

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: P458604

Luminaire Tested: **GALN-SA1D-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7363 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

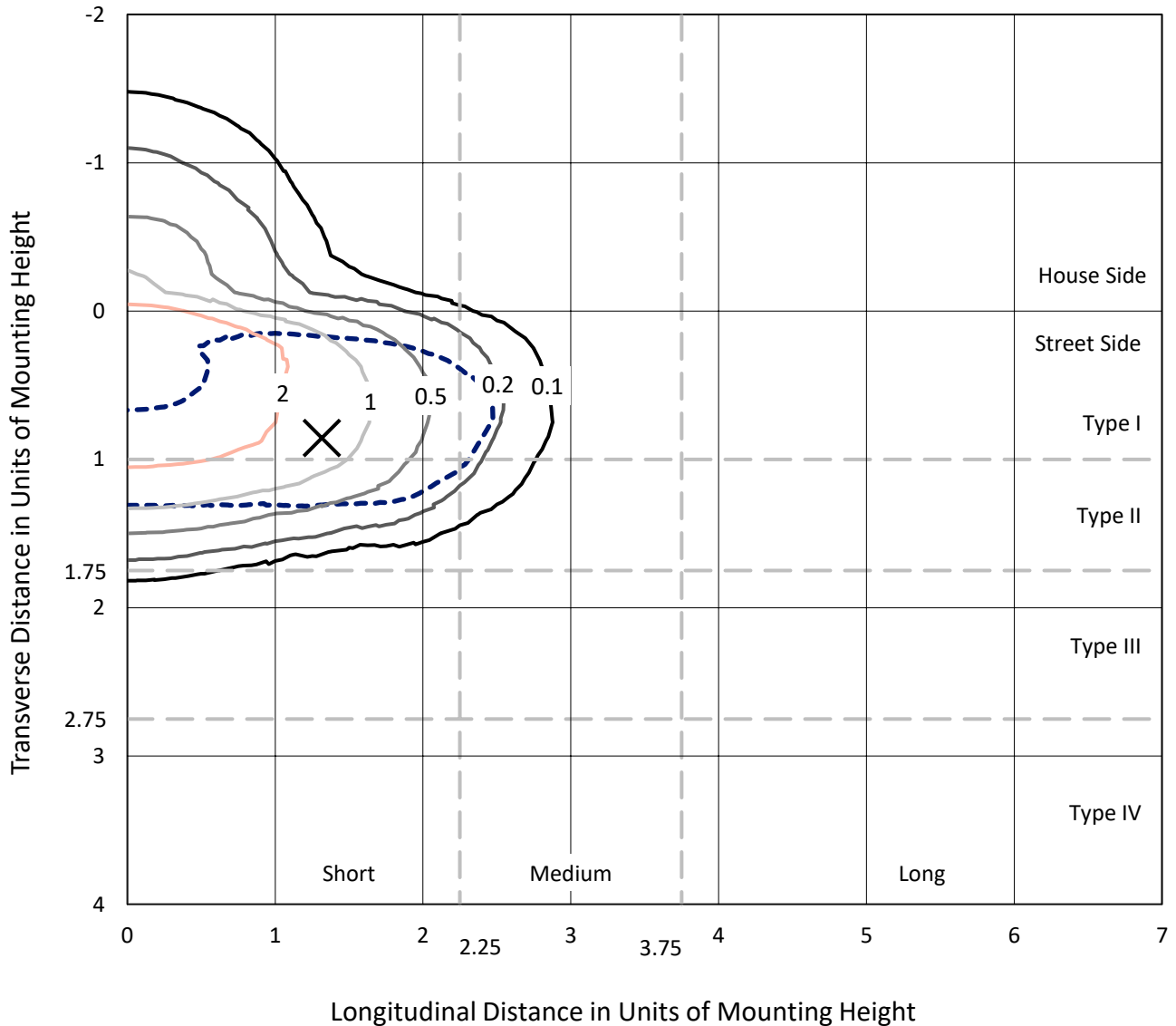
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

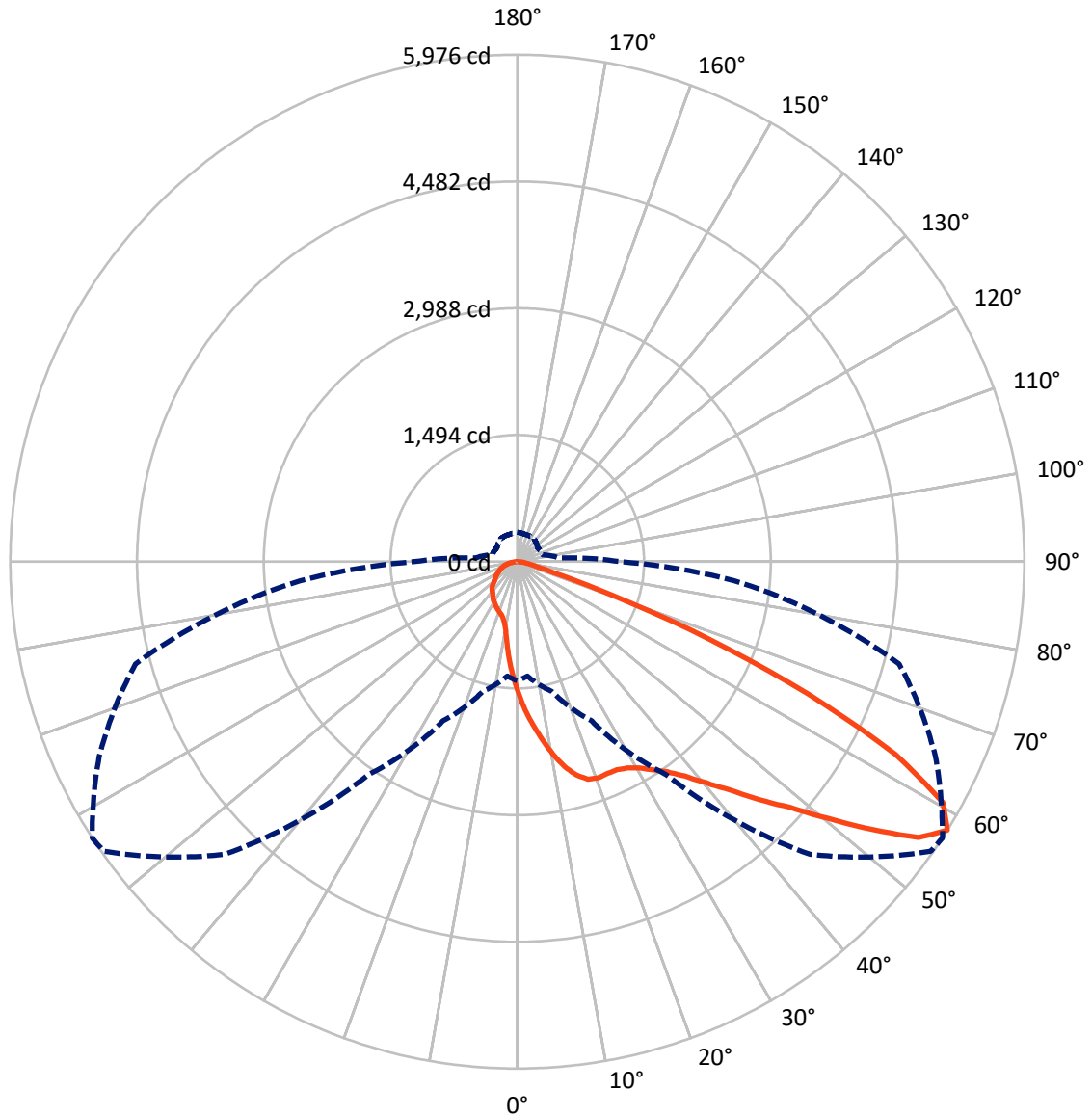
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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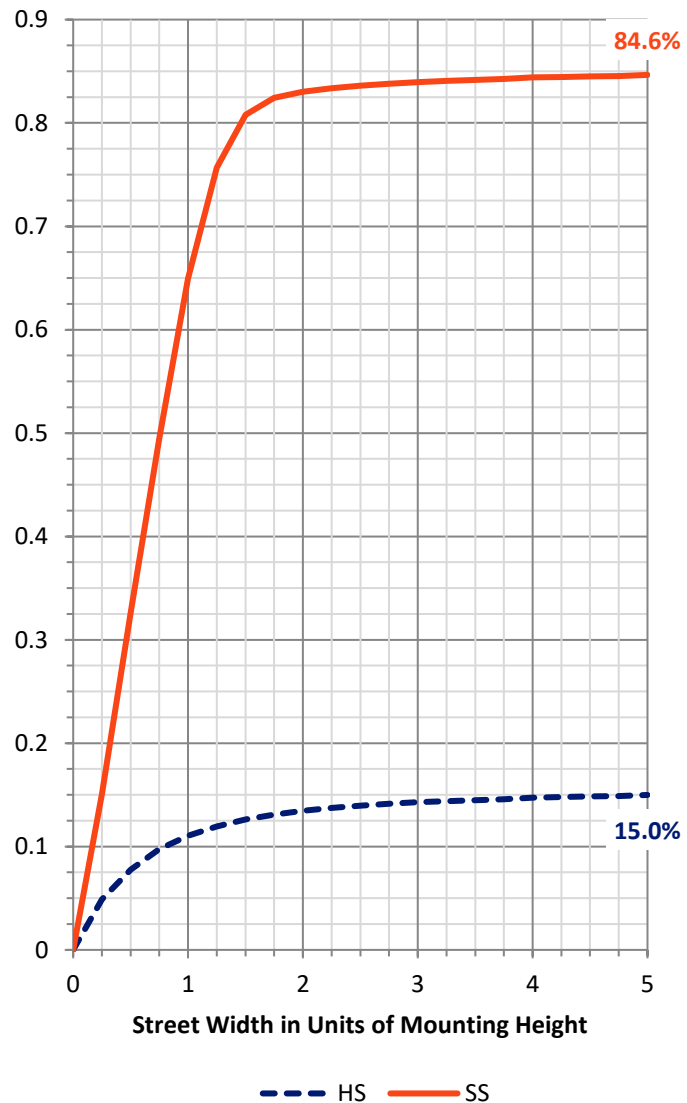
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1119.7	0.0	1119.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	6243.3	0.0	6243.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	7363.0	0.0	7363.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	2.0
10°-20°	438.1	6.0
20°-30°	727.5	9.9
30°-40°	1095.9	14.9
40°-50°	1645.4	22.3
50°-60°	1844.2	25.0
60°-70°	1079.3	14.7
70°-80°	319.3	4.3
80°-90°	64.5	0.9
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°	7363.0	100.0
0°-180°	7363.0	100.0



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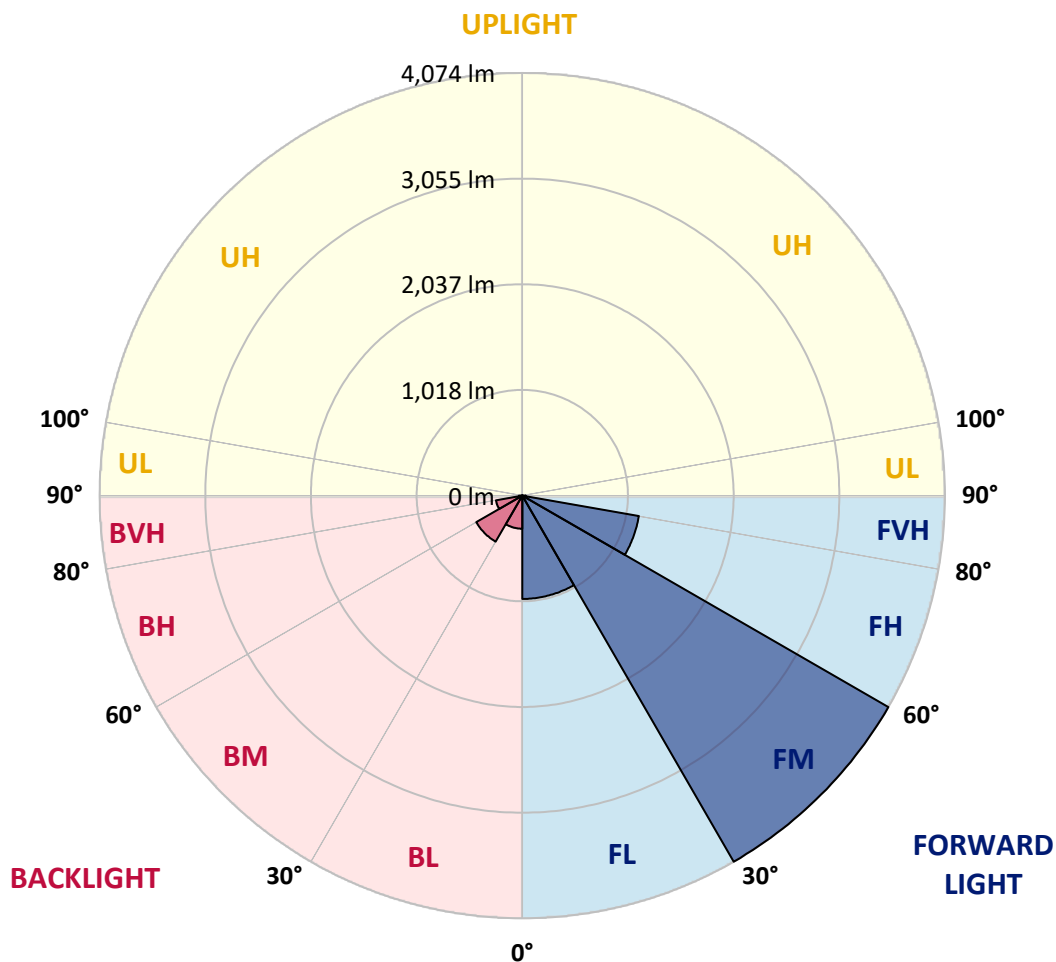
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	995.3	13.5			
FM	(30°-60°)	4073.5	55.3			
FH	(60°-80°)	1141.0	15.5			G1/1800
FVH	(80°-90°)	33.5	0.5			G1/100
BL	(0°-30°)	319.0	4.3	B1/500		
BM	(30°-60°)	512.0	7.0	B1/1000		
BH	(60°-80°)	257.6	3.5	B1/500		G1/500
BVH	(80°-90°)	31.1	0.4			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°	57°	65°	75°	85°
0°	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9
2.5°	1922.1	1901.2	1884.6	1870.1	1851.2	1800.0	1748.8	1748.0	1707.3	1644.4	1579.9
5°	2235.3	2207.1	2210.7	2165.6	2120.4	2046.3	1937.8	1932.2	1845.5	1727.8	1608.1
7.5°	2439.2	2439.6	2428.3	2402.5	2353.8	2269.5	2146.6	2118.8	1998.3	1819.7	1640.4
10°	2428.7	2439.6	2458.6	2480.7	2495.6	2454.1	2342.1	2308.2	2151.4	1931.0	1676.3
12.5°	2289.3	2306.2	2333.2	2388.8	2478.7	2547.2	2508.9	2481.5	2328.8	2041.8	1715.8
15°	2202.2	2212.3	2227.2	2264.7	2361.4	2525.5	2624.6	2610.1	2496.1	2167.2	1760.1
17.5°	2175.6	2185.7	2190.5	2213.5	2282.4	2450.5	2670.2	2696.0	2644.4	2282.4	1804.8
20°	2202.2	2207.1	2207.1	2220.8	2274.8	2406.6	2668.1	2720.1	2766.1	2420.7	1846.7
22.5°	2272.0	2274.0	2271.2	2276.0	2316.3	2418.7	2649.2	2713.7	2864.4	2538.0	1879.4
25°	2385.2	2388.4	2369.9	2358.6	2388.0	2471.9	2659.7	2718.9	2941.4	2650.0	1901.2
27.5°	2513.8	2517.8	2495.2	2469.0	2482.7	2537.6	2700.8	2754.0	2999.0	2760.4	1914.9
30°	2671.4	2673.0	2635.1	2603.7	2594.8	2635.5	2770.9	2820.5	3070.8	2890.6	1935.4
32.5°	2832.6	2844.7	2795.9	2751.6	2736.7	2749.2	2874.5	2922.5	3156.2	3030.5	1968.5
35°	3051.8	3053.9	2995.4	2941.4	2892.2	2908.4	3007.1	3041.8	3274.3	3192.1	2015.2
37.5°	3325.5	3344.1	3263.4	3162.7	3102.2	3078.9	3167.5	3205.4	3440.0	3390.4	2085.8
40°	3629.4	3636.3	3567.3	3504.5	3394.0	3326.3	3387.6	3428.7	3644.3	3627.0	2167.6
42.5°	3820.5	3835.4	3840.6	3834.2	3751.1	3637.5	3660.8	3680.2	3886.1	3849.1	2251.4
45°	3884.9	3907.1	3982.1	4140.9	4149.7	4037.7	3983.3	4001.8	4149.7	4073.2	2331.6
47.5°	3778.1	3816.0	3954.3	4279.9	4523.8	4532.2	4368.2	4327.5	4390.0	4259.0	2389.6
50°	3502.0	3510.1	3721.7	4193.3	4699.1	5005.0	4835.3	4759.5	4618.1	4396.4	2429.5
52.5°	3074.8	3084.1	3261.4	3790.6	4591.1	5335.5	5381.8	5246.4	4849.8	4503.2	2455.7
55°	2282.4	2336.0	2531.1	3042.6	4079.2	5304.5	5816.3	5739.3	5129.9	4587.8	2496.9
57.5°	1403.4	1354.2	1585.6	2070.0	3068.0	4878.0	5950.5	5975.5	5438.3	4658.8	2565.8
60°	645.7	655.3	750.9	1067.7	1870.1	3816.0	5604.7	5762.7	5608.8	4656.4	2583.1
62.5°	445.0	436.1	411.9	468.7	852.8	2413.4	4734.2	5001.8	5267.0	4511.7	2514.2
65°	397.8	388.9	342.2	326.5	391.8	1051.9	3441.6	3779.3	4434.7	4146.5	2342.5
67.5°	371.6	359.5	311.1	280.5	279.7	418.8	2029.3	2436.0	3289.2	3505.7	2029.7
70°	344.2	334.5	286.6	252.7	238.2	263.2	891.9	1167.6	2135.7	2526.3	1581.1
72.5°	316.8	305.5	262.4	226.1	207.2	197.1	341.8	444.6	1206.7	1514.6	969.3
75°	276.9	271.2	234.6	204.7	184.2	159.2	216.8	247.5	577.2	695.7	486.5
77.5°	242.2	236.2	208.4	179.0	164.0	129.4	154.0	168.1	243.4	282.1	219.7
80°	177.3	183.4	175.7	158.0	146.3	101.6	103.6	115.3	144.7	160.0	134.2
82.5°	112.4	123.7	135.4	121.7	110.8	80.2	71.7	76.2	98.7	104.8	59.7
85°	47.2	48.0	78.6	74.2	63.3	47.6	43.1	45.5	52.8	55.2	27.8
87.5°	18.1	17.7	27.8	25.8	19.7	13.7	13.7	15.3	21.0	19.3	8.9
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°	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9
2.5°	1552.1	1523.5	1466.7	1396.1	1344.6	1286.5	1235.3	1198.7	1184.9	1178.5	1166.4
5°	1550.9	1494.5	1376.8	1253.5	1154.3	1052.8	966.9	911.3	906.4	869.4	865.7
7.5°	1551.3	1465.1	1277.6	1096.3	945.1	841.2	770.2	751.7	729.5	723.9	726.7
10°	1552.5	1427.6	1171.2	940.7	794.4	726.3	699.7	692.4	693.2	695.7	696.1
12.5°	1554.1	1391.3	1060.8	822.6	709.8	681.5	678.7	685.2	692.0	697.3	698.5
15°	1556.2	1349.8	953.2	727.5	667.4	665.0	674.3	685.2	694.8	702.5	703.7
17.5°	1553.7	1301.4	862.9	669.1	644.1	655.8	671.1	684.8	693.6	700.9	701.7
20°	1548.1	1247.4	775.9	627.9	629.6	648.5	665.0	677.9	687.6	691.2	694.0
22.5°	1526.3	1182.9	700.1	596.1	612.2	638.4	658.2	665.8	654.9	647.3	649.3
25°	1489.2	1099.1	629.6	570.3	596.5	624.3	644.5	625.9	617.1	613.8	615.4
27.5°	1442.9	1007.2	576.4	543.3	576.4	608.6	603.0	599.7	595.7	590.5	591.7
30°	1392.9	917.3	531.2	522.3	554.6	573.1	575.5	580.8	576.4	568.3	571.5
32.5°	1346.6	832.7	497.0	504.6	539.3	536.5	554.6	560.6	540.1	513.1	514.3
35°	1307.1	754.1	471.2	487.3	513.1	514.3	532.4	511.5	489.3	476.4	477.2
37.5°	1277.2	692.8	454.2	472.4	479.6	494.9	485.3	474.4	471.6	462.7	463.1
40°	1259.5	639.2	443.3	460.7	459.5	469.9	438.9	449.8	453.8	451.0	451.4
42.5°	1241.8	601.3	432.1	444.6	444.2	423.6	416.7	426.0	436.5	437.7	436.9
45°	1227.7	571.9	420.4	420.0	428.0	395.8	393.8	399.4	414.3	421.6	421.2
47.5°	1212.0	547.3	402.6	391.4	393.8	378.5	375.2	377.7	395.8	407.5	410.7
50°	1192.2	522.7	380.5	365.2	355.1	362.3	363.1	363.5	381.7	395.0	397.8
52.5°	1176.5	504.2	355.1	343.8	331.7	347.8	353.9	354.7	365.6	376.4	378.5
55°	1185.8	493.7	330.1	322.0	311.1	332.9	344.6	346.2	348.6	356.7	357.9
57.5°	1213.6	496.1	309.9	299.5	291.4	315.2	334.9	336.1	334.5	344.2	345.8
60°	1222.0	494.9	295.0	274.5	269.6	296.2	320.8	323.2	322.8	336.9	339.8
62.5°	1186.6	479.6	280.1	253.5	250.3	276.9	301.1	310.7	312.8	332.9	336.5
65°	1103.1	448.2	260.4	231.3	231.3	256.3	282.1	295.4	301.1	328.1	332.1
67.5°	993.1	411.1	240.2	212.4	211.6	236.6	262.0	275.7	284.5	321.2	323.6
70°	824.2	361.1	215.2	191.8	191.8	214.4	237.4	253.9	266.8	308.3	308.3
72.5°	564.7	300.3	185.0	168.5	168.9	189.8	213.2	231.8	247.1	282.5	283.3
75°	357.1	234.6	151.9	143.5	145.1	164.8	189.0	208.4	239.0	279.3	280.5
77.5°	189.8	164.8	120.9	118.9	120.9	139.1	166.1	192.7	239.8	242.2	238.2
80°	122.9	116.9	95.5	91.5	92.3	112.0	147.9	183.0	192.7	195.1	186.2
82.5°	66.9	74.2	67.7	63.7	63.7	87.5	126.2	145.5	138.2	114.9	109.6
85°	28.6	34.7	35.1	30.6	29.4	54.0	84.6	79.4	73.8	70.5	69.7
87.5°	8.1	11.3	11.3	8.5	6.4	14.9	16.9	4.8	0.0	0.4	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)