

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: P200089

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200089
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: GWC-AF-01-LED-E1-AFL-1200-HSS
Description: GALLEON WALL 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: 5839 lumens
Efficiency: N/A
Efficacy: 87.1 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

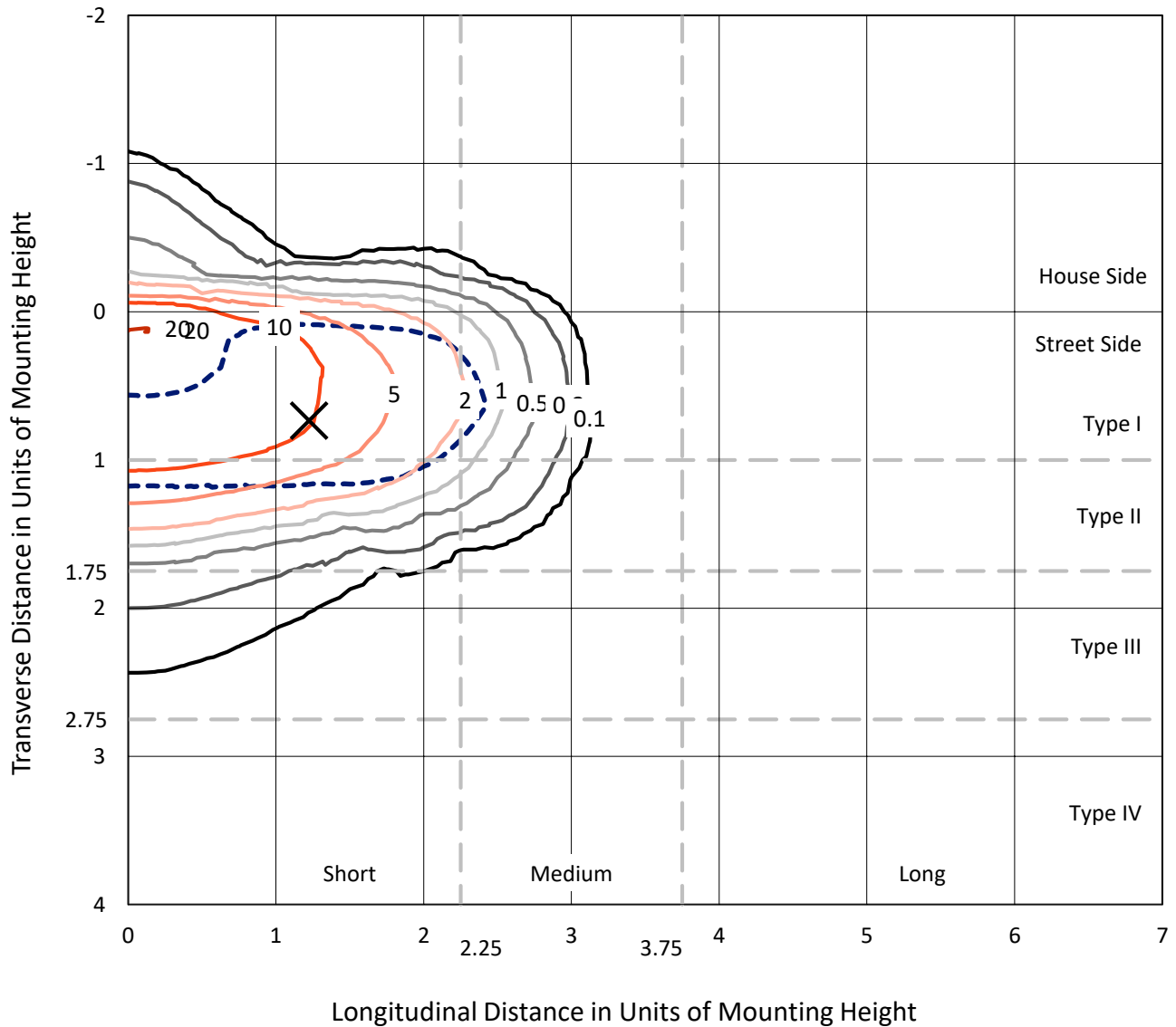


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Iso-Footcandle Lines of Horizontal Illumination

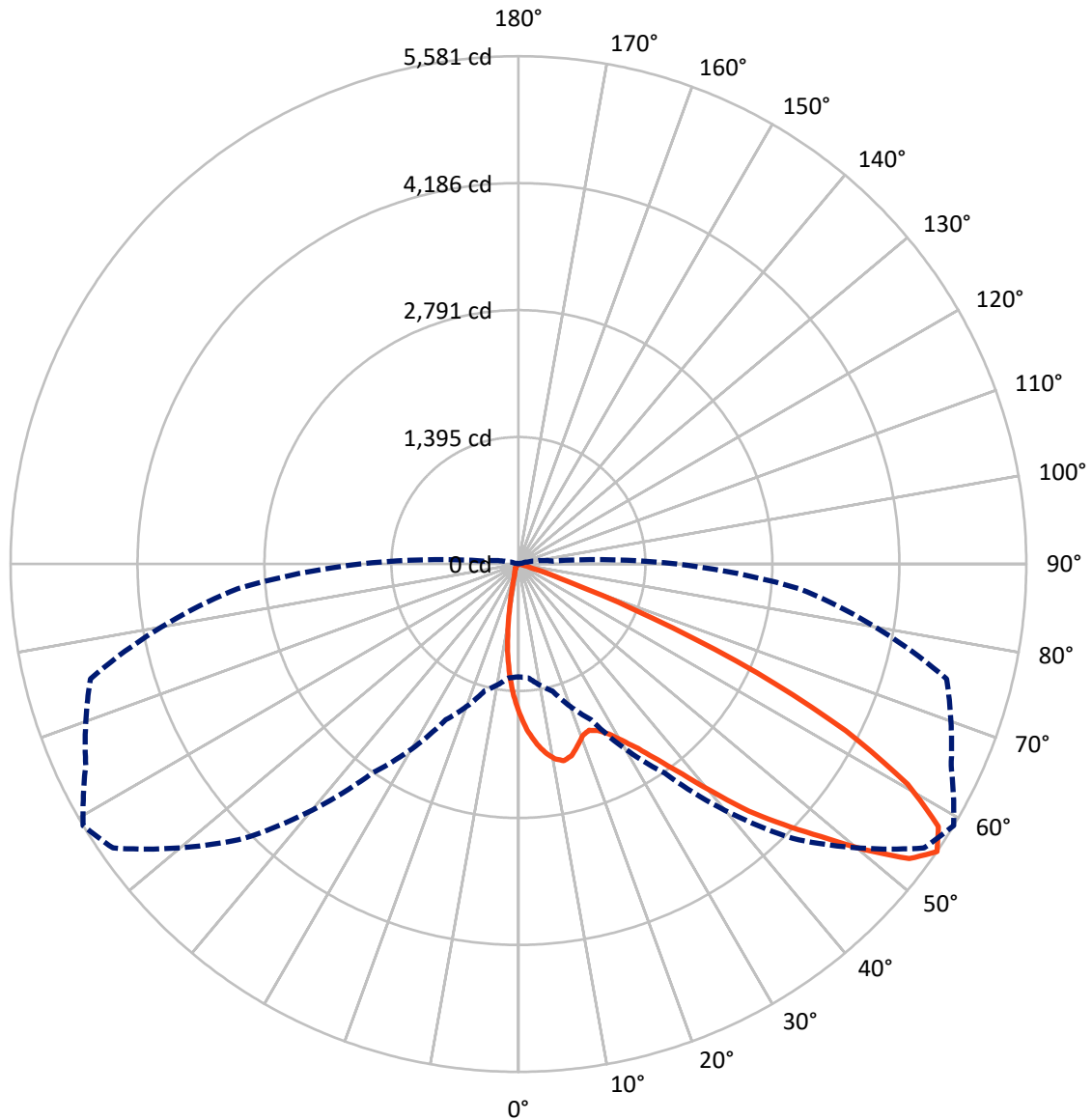
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 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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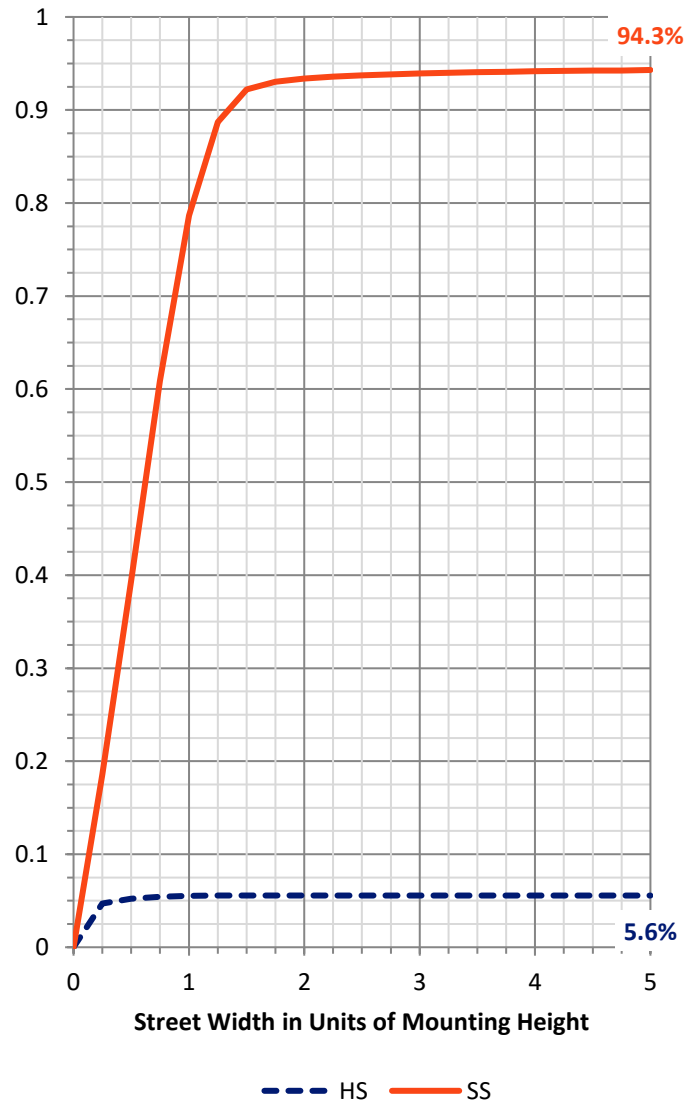
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	326.1	0.0	326.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5512.9	0.0	5512.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	5839.0	0.0	5839.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	2.4
10°-20°	329.6	5.6
20°-30°	560.9	9.6
30°-40°	964.6	16.5
40°-50°	1489.3	25.5
50°-60°	1497.2	25.6
60°-70°	767.8	13.1
70°-80°	83.2	1.4
80°-90°	8.7	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°	5839.0	100.0
0°-180°	5839.0	100.0



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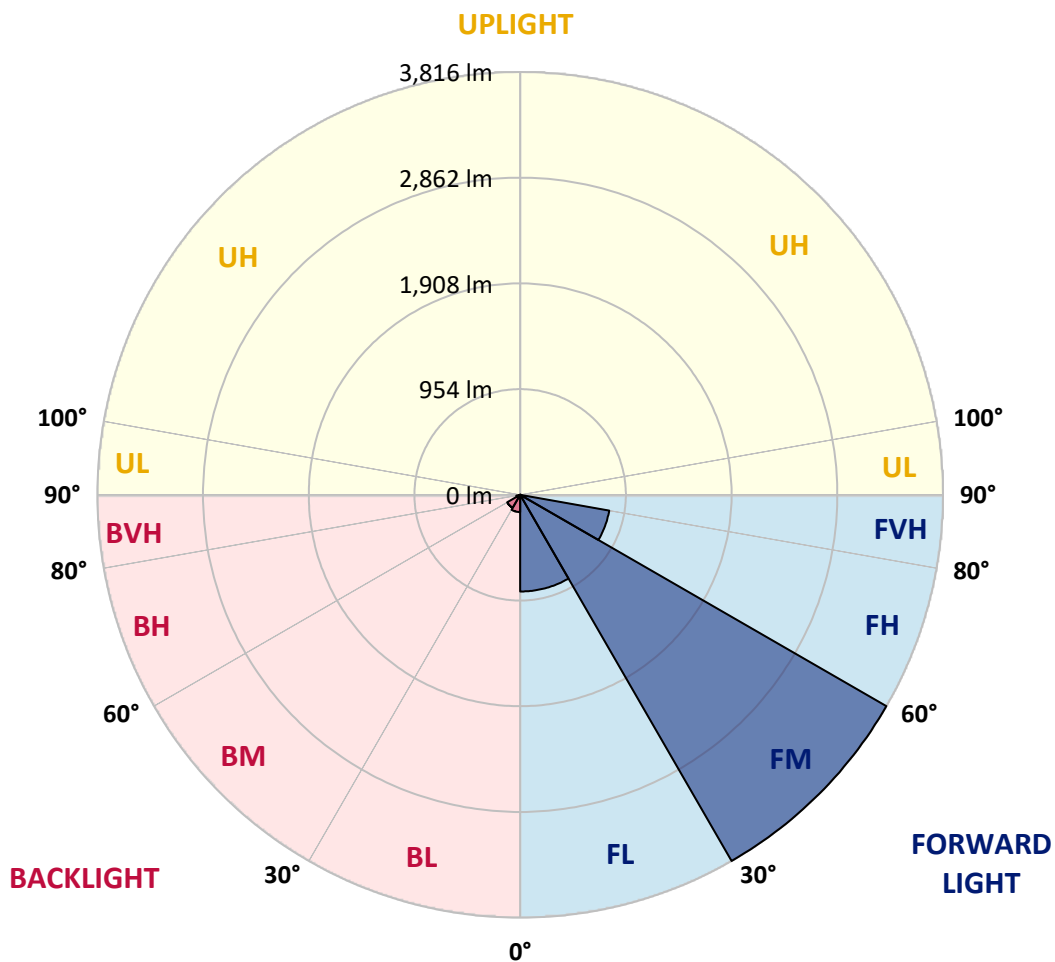
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	872.5	14.9			
FM	(30°-60°)	3815.8	65.3			
FH	(60°-80°)	816.0	14.0			G1/1800
FVH	(80°-90°)	8.5	0.1			G0/10
BL	(0°-30°)	155.7	2.7	B1/500		
BM	(30°-60°)	135.3	2.3	B0/220		
BH	(60°-80°)	34.9	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°	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7
2.5°	1944.8	1924.2	1917.9	1913.8	1894.8	1871.1	1838.7	1823.5	1792.5	1742.6	1681.2
5°	2122.9	2119.1	2105.4	2097.9	2077.5	2043.8	1992.0	1967.2	1917.9	1833.8	1724.0
7.5°	2045.1	2068.9	2087.8	2119.6	2159.4	2158.1	2114.7	2088.9	2033.7	1922.7	1771.5
10°	1744.2	1763.6	1794.6	1866.6	2013.4	2143.0	2193.9	2175.3	2131.2	2004.5	1817.4
12.5°	1685.3	1683.3	1688.8	1709.9	1786.7	1971.3	2180.5	2218.1	2209.2	2079.2	1860.7
15°	1716.7	1714.3	1713.6	1720.8	1739.4	1817.4	2079.6	2187.4	2256.6	2148.5	1897.6
17.5°	1804.6	1794.3	1788.7	1782.9	1777.4	1796.6	1958.2	2101.7	2263.9	2209.2	1928.3
20°	1955.2	1938.0	1917.6	1884.5	1853.5	1843.9	1907.3	2013.4	2238.1	2255.3	1948.3
22.5°	2144.3	2122.3	2087.1	2026.9	1963.8	1927.2	1932.5	1985.4	2199.4	2305.6	1957.6
25°	2357.0	2328.6	2281.8	2198.1	2105.4	2040.6	2006.8	2025.4	2181.9	2364.6	1968.3
27.5°	2584.7	2553.4	2492.0	2378.0	2272.9	2185.3	2116.4	2114.0	2211.8	2441.7	1985.4
30°	2810.5	2805.5	2725.7	2605.0	2465.8	2359.3	2260.1	2247.3	2295.6	2548.6	2019.6
32.5°	3111.6	3075.4	2977.5	2853.5	2692.9	2565.0	2447.6	2417.9	2424.1	2673.0	2072.3
35°	3491.3	3451.6	3313.8	3142.6	2963.1	2812.1	2682.3	2641.9	2626.7	2876.5	2161.2
37.5°	3736.6	3735.9	3649.5	3475.1	3282.4	3116.0	2974.7	2927.6	2896.9	3122.6	2299.1
40°	3743.2	3759.3	3770.8	3769.1	3631.9	3478.5	3353.1	3294.9	3223.5	3451.3	2477.2
42.5°	3542.3	3584.0	3684.3	3854.5	3935.8	3874.8	3769.1	3711.9	3605.7	3803.1	2694.2
45°	3270.8	3299.7	3475.1	3788.7	4100.5	4267.6	4187.0	4084.6	3944.8	4170.2	2889.0
47.5°	3149.2	3154.3	3267.7	3611.9	4113.0	4589.5	4638.5	4472.0	4252.8	4465.8	3041.3
50°	2785.6	2794.9	2951.3	3305.6	3967.5	4741.5	5091.9	4934.1	4588.9	4693.6	3096.8
52.5°	2099.5	2112.6	2311.2	2802.2	3567.8	4676.6	5416.5	5378.3	4956.8	4804.9	3099.8
55°	1238.8	1256.0	1445.5	1886.2	2806.3	4264.6	5440.6	5581.2	5247.3	4870.7	3095.0
57.5°	578.6	590.7	699.2	971.7	1745.4	3370.3	5077.4	5442.0	5407.5	4905.5	3129.1
60°	307.4	310.8	337.0	420.7	788.8	2137.1	4368.6	4914.1	5261.4	4953.7	3170.8
62.5°	235.0	236.0	234.7	244.7	331.5	948.7	3302.1	4039.8	4673.2	4917.5	3124.7
65°	203.7	205.4	195.7	193.3	212.6	338.4	1961.7	2879.7	3672.2	4429.3	2810.0
67.5°	182.6	183.3	171.7	161.6	165.1	183.0	774.0	1576.5	2430.7	3246.6	2036.8
70°	168.2	167.5	154.7	138.9	134.4	125.1	246.0	577.9	1161.6	1646.4	947.3
72.5°	148.8	149.2	143.0	122.3	111.6	87.6	114.1	168.5	346.7	448.7	221.9
75°	132.0	130.2	122.7	109.6	92.0	57.6	56.5	75.1	106.8	106.2	47.9
77.5°	95.4	93.7	96.2	89.9	70.7	37.2	28.2	36.2	43.4	42.0	13.4
80°	70.0	68.9	62.0	74.8	62.4	25.5	17.6	19.3	22.4	18.9	4.1
82.5°	47.9	47.6	43.8	41.3	35.5	15.5	11.0	12.1	14.4	10.6	2.0
85°	7.6	8.6	31.7	25.2	21.0	6.9	7.6	8.3	9.6	5.8	0.7
87.5°	0.0	0.0	14.8	13.1	4.1	2.8	4.5	4.8	4.8	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°	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7	1643.7
2.5°	1649.8	1615.4	1551.6	1485.8	1424.9	1352.1	1302.2	1264.6	1221.2	1209.4	1235.0
5°	1661.3	1596.1	1458.9	1309.8	1169.5	1014.2	895.2	801.2	716.1	687.1	713.3
7.5°	1679.2	1582.3	1358.7	1113.0	869.0	626.5	460.3	351.2	281.5	260.9	271.9
10°	1697.1	1562.4	1242.6	880.0	546.5	304.9	198.5	158.6	143.7	140.6	142.3
12.5°	1711.9	1535.4	1100.9	625.7	292.3	163.4	129.9	123.4	121.3	121.3	121.9
15°	1720.8	1494.8	933.1	398.0	168.2	123.4	113.3	111.3	111.3	111.6	112.3
17.5°	1719.8	1443.1	749.5	240.9	125.8	109.3	103.4	101.7	101.3	102.0	102.3
20°	1707.1	1375.6	565.1	158.9	109.6	99.6	93.7	90.6	90.3	90.9	91.7
22.5°	1683.0	1292.2	404.2	122.3	98.9	90.3	83.1	80.3	80.3	81.0	81.6
25°	1653.7	1190.2	276.4	103.7	89.2	80.3	73.3	71.0	71.7	73.3	73.8
27.5°	1617.1	1075.4	187.8	88.9	77.5	70.3	65.2	63.4	65.2	67.5	68.2
30°	1585.8	955.8	134.0	76.8	65.8	60.7	57.6	57.6	59.9	64.4	65.5
32.5°	1561.6	840.0	103.4	67.9	57.2	52.7	51.0	52.7	56.5	61.0	62.0
35°	1558.6	744.6	87.6	60.7	51.0	46.5	45.8	48.9	52.7	56.2	56.9
37.5°	1582.3	656.4	78.9	54.8	45.5	41.3	40.6	44.5	48.3	52.4	53.4
40°	1627.4	587.2	72.7	49.3	41.0	36.5	35.2	38.0	43.1	48.6	49.9
42.5°	1686.0	530.0	65.8	43.8	36.5	30.3	28.6	31.7	37.2	43.1	44.8
45°	1741.9	480.7	58.2	37.5	30.7	23.4	22.7	26.9	29.7	35.5	36.8
47.5°	1772.6	437.3	51.7	30.7	23.7	18.9	18.9	19.9	22.7	29.7	31.0
50°	1762.2	402.4	44.8	22.7	16.6	14.4	14.4	14.1	18.3	23.7	24.9
52.5°	1741.5	382.5	38.6	17.6	11.4	10.3	9.3	10.3	12.8	15.1	15.5
55°	1738.4	379.0	32.4	14.1	7.9	6.9	5.2	5.2	5.2	4.8	4.1
57.5°	1762.5	384.5	27.2	11.4	5.8	4.5	2.8	0.0	0.0	0.0	0.0
60°	1787.3	390.5	23.4	7.9	4.1	2.5	0.3	0.0	0.0	0.0	0.0
62.5°	1746.0	377.4	19.6	4.8	3.1	1.0	0.0	0.0	0.0	0.0	0.0
65°	1533.7	321.1	15.5	3.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1091.0	215.0	10.3	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	498.0	89.9	6.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	106.5	27.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.7	20.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.9	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.1	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.7	3.5	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)