

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: P382742

Luminaire Tested: **GLEON-SA1B-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5718.8 lumens
Efficiency: N/A
Efficacy: 130.0 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

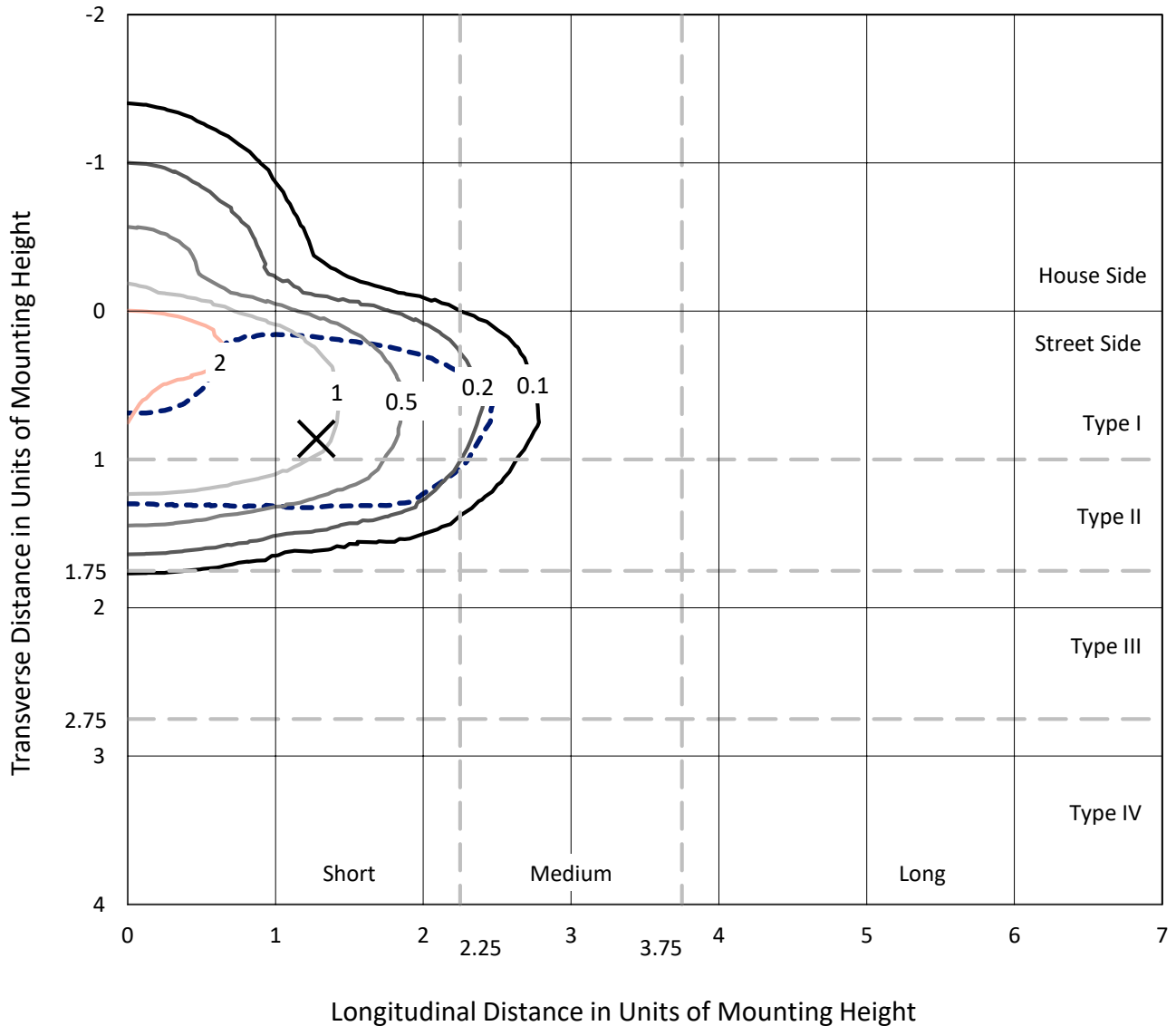
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

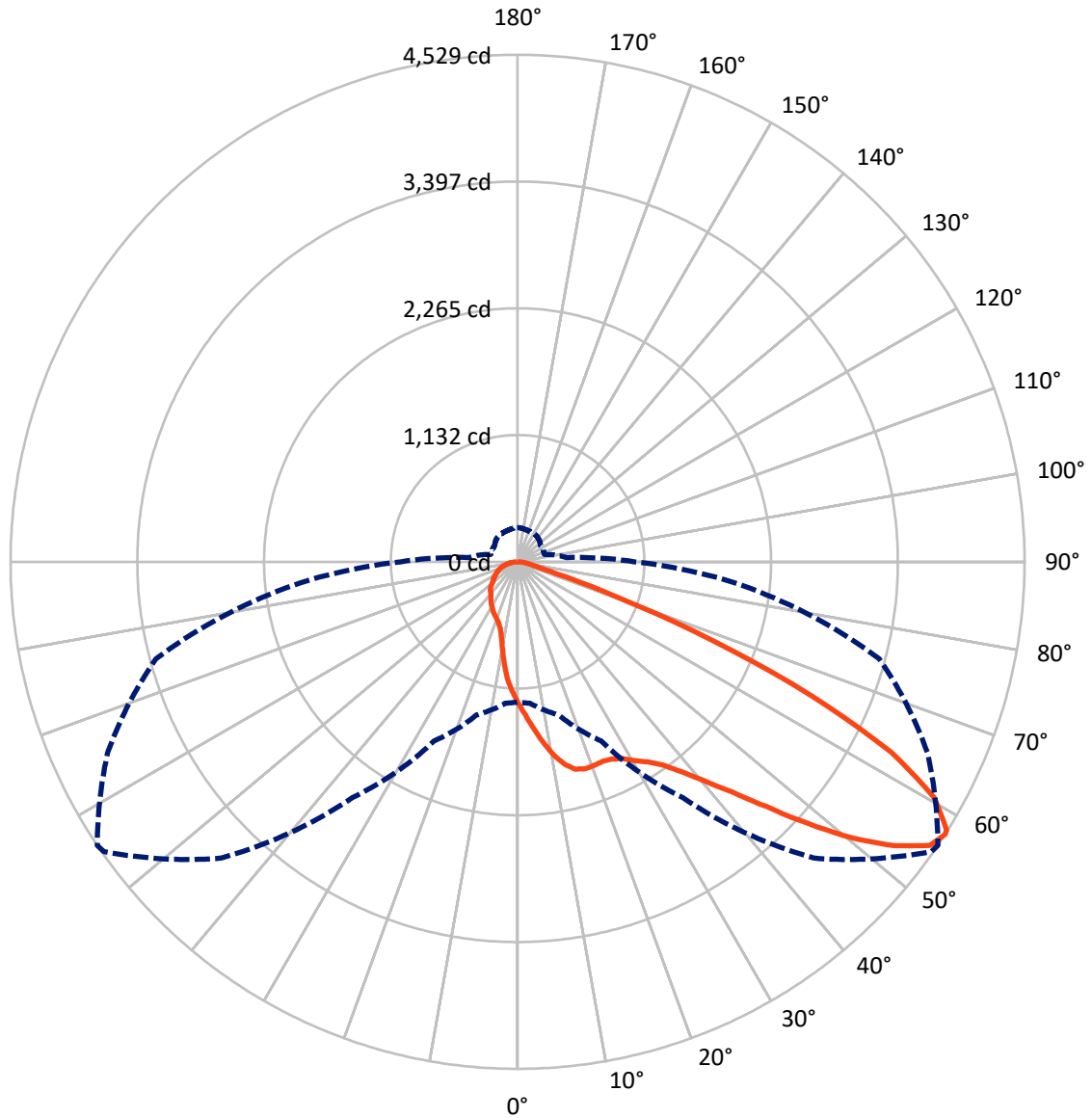
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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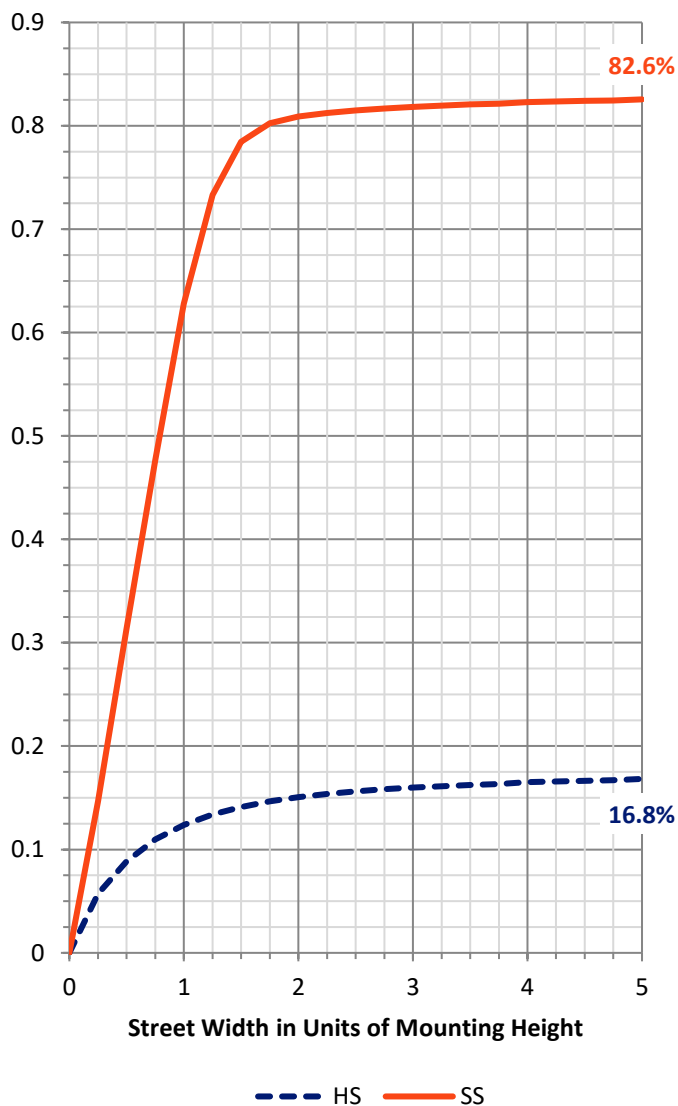
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	985.8	0.0	985.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4733.0	0.0	4733.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	5718.8	0.0	5718.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	2.1
10°-20°	342.6	6.0
20°-30°	558.0	9.8
30°-40°	834.1	14.6
40°-50°	1265.2	22.1
50°-60°	1418.0	24.8
60°-70°	837.5	14.6
70°-80°	274.4	4.8
80°-90°	67.8	1.2
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°	5718.8	100.0
0°-180°	5718.8	100.0

Coefficient of Utilization

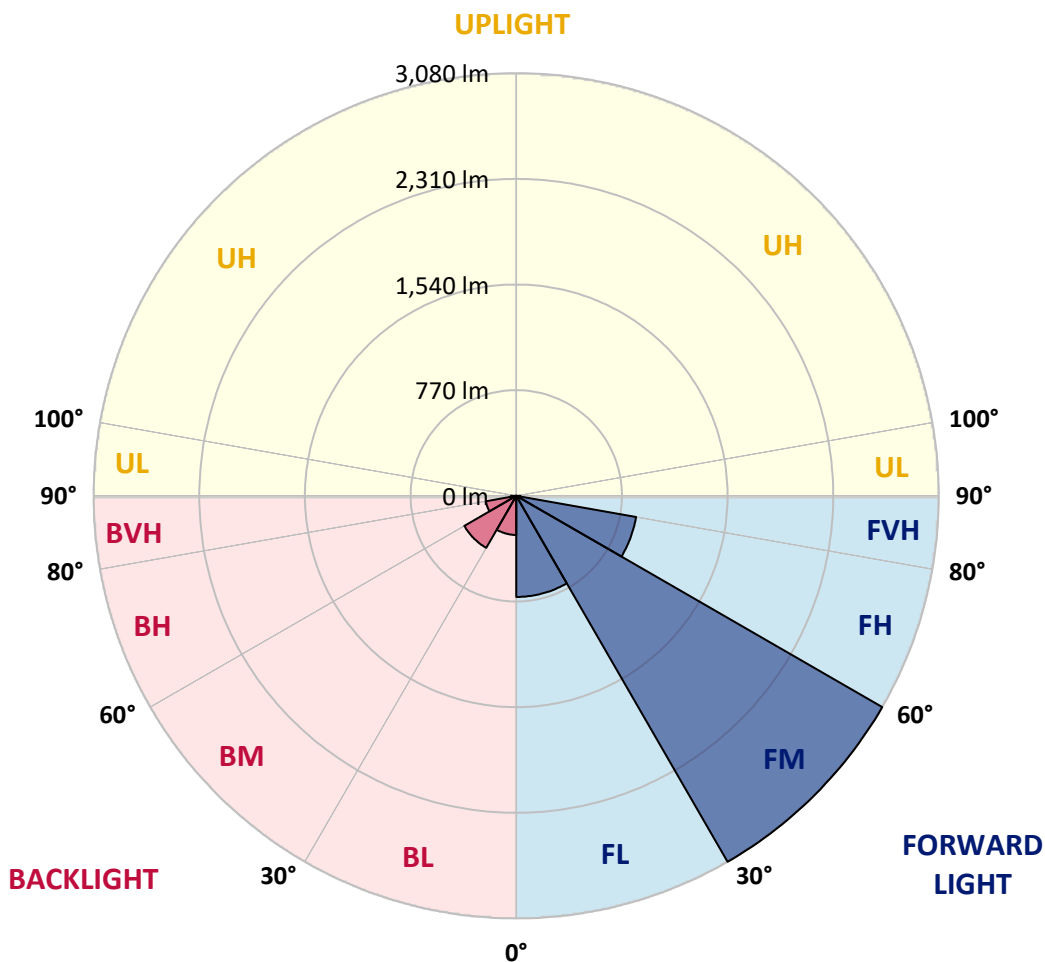


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.7	12.9			
FM (30°-60°)	3079.7	53.9			
FH (60°-80°)	886.7	15.5			G1/1800
FVH (80°-90°)	29.9	0.5			G1/100
BL (0°-30°)	285.0	5.0	B1/500		
BM (30°-60°)	437.6	7.7	B1/1000		
BH (60°-80°)	225.2	3.9	B1/500		G1/500
BVH (80°-90°)	37.9	0.7			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°	56°	65°	75°	85°
0°	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4
2.5°	1456.5	1469.9	1464.0	1443.5	1427.8	1405.6	1380.8	1373.4	1347.2	1318.0	1282.7
5°	1687.0	1680.3	1670.7	1638.9	1605.2	1566.2	1504.1	1494.2	1436.1	1369.8	1299.9
7.5°	1818.3	1817.7	1812.0	1793.4	1762.7	1711.6	1636.7	1625.2	1537.3	1430.8	1322.2
10°	1799.3	1797.9	1807.3	1826.8	1836.0	1825.4	1762.3	1750.8	1642.8	1498.2	1348.2
12.5°	1690.9	1691.8	1706.9	1747.8	1803.4	1870.2	1860.0	1854.3	1752.3	1574.4	1379.6
15°	1606.6	1608.4	1620.4	1656.0	1721.6	1842.9	1919.4	1921.3	1858.3	1658.5	1416.4
17.5°	1569.8	1573.5	1579.0	1603.9	1664.0	1788.5	1933.5	1944.1	1951.0	1745.8	1451.8
20°	1581.5	1585.0	1586.6	1602.5	1651.8	1755.4	1923.6	1942.7	2022.1	1828.0	1487.2
22.5°	1634.4	1636.5	1637.5	1641.7	1680.0	1764.9	1917.2	1937.2	2073.6	1901.7	1513.9
25°	1722.1	1720.5	1714.1	1708.8	1734.6	1802.2	1932.1	1951.2	2115.5	1968.5	1531.4
27.5°	1827.0	1825.0	1812.8	1798.3	1813.0	1860.4	1975.2	1990.3	2153.0	2031.0	1540.2
30°	1953.0	1947.9	1924.9	1907.5	1913.2	1947.7	2046.1	2059.8	2211.0	2101.9	1548.9
32.5°	2098.6	2093.1	2059.8	2031.1	2031.1	2059.8	2119.2	2130.6	2260.1	2182.2	1562.9
35°	2281.0	2274.1	2230.9	2182.7	2169.1	2183.6	2218.9	2227.0	2348.6	2283.1	1588.2
37.5°	2496.0	2486.8	2430.7	2366.2	2336.6	2335.8	2361.2	2377.7	2489.8	2415.8	1631.2
40°	2711.5	2705.1	2656.1	2605.4	2547.3	2528.6	2567.7	2572.8	2674.7	2580.5	1686.3
42.5°	2878.2	2877.1	2868.0	2874.7	2815.1	2777.4	2808.1	2812.2	2900.3	2758.8	1744.8
45°	2966.3	2968.3	3012.1	3109.1	3131.2	3103.6	3118.8	3119.9	3158.1	2938.6	1798.4
47.5°	2895.7	2906.0	3016.8	3234.0	3414.2	3505.6	3480.4	3495.0	3408.1	3093.0	1840.6
50°	2620.8	2633.4	2822.0	3178.3	3546.2	3894.5	3881.4	3878.0	3609.7	3206.3	1863.4
52.5°	2280.1	2290.0	2445.7	2889.3	3449.3	4109.5	4230.3	4213.1	3789.0	3291.0	1867.7
55°	1761.6	1776.8	1926.1	2312.2	3057.4	4027.4	4487.1	4471.5	3952.3	3335.4	1862.5
57°	1252.3	1268.4	1416.6	1764.6	2572.0	3743.0	4512.6	4529.1	4040.5	3342.9	1868.2
57.5°	1117.5	1134.0	1280.8	1618.8	2420.7	3640.2	4490.6	4518.1	4056.4	3341.6	1871.4
60°	562.7	569.0	662.5	903.7	1530.3	2942.9	4203.4	4274.4	4070.8	3283.9	1885.0
62.5°	349.8	345.3	342.3	416.2	744.5	1951.6	3611.0	3747.5	3796.2	3144.0	1852.1
65°	307.6	299.1	266.7	260.8	328.8	947.8	2719.3	2889.3	3209.6	2923.5	1773.9
67.5°	288.9	280.7	244.1	222.1	222.3	375.8	1688.2	1879.7	2500.3	2550.6	1589.4
70°	269.7	262.1	227.9	202.1	189.3	208.1	776.7	922.0	1629.8	2004.9	1328.4
72.5°	244.9	239.8	207.4	180.6	167.0	155.8	297.3	351.2	943.6	1346.5	922.5
75°	218.9	214.3	186.5	161.0	144.5	122.6	167.5	180.4	479.4	688.9	454.2
77.5°	190.4	187.7	165.9	142.2	129.1	101.6	118.5	124.8	205.6	295.4	227.8
80°	151.6	156.9	145.0	126.8	114.6	81.3	83.9	88.0	119.7	144.3	129.3
82.5°	98.7	107.9	113.6	103.0	94.4	64.1	60.4	62.1	78.1	88.0	56.2
85°	41.1	46.2	74.7	67.4	62.7	46.8	40.5	41.3	48.3	50.1	23.0
87.5°	18.3	19.5	32.8	30.8	26.5	16.1	17.3	18.9	25.7	24.4	8.8
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°	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4	1268.4
2.5°	1269.6	1253.1	1224.8	1193.6	1168.0	1147.6	1126.9	1112.7	1096.2	1087.4	1082.9
5°	1270.6	1238.1	1178.6	1117.5	1062.9	1013.0	965.4	928.8	894.7	876.1	871.0
7.5°	1274.7	1226.0	1129.7	1029.1	931.9	843.3	775.0	732.1	701.3	687.5	683.6
10°	1278.1	1211.7	1069.1	920.2	788.1	698.3	645.2	621.2	610.6	608.9	607.1
12.5°	1285.9	1196.9	1005.5	806.5	676.3	614.2	595.7	594.1	597.0	601.4	601.4
15°	1298.3	1182.3	932.8	709.1	605.1	583.3	587.1	595.7	603.7	610.4	611.4
17.5°	1307.3	1164.4	854.5	631.0	567.2	573.1	586.5	598.6	606.9	613.4	614.0
20°	1313.9	1136.8	771.0	571.5	545.4	563.7	580.4	591.2	596.8	603.4	604.3
22.5°	1310.5	1099.6	696.9	528.8	527.7	549.9	565.8	578.8	574.5	568.2	572.3
25°	1294.4	1048.5	620.7	497.1	509.0	531.4	551.1	542.4	527.9	525.1	526.7
27.5°	1265.7	983.2	550.1	467.5	487.4	514.3	513.2	504.5	499.4	495.9	498.0
30°	1234.9	912.5	488.4	441.8	463.4	485.6	481.1	481.0	475.8	470.2	472.9
32.5°	1204.4	841.4	439.4	420.6	445.4	448.3	458.1	461.0	451.1	439.0	438.3
35°	1177.8	774.1	402.3	401.3	423.6	423.9	438.3	434.1	409.2	396.8	396.8
37.5°	1158.0	707.1	374.0	384.0	394.8	405.0	412.3	395.3	391.1	384.3	384.0
40°	1149.3	648.2	356.3	370.8	374.6	387.5	368.9	375.6	377.6	374.0	374.0
42.5°	1140.3	596.8	340.9	360.9	360.2	358.5	349.1	357.7	365.5	365.7	365.2
45°	1131.3	552.7	327.4	339.5	347.7	328.6	330.3	339.6	350.6	354.5	354.5
47.5°	1121.2	517.7	315.0	316.8	329.6	316.8	315.4	322.5	335.5	341.8	343.2
50°	1099.2	486.3	300.9	297.0	300.5	304.8	306.0	309.4	323.7	333.7	336.1
52.5°	1068.8	458.1	282.8	278.7	278.7	295.0	300.5	301.4	313.7	325.7	328.0
55°	1043.4	440.2	264.2	263.3	262.6	284.6	294.0	295.6	304.1	313.5	314.7
57°	1045.2	438.9	249.7	250.6	250.4	274.0	287.9	291.3	295.6	303.7	305.0
57.5°	1046.1	439.9	246.7	247.0	246.9	271.0	286.2	289.9	293.3	301.6	303.0
60°	1060.8	442.4	233.9	229.5	230.6	255.3	276.1	280.9	283.0	294.2	296.0
62.5°	1039.0	431.0	223.7	213.2	213.2	238.8	262.1	269.7	272.9	288.1	291.1
65°	975.8	399.0	211.6	194.8	196.7	222.3	245.5	257.7	262.8	281.6	284.8
67.5°	878.1	361.8	198.9	178.3	180.3	204.9	228.1	241.4	249.4	274.5	277.1
70°	750.9	316.4	181.6	160.8	163.1	186.1	207.7	222.6	234.7	267.9	268.7
72.5°	553.6	259.4	157.4	141.5	144.0	164.1	187.1	204.4	220.5	251.1	250.8
75°	329.2	202.8	130.7	122.0	123.8	142.5	168.4	189.5	213.6	244.7	248.4
77.5°	199.7	152.7	106.5	102.2	104.3	123.4	155.1	177.5	210.7	230.7	229.5
80°	120.6	109.1	85.1	82.3	84.5	105.5	143.5	168.4	184.2	197.1	197.1
82.5°	63.1	66.6	62.5	60.4	63.3	85.7	130.5	147.0	162.7	139.7	130.5
85°	25.7	34.7	37.9	37.7	39.5	59.3	112.6	125.8	105.0	99.7	102.0
87.5°	8.7	14.7	18.4	15.9	16.7	37.4	78.1	60.7	72.1	50.3	47.8
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)