	148.0	152.2	160.6	159.9
55°	1197.7	384.7	133.2	126.8	117.0	126.1	130.3	126.8	122.6	128.9	128.9
57.5°	767.2	207.1	106.4	107.8	97.9	107.1	110.6	102.2	94.4	99.3	98.6
60°	345.9	124.0	87.4	85.2	78.9	89.5	95.1	85.2	74.7	78.2	81.7
62.5°	129.6	88.1	66.2	64.8	63.4	73.3	76.1	68.3	57.8	59.9	60.6
65°	95.1	77.5	52.8	47.9	50.7	57.8	56.4	48.6	41.6	41.6	43.0
67.5°	81.0	67.6	43.0	37.3	37.3	38.0	35.2	31.0	28.9	30.3	31.7
70°	63.4	53.5	33.8	28.9	26.1	23.2	20.4	19.7	17.6	19.7	19.0
72.5°	40.9	35.9	26.1	21.8	19.7	16.2	13.4	12.7	10.6	9.9	9.9
75°	21.8	21.8	20.4	17.6	15.5	12.7	10.6	8.5	5.6	4.2	4.2
77.5°	15.5	16.9	18.3	16.9	14.1	10.6	8.5	5.6	2.8	1.4	1.4
80°	14.8	16.9	18.3	16.2	14.1	10.6	7.7	4.2	2.1	0.7	0.7
82.5°	13.4	15.5	16.9	14.8	12.7	9.2	7.0	4.2	2.1	0.7	0.7
85°	2.8	3.5	4.2	4.2	4.9	6.3	4.9	3.5	1.4	0.7	0.7
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4	0.7	0.7	0.7
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)