

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: P190939

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-AFL-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5724.4 lumens
Efficiency: N/A
Efficacy: 85.4 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): 67
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

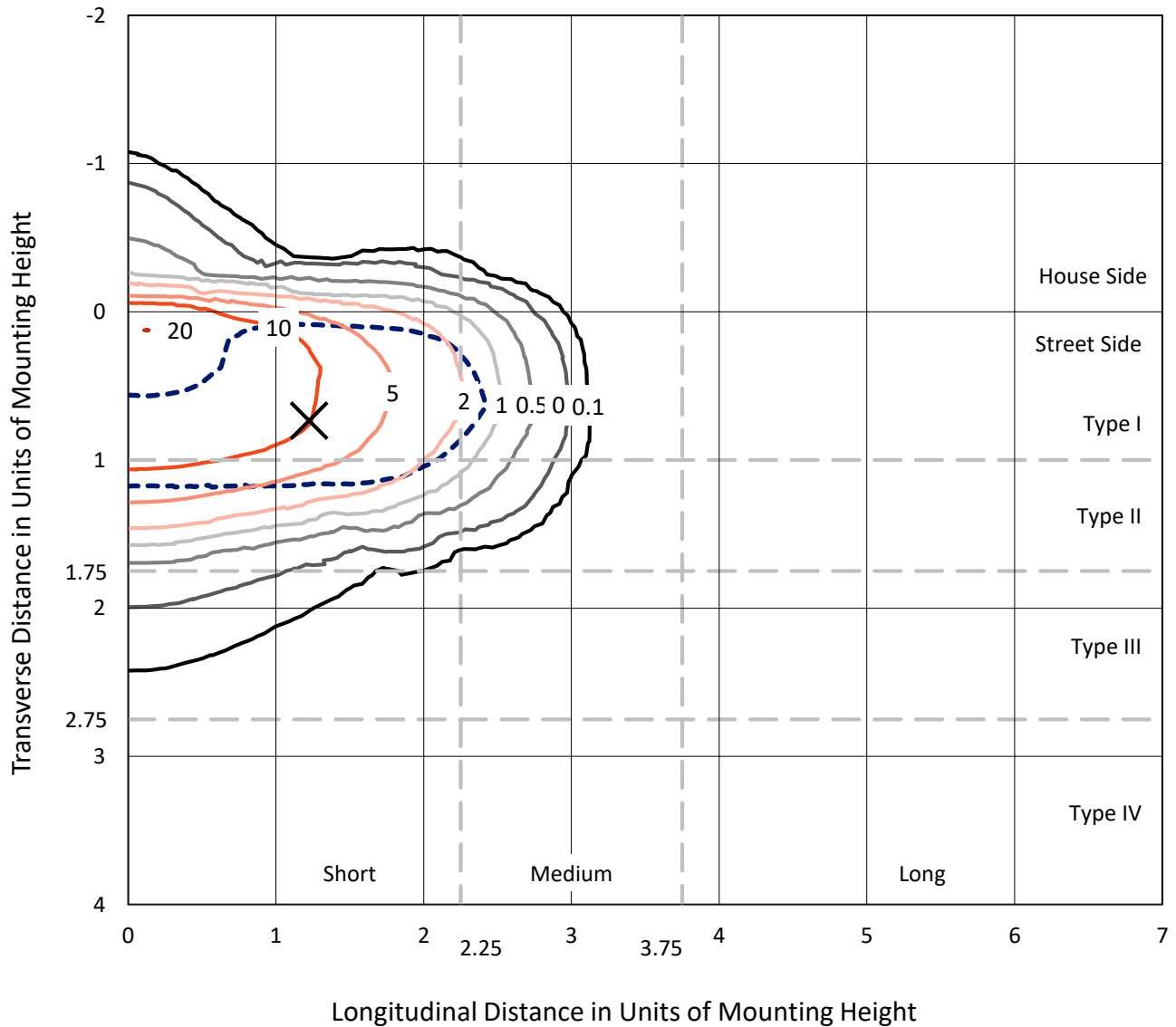


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

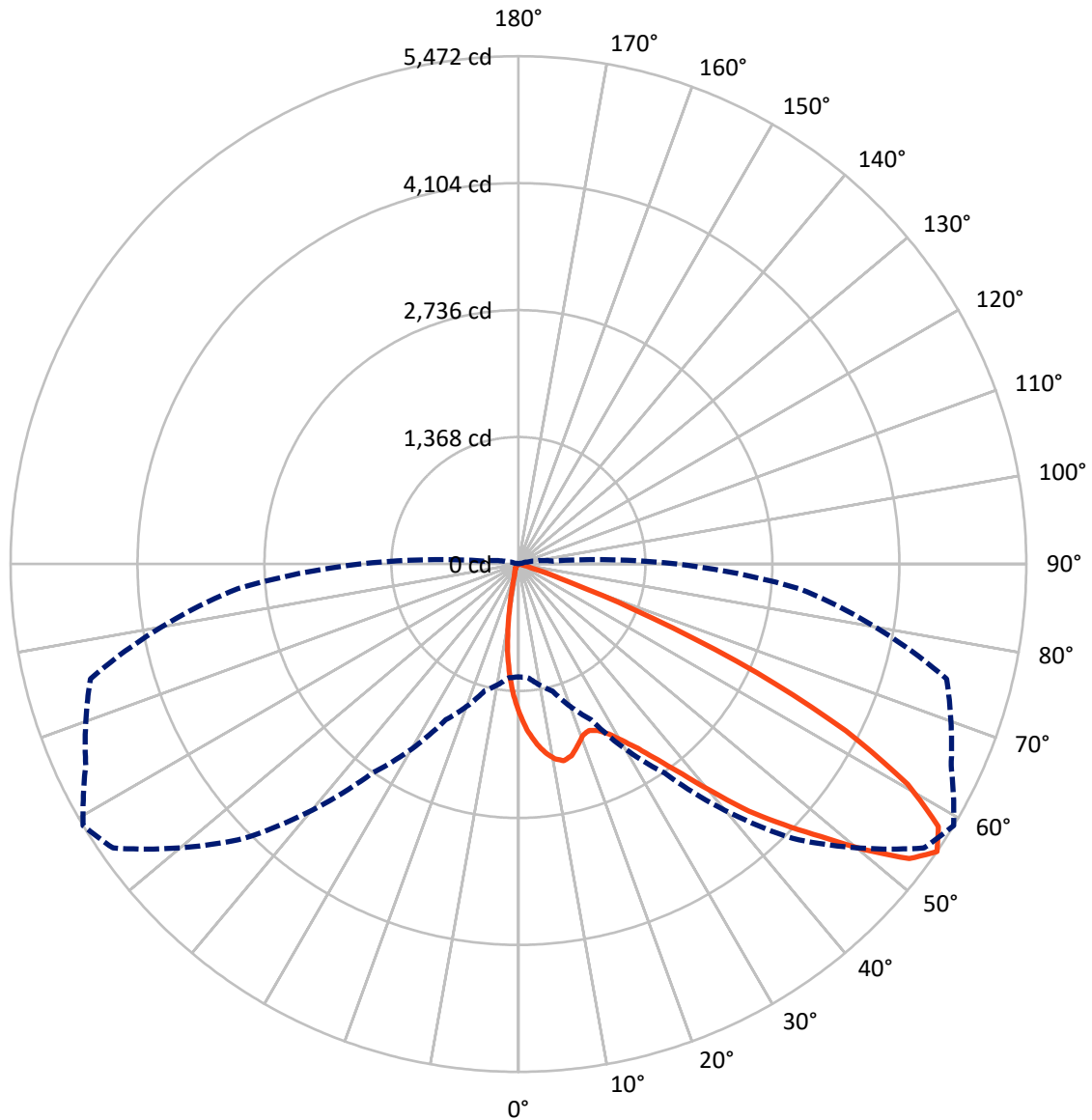


Based on 10 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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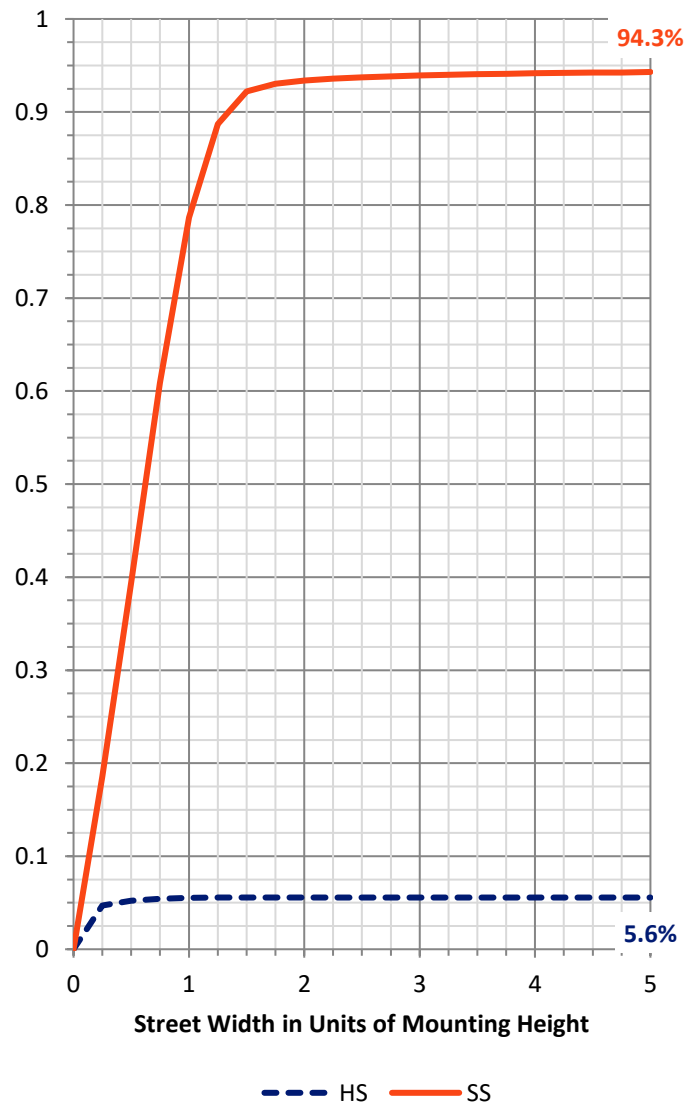
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	319.7	0.0	319.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5404.7	0.0	5404.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	5724.4	0.0	5724.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	2.4
10°-20°	323.2	5.6
20°-30°	549.9	9.6
30°-40°	945.7	16.5
40°-50°	1460.1	25.5
50°-60°	1467.8	25.6
60°-70°	752.7	13.1
70°-80°	81.6	1.4
80°-90°	8.5	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°	5724.4	100.0
0°-180°	5724.4	100.0



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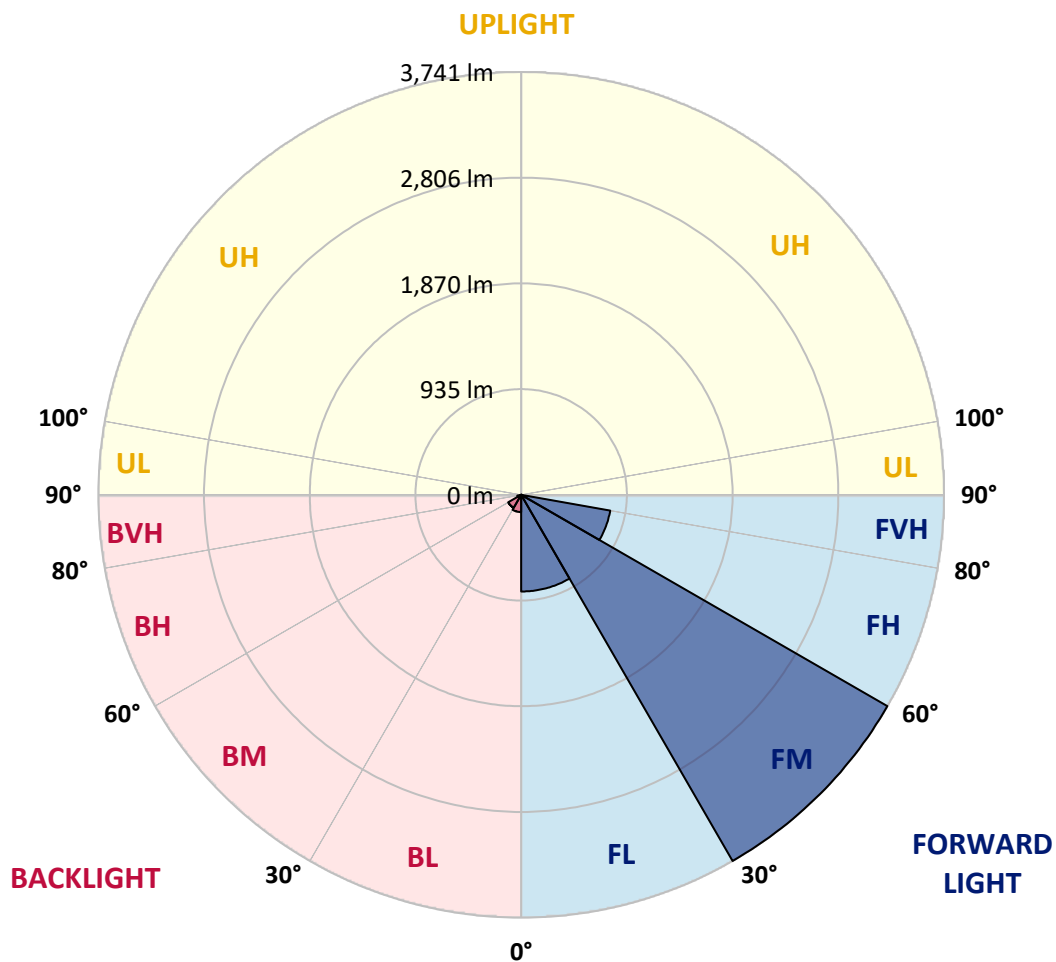
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	855.4	14.9			
FM	(30°-60°)	3740.9	65.3			
FH	(60°-80°)	800.0	14.0			G1/1800
FVH	(80°-90°)	8.4	0.1			G0/10
BL	(0°-30°)	152.6	2.7	B1/500		
BM	(30°-60°)	132.7	2.3	B0/220		
BH	(60°-80°)	34.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
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°	59°	65°	75°	85°
0°	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5
2.5°	1906.7	1886.4	1880.3	1876.3	1857.7	1834.4	1802.6	1787.7	1757.3	1708.3	1648.3
5°	2081.3	2077.6	2064.1	2056.6	2036.7	2003.7	1952.9	1928.7	1880.3	1797.8	1690.1
7.5°	2005.0	2028.3	2046.8	2077.9	2117.1	2115.8	2073.2	2047.8	1993.8	1885.0	1736.8
10°	1710.1	1729.0	1759.4	1830.0	1973.9	2100.9	2151.0	2132.6	2089.4	1965.1	1781.7
12.5°	1652.3	1650.2	1655.6	1676.3	1751.6	1932.7	2137.8	2174.6	2165.8	2038.4	1824.2
15°	1683.1	1680.7	1680.0	1687.1	1705.4	1781.7	2038.7	2144.5	2212.4	2106.4	1860.3
17.5°	1769.2	1759.1	1753.6	1747.9	1742.5	1761.4	1919.9	2060.3	2219.5	2165.8	1890.4
20°	1916.8	1899.9	1880.0	1847.6	1817.2	1807.7	1869.9	1973.9	2194.1	2211.0	1910.1
22.5°	2102.3	2080.7	2046.2	1987.1	1925.2	1889.4	1894.5	1946.6	2156.3	2260.3	1919.2
25°	2310.7	2283.0	2237.1	2154.9	2064.1	2000.6	1967.4	1985.8	2139.1	2318.1	1929.6
27.5°	2534.0	2503.3	2443.1	2331.3	2228.3	2142.5	2074.9	2072.5	2168.5	2393.8	1946.6
30°	2755.3	2750.5	2672.2	2553.9	2417.4	2313.1	2215.8	2203.2	2250.6	2498.6	1979.9
32.5°	3050.5	3015.0	2919.1	2797.5	2640.0	2514.7	2399.5	2370.5	2376.6	2620.5	2031.7
35°	3422.8	3383.9	3248.8	3080.9	2904.9	2757.0	2629.6	2590.1	2575.2	2820.2	2118.8
37.5°	3663.3	3662.7	3577.9	3406.9	3218.1	3054.9	2916.4	2870.1	2840.0	3061.4	2254.0
40°	3669.7	3685.6	3696.7	3695.1	3560.6	3410.3	3287.4	3230.3	3160.3	3383.6	2428.6
42.5°	3472.8	3513.6	3611.9	3778.9	3858.6	3798.8	3695.1	3639.0	3535.0	3728.6	2641.5
45°	3206.6	3235.0	3406.9	3714.3	4020.1	4183.9	4104.9	4004.5	3867.4	4088.3	2832.2
47.5°	3087.4	3092.4	3203.6	3541.0	4032.3	4499.4	4547.4	4384.3	4169.3	4378.1	2981.6
50°	2731.0	2740.1	2893.4	3240.7	3889.7	4648.4	4992.0	4837.2	4498.7	4601.4	3036.0
52.5°	2058.4	2071.2	2265.7	2747.1	3497.8	4584.9	5310.2	5272.7	4859.5	4710.6	3039.1
55°	1214.4	1231.3	1417.2	1849.2	2751.2	4180.9	5333.9	5471.7	5144.3	4775.1	3034.3
57.5°	567.2	579.0	685.5	952.7	1711.1	3304.2	4977.8	5335.2	5301.4	4809.2	3067.7
60°	301.4	304.7	330.4	412.5	773.2	2095.2	4282.9	4817.7	5158.2	4856.6	3108.6
62.5°	230.4	231.4	230.1	239.9	325.0	930.1	3237.3	3960.7	4581.5	4821.1	3063.3
65°	199.7	201.3	191.9	189.6	208.5	331.7	1923.2	2823.1	3600.2	4342.3	2754.9
67.5°	179.0	179.7	168.3	158.5	161.8	179.4	758.7	1545.6	2383.0	3182.9	1996.9
70°	164.9	164.2	151.7	136.2	131.8	122.7	241.2	566.5	1138.7	1614.1	928.6
72.5°	146.0	146.3	140.2	119.9	109.5	85.8	111.8	165.2	339.8	439.9	217.6
75°	129.4	127.7	120.3	107.4	90.2	56.5	55.4	73.7	104.8	104.0	47.0
77.5°	93.6	91.9	94.2	88.2	69.3	36.5	27.7	35.5	42.6	41.2	13.2
80°	68.5	67.5	60.8	73.3	61.2	25.0	17.2	18.9	22.0	18.6	4.1
82.5°	47.0	46.6	42.9	40.5	34.8	15.2	10.8	11.9	14.2	10.4	2.0
85°	7.5	8.5	31.1	24.7	20.6	6.8	7.5	8.1	9.4	5.7	0.7
87.5°	0.0	0.0	14.5	12.8	4.1	2.7	4.4	4.7	4.7	3.1	0.0
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°	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5	1611.5
2.5°	1617.5	1583.7	1521.2	1456.7	1396.9	1325.6	1276.6	1239.8	1197.3	1185.7	1210.8
5°	1628.6	1564.8	1430.3	1284.0	1146.5	994.2	877.7	785.4	701.9	673.6	699.3
7.5°	1646.2	1551.3	1332.0	1091.2	852.0	614.2	451.3	344.2	276.0	255.7	266.6
10°	1663.7	1531.7	1218.2	862.8	535.8	299.0	194.6	155.4	140.9	137.8	139.5
12.5°	1678.3	1505.4	1079.3	613.5	286.4	160.1	127.4	120.9	118.9	118.9	119.6
15°	1687.1	1465.5	914.8	390.2	164.9	120.9	111.1	109.1	109.1	109.5	110.2
17.5°	1686.0	1414.8	734.8	236.1	123.3	107.1	101.4	99.6	99.3	100.0	100.4
20°	1673.5	1348.6	554.0	155.7	107.4	97.6	91.9	88.9	88.5	89.2	89.8
22.5°	1649.9	1266.8	396.3	119.9	97.0	88.5	81.4	78.7	78.7	79.4	80.1
25°	1621.2	1166.9	271.0	101.7	87.5	78.7	71.9	69.6	70.3	71.9	72.3
27.5°	1585.4	1054.4	184.1	87.2	76.0	68.9	63.8	62.2	63.8	66.2	66.9
30°	1554.7	937.1	131.4	75.3	64.5	59.4	56.5	56.5	58.8	63.2	64.1
32.5°	1531.1	823.6	101.4	66.6	56.1	51.7	50.0	51.7	55.4	59.8	60.8
35°	1528.0	730.1	85.8	59.4	50.0	45.6	44.9	48.0	51.7	55.0	55.8
37.5°	1551.3	643.5	77.3	53.7	44.6	40.5	39.9	43.6	47.3	51.4	52.4
40°	1595.5	575.6	71.3	48.3	40.2	35.8	34.5	37.1	42.2	47.7	49.0
42.5°	1653.0	519.6	64.5	42.9	35.8	29.8	28.0	31.1	36.5	42.2	43.9
45°	1707.7	471.3	57.1	36.8	30.1	23.0	22.3	26.4	29.1	34.8	36.1
47.5°	1737.8	428.7	50.6	30.1	23.3	18.6	18.6	19.6	22.3	29.1	30.4
50°	1727.7	394.6	43.9	22.3	16.3	14.2	14.2	13.8	17.9	23.3	24.3
52.5°	1707.3	375.0	37.8	17.2	11.2	10.1	9.1	10.1	12.5	14.8	15.2
55°	1704.3	371.6	31.7	13.8	7.8	6.8	5.1	5.1	5.1	4.7	4.1
57.5°	1728.0	377.0	26.7	11.2	5.7	4.4	2.7	0.0	0.0	0.0	0.0
60°	1752.3	382.8	23.0	7.8	4.1	2.4	0.3	0.0	0.0	0.0	0.0
62.5°	1711.7	369.9	19.2	4.7	3.1	1.0	0.0	0.0	0.0	0.0	0.0
65°	1503.6	314.9	15.2	3.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1069.5	210.8	10.1	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	488.2	88.2	6.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	104.3	27.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.3	19.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.8	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.1	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)