

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: P300295

Luminaire Tested: **GLNA-AF-01-LED-E1-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-AFL-7027
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5536.3 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

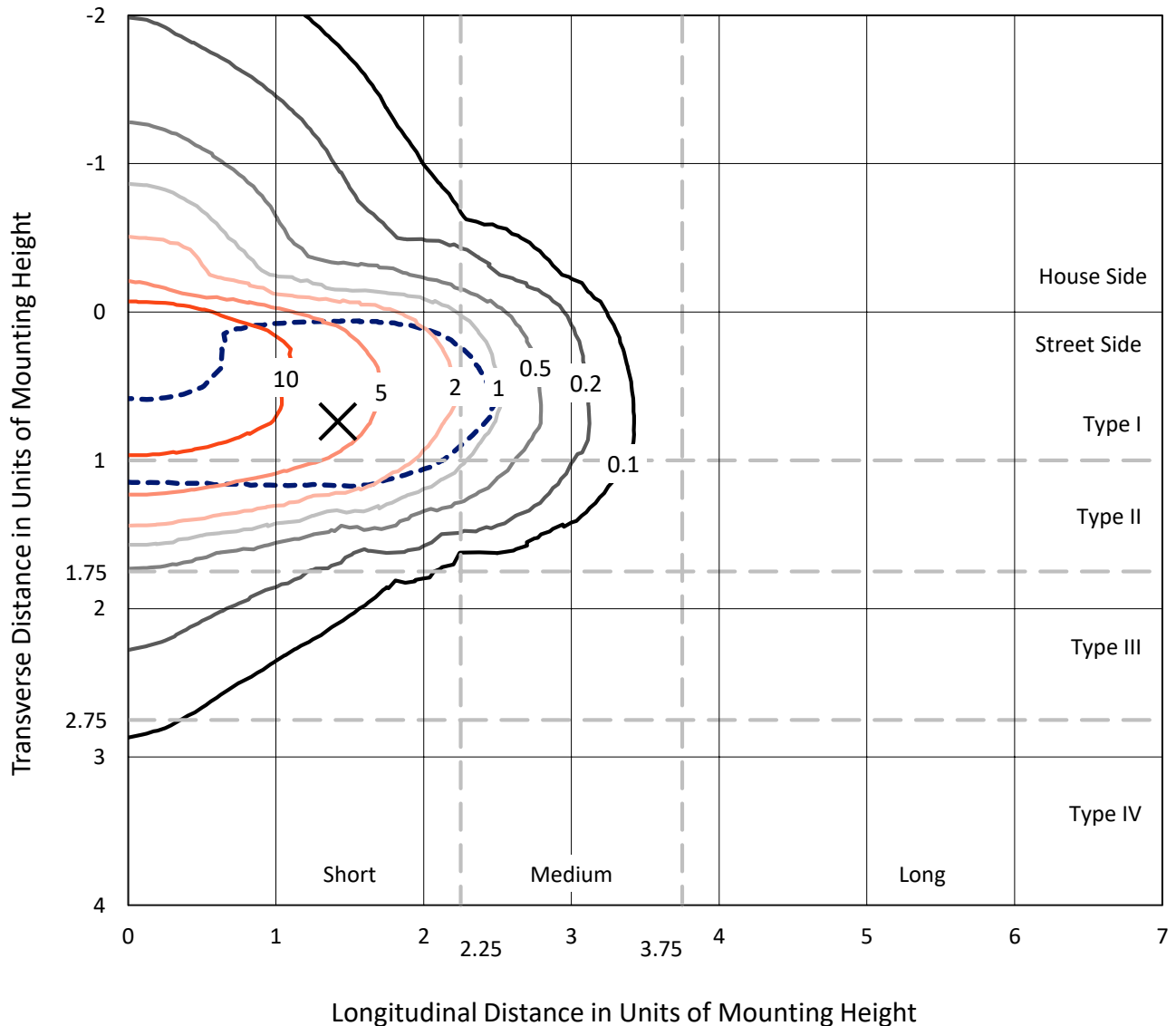
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

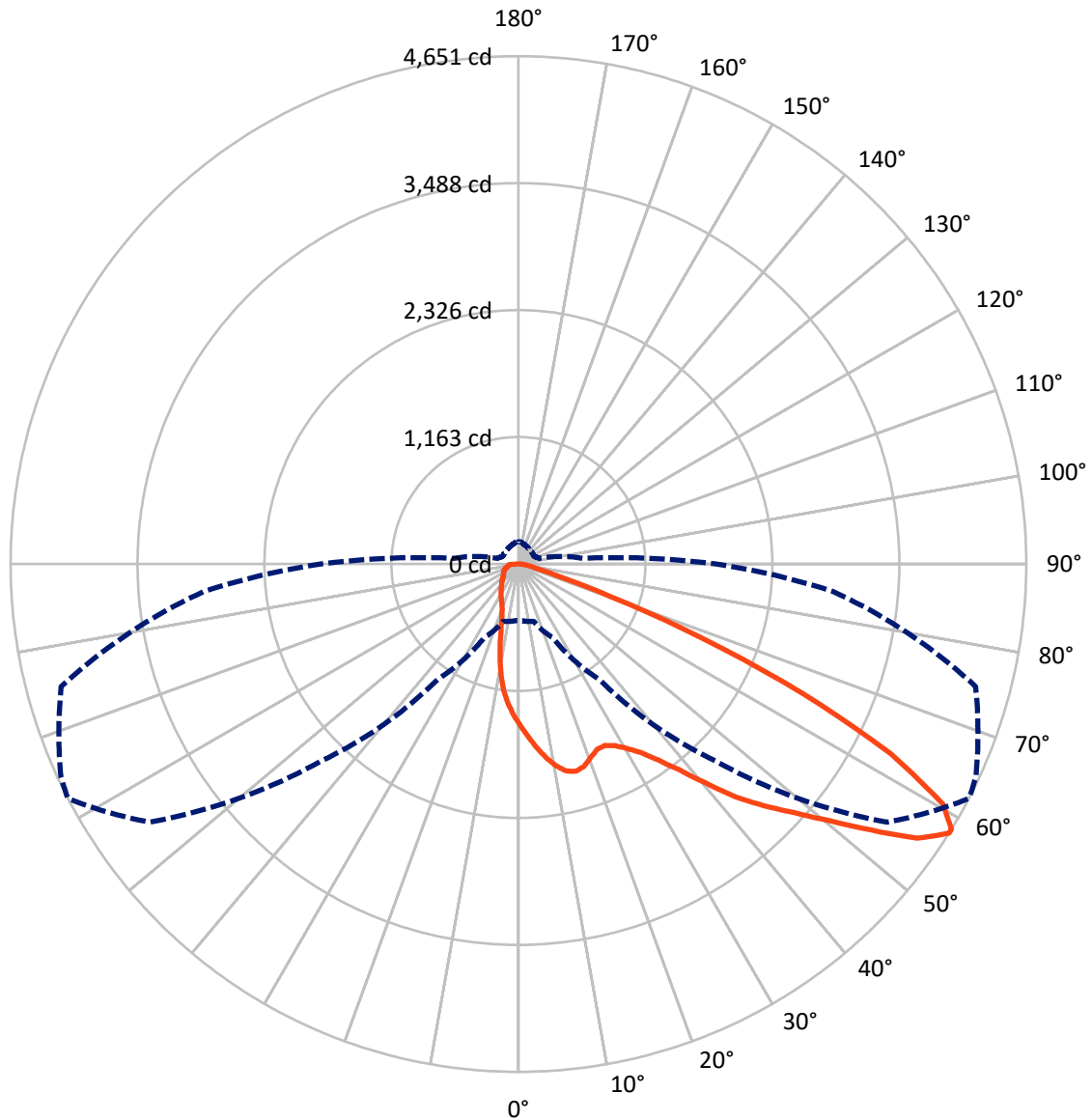
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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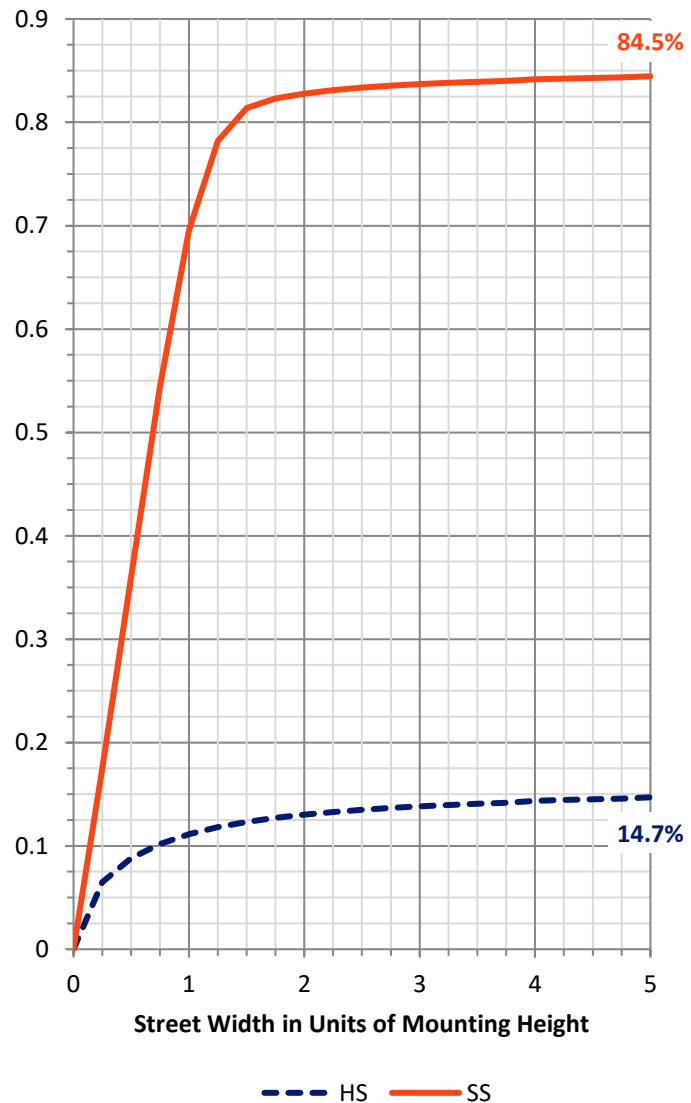
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.3	0.0	844.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	4692.0	0.0	4692.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	5536.3	0.0	5536.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	2.4
10°-20°	336.2	6.1
20°-30°	543.5	9.8
30°-40°	862.8	15.6
40°-50°	1262.4	22.8
50°-60°	1320.4	23.8
60°-70°	780.1	14.1
70°-80°	219.8	4.0
80°-90°	79.8	1.4
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°	5536.3	100.0
0°-180°	5536.3	100.0



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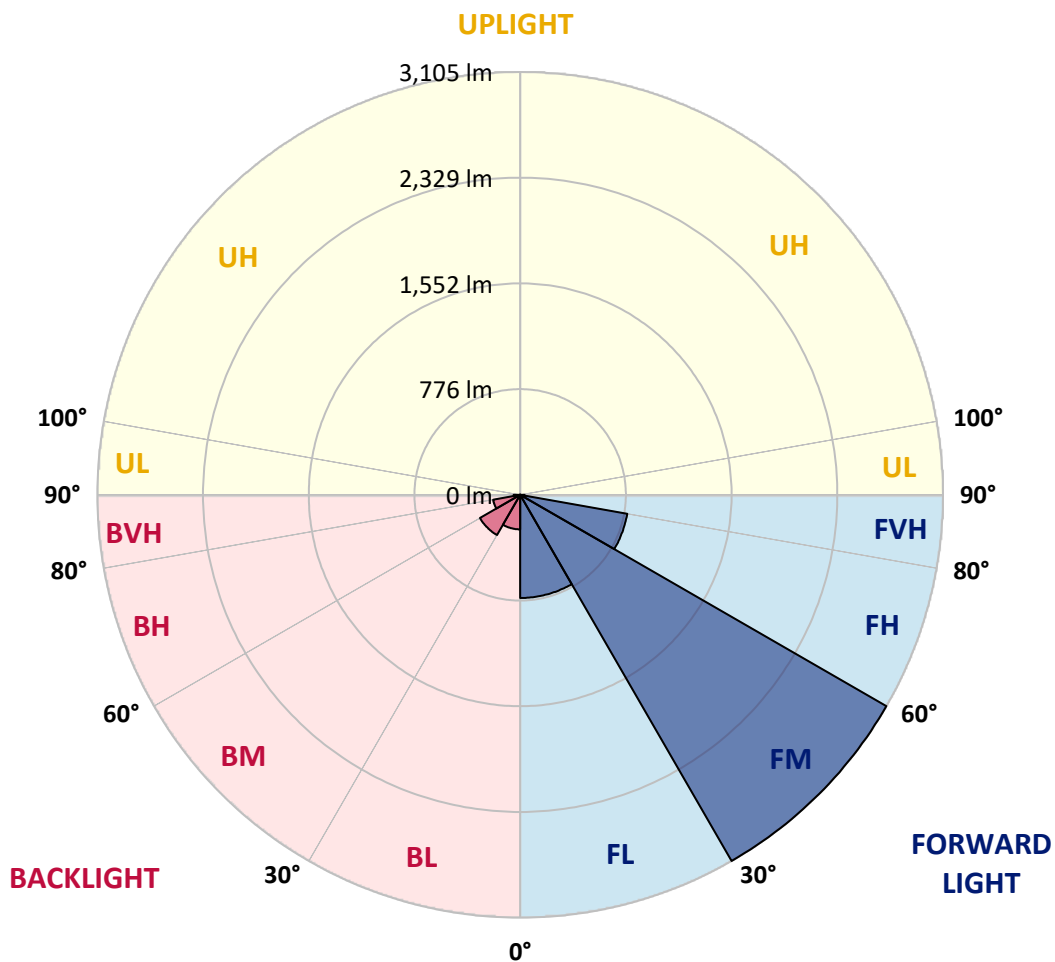
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	757.4	13.7			
FM	(30°-60°)	3104.7	56.1			
FH	(60°-80°)	798.4	14.4			G1/1800
FVH	(80°-90°)	31.5	0.6			G1/100
BL	(0°-30°)	253.8	4.6	B1/500		
BM	(30°-60°)	340.8	6.2	B1/1000		
BH	(60°-80°)	201.5	3.6	B1/500		G1/500
BVH	(80°-90°)	48.3	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6
2.5°	1680.5	1666.9	1658.3	1650.7	1640.8	1619.7	1591.3	1573.3	1564.2	1533.2	1496.4
5°	1845.2	1833.2	1824.4	1814.2	1796.5	1763.4	1717.5	1681.0	1663.0	1601.0	1527.4
7.5°	1806.6	1811.6	1827.0	1853.8	1876.8	1872.3	1831.4	1785.0	1761.3	1675.0	1563.4
10°	1574.1	1582.7	1609.3	1672.1	1773.8	1878.1	1909.9	1877.8	1853.8	1748.2	1600.4
12.5°	1527.4	1527.2	1529.3	1545.9	1606.4	1753.2	1912.5	1944.8	1930.5	1818.1	1638.2
15°	1546.5	1547.0	1545.4	1552.5	1571.2	1629.4	1832.7	1970.6	1980.8	1888.5	1677.3
17.5°	1596.5	1595.2	1589.2	1589.2	1596.0	1618.7	1738.9	1946.6	1993.6	1950.8	1711.7
20°	1680.5	1674.5	1658.6	1644.0	1636.7	1648.9	1700.3	1891.4	1971.4	2005.3	1740.2
22.5°	1782.1	1777.4	1751.6	1720.4	1695.1	1694.8	1720.1	1843.1	1933.1	2056.7	1764.1
25°	1913.5	1906.0	1867.6	1817.6	1773.3	1756.3	1763.4	1840.8	1912.2	2112.4	1785.5
27.5°	2067.9	2054.0	2008.7	1936.5	1871.3	1837.1	1827.0	1883.3	1931.3	2181.5	1815.2
30°	2255.0	2239.1	2181.0	2086.9	1994.9	1938.8	1917.2	1958.6	1994.3	2265.7	1863.0
32.5°	2468.0	2445.1	2377.8	2274.1	2153.1	2067.6	2032.4	2058.2	2086.6	2367.1	1922.7
35°	2762.4	2735.0	2637.8	2494.6	2358.0	2240.4	2184.1	2202.9	2230.5	2518.4	2008.9
37.5°	2963.1	2950.9	2886.2	2751.7	2603.1	2467.8	2380.7	2391.7	2407.3	2707.4	2119.5
40°	2961.3	2966.2	2967.5	2968.8	2867.7	2738.1	2644.5	2633.1	2629.9	2914.9	2245.1
42.5°	2812.9	2833.3	2899.0	3032.2	3093.7	3034.3	2948.5	2915.4	2899.0	3159.4	2378.4
45°	2585.9	2596.8	2719.9	2980.1	3209.5	3327.6	3262.6	3158.4	3128.6	3384.1	2488.9
47.5°	2468.8	2480.8	2558.2	2841.9	3208.2	3564.5	3602.1	3403.4	3350.2	3579.7	2584.3
50°	2190.1	2215.2	2312.7	2601.5	3091.1	3673.5	3956.9	3695.4	3585.4	3770.0	2680.0
52.5°	1678.4	1717.0	1826.2	2206.3	2794.2	3619.5	4240.8	4049.4	3894.1	3967.1	2762.1
55°	1058.7	1087.4	1179.1	1558.2	2235.2	3338.8	4348.5	4432.4	4294.2	4153.7	2833.3
57.5°	575.6	588.4	622.8	860.3	1453.9	2718.0	4191.5	4650.3	4593.0	4312.2	2887.0
58°	515.1	523.7	545.1	745.6	1289.4	2548.3	4121.9	4651.1	4622.5	4335.4	2891.2
60°	382.2	377.8	358.7	425.5	717.7	1760.5	3701.1	4465.0	4549.2	4363.8	2870.8
62.5°	335.8	325.1	286.2	281.8	349.1	811.0	2832.0	3824.7	4023.6	4201.7	2747.2
65°	315.4	304.0	253.9	237.8	251.8	343.1	1668.2	2868.5	3118.0	3710.0	2431.3
67.5°	300.3	285.5	233.3	211.2	212.2	226.8	668.7	1806.6	2087.4	2816.9	1891.1
70°	285.7	269.6	215.9	190.3	184.3	179.4	265.9	904.4	1159.1	1779.3	1205.7
72.5°	270.1	254.2	200.5	173.9	162.2	145.7	173.6	369.9	516.7	841.8	546.9
75°	247.4	233.1	185.1	159.3	142.6	120.7	131.1	193.2	231.8	335.3	263.6
77.5°	219.5	207.8	167.9	147.3	126.4	98.0	100.9	134.0	148.6	191.9	156.7
80°	157.7	161.9	149.4	132.4	112.6	79.5	77.4	97.8	105.6	123.3	101.9
82.5°	110.8	113.1	123.6	108.2	93.1	62.6	57.1	68.8	73.5	81.1	55.0
85°	76.4	73.8	84.7	75.3	67.3	41.7	39.1	46.7	49.5	50.3	28.4
87.5°	45.9	45.9	49.0	40.4	36.2	21.6	21.1	26.6	28.4	27.1	15.6
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°	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6	1470.6
2.5°	1474.5	1456.0	1416.6	1385.1	1345.2	1303.8	1280.6	1255.8	1238.8	1226.6	1246.1
5°	1485.7	1447.9	1366.6	1289.4	1204.2	1115.5	1048.3	985.7	942.2	915.1	940.6
7.5°	1503.5	1445.3	1315.7	1183.8	1030.8	883.2	751.3	668.7	620.5	596.7	611.6
10°	1523.8	1441.1	1256.0	1040.7	821.7	635.8	537.3	503.9	493.0	488.5	490.6
12.5°	1540.7	1432.3	1182.8	867.6	617.1	502.1	473.7	472.9	475.3	475.8	476.6
15°	1552.7	1419.2	1074.1	687.2	493.5	457.5	456.0	460.7	465.1	466.9	468.0
17.5°	1560.8	1392.4	951.3	543.3	442.1	435.9	439.5	445.5	450.2	451.5	452.6
20°	1560.0	1353.0	805.0	453.1	414.3	414.3	420.5	425.2	425.5	423.9	424.7
22.5°	1551.9	1299.1	663.2	405.1	389.5	393.9	400.2	395.7	377.5	365.5	366.3
25°	1538.4	1234.7	541.7	374.6	366.5	374.4	372.5	339.2	313.1	301.4	301.4
27.5°	1526.4	1158.5	448.4	348.0	343.6	353.2	320.9	290.7	279.7	274.3	272.4
30°	1517.8	1076.4	386.1	322.5	322.0	314.9	278.4	270.1	268.3	263.8	262.3
32.5°	1519.9	993.3	346.2	300.1	301.9	269.6	258.1	259.9	258.4	253.7	251.6
35°	1537.1	914.3	320.1	279.7	274.3	243.5	246.1	249.5	249.0	242.5	240.4
37.5°	1567.8	839.5	302.9	262.8	239.3	230.5	234.6	239.8	238.5	234.1	232.5
40°	1600.2	769.1	288.9	249.5	218.7	221.6	225.2	228.1	229.4	230.7	229.7
42.5°	1631.7	695.5	271.6	235.9	210.1	213.3	214.8	217.7	224.7	229.7	229.4
45°	1650.5	626.5	253.9	216.6	203.3	205.2	204.1	209.9	218.5	226.5	226.8
47.5°	1671.3	572.8	239.8	198.9	196.8	198.1	195.0	200.7	208.6	218.5	219.5
50°	1696.6	540.7	228.6	184.8	188.0	188.0	187.2	192.4	203.3	214.8	216.9
52.5°	1725.3	534.4	219.2	174.7	179.1	178.8	179.6	187.4	199.4	210.6	212.5
55°	1760.2	551.4	209.1	167.1	170.5	171.5	174.1	183.0	193.2	206.0	206.7
57.5°	1800.9	585.8	201.0	161.1	162.7	166.1	170.2	178.3	189.3	203.3	204.1
58°	1807.7	593.1	199.7	160.6	161.1	165.0	169.7	177.5	188.5	203.9	204.6
60°	1807.9	617.3	196.8	158.2	155.1	161.6	166.8	174.7	187.2	205.7	207.5
62.5°	1743.8	617.1	194.7	154.9	148.9	156.9	162.9	172.1	185.9	210.1	213.8
65°	1535.5	560.8	184.8	149.6	143.9	152.8	159.5	170.2	189.5	229.4	231.8
67.5°	1201.0	459.6	166.3	142.3	137.4	148.6	157.5	170.0	193.4	233.8	235.4
70°	794.1	343.9	146.0	134.0	130.6	143.6	158.5	178.8	189.0	224.5	220.3
72.5°	412.2	241.4	129.6	123.6	122.8	139.2	173.6	177.8	184.6	211.2	206.0
75°	216.4	167.6	115.2	112.1	113.4	138.2	204.9	173.1	178.8	202.0	211.9
77.5°	132.4	135.3	103.0	101.7	104.3	135.0	204.6	167.1	170.5	185.9	196.8
80°	88.6	109.8	93.6	93.9	95.7	123.6	183.8	157.7	160.3	175.7	186.9
82.5°	56.1	64.9	85.0	89.4	87.1	101.9	156.2	143.6	147.3	201.0	212.5
85°	28.4	40.7	73.8	86.0	78.5	71.4	126.7	125.9	127.7	144.9	151.5
87.5°	13.0	22.4	57.6	75.1	59.2	44.6	92.0	93.3	100.6	103.0	103.0
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)