

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: P270111

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270111
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-02-LED-E1-AFL-7027-600-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES 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: 5722.6 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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

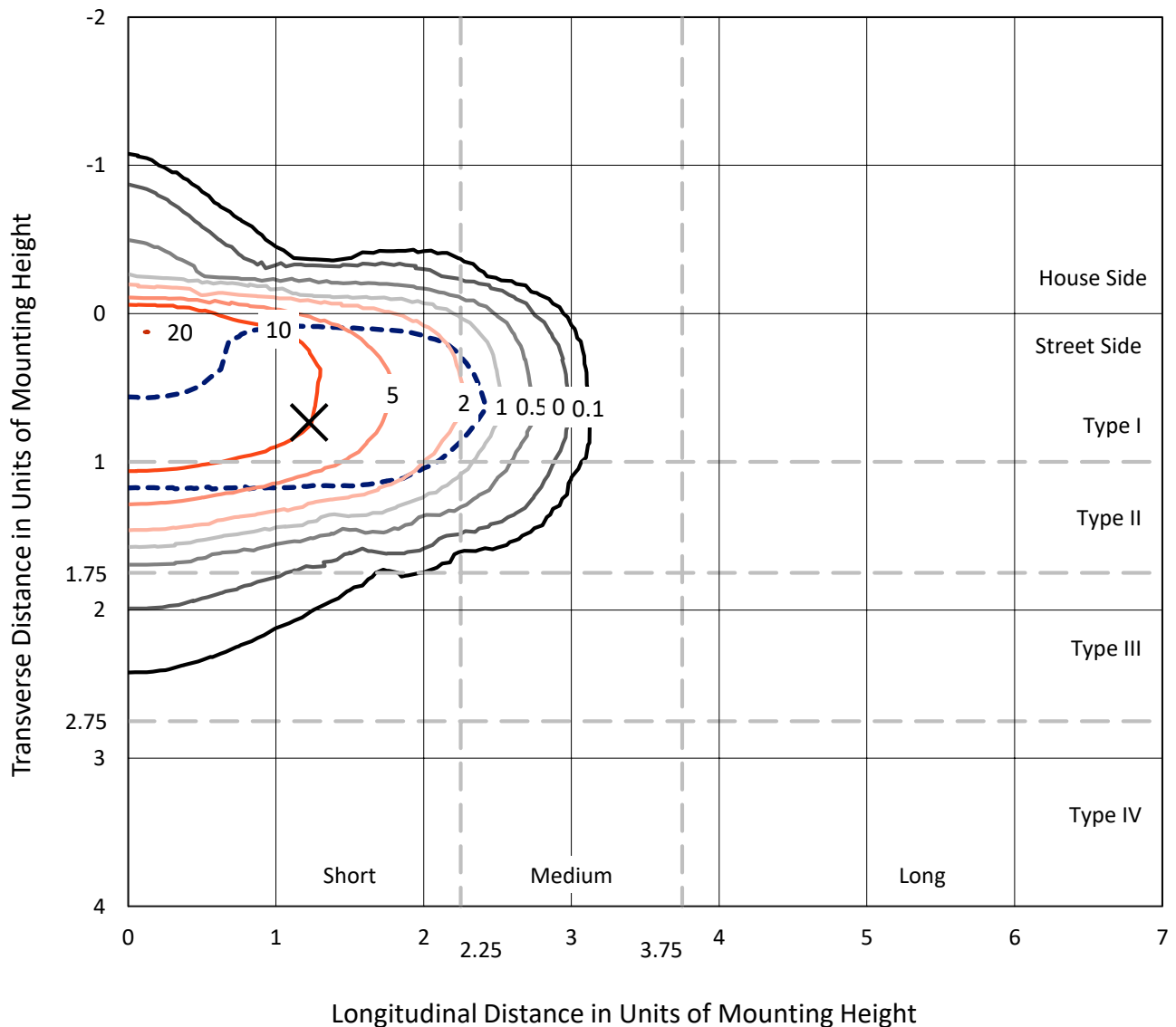


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

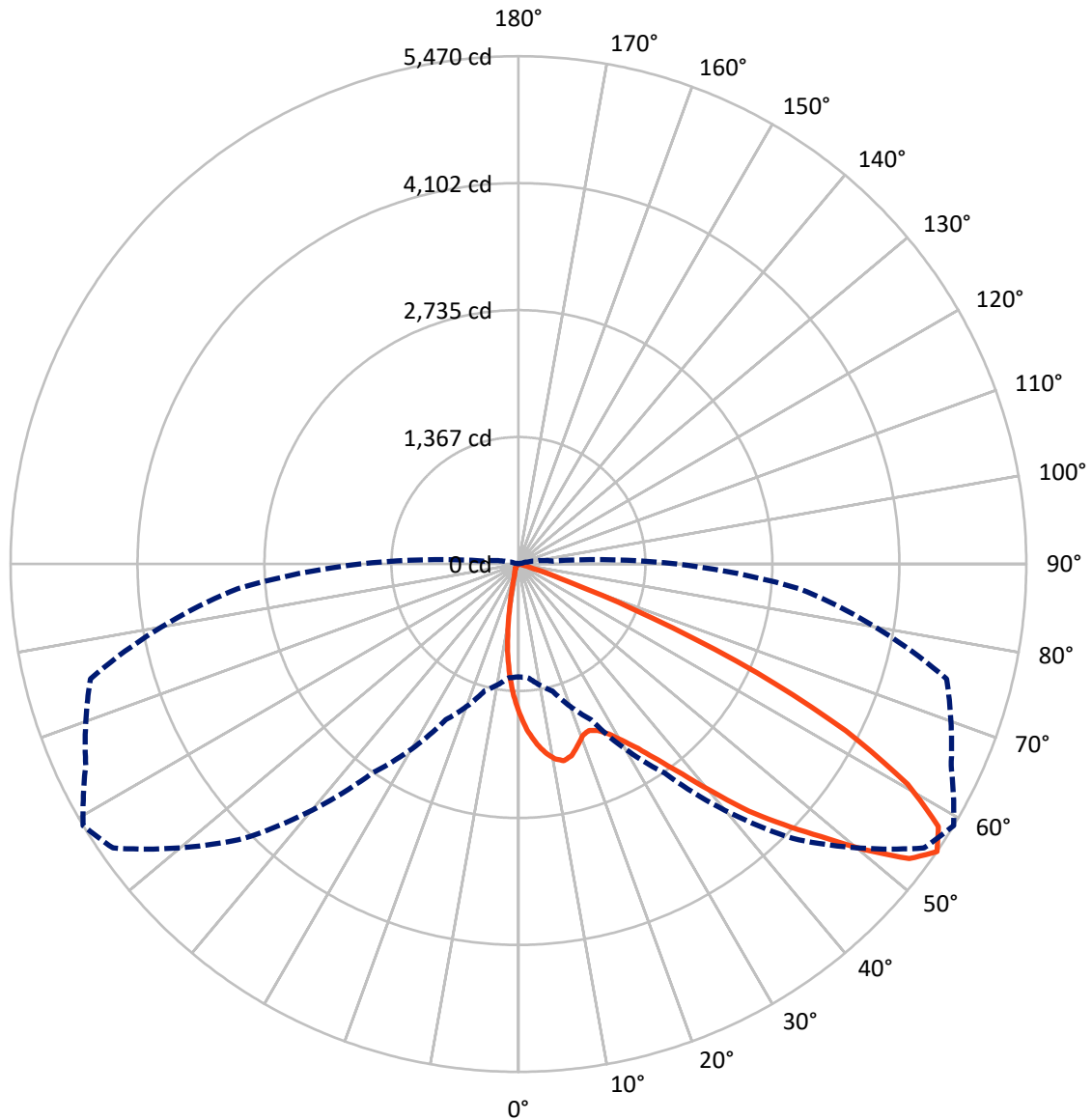


Based on 10 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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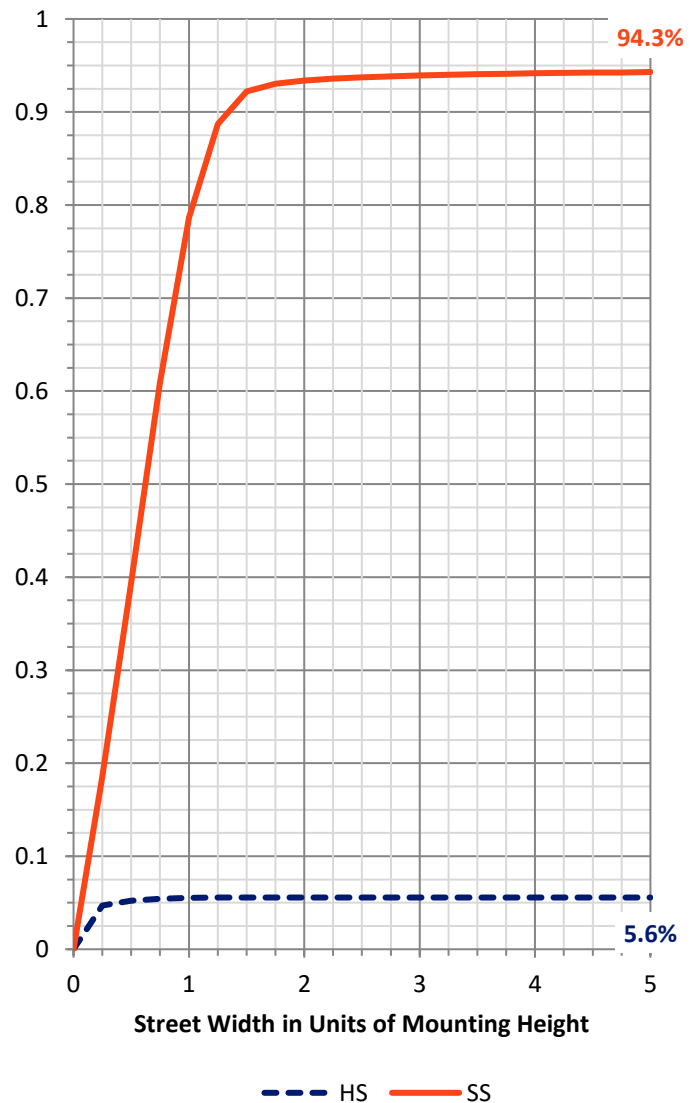
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	319.7	0.0	319.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5402.9	0.0	5402.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	5722.6	0.0	5722.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	2.4
10°-20°	323.1	5.6
20°-30°	549.7	9.6
30°-40°	945.4	16.5
40°-50°	1459.6	25.5
50°-60°	1467.3	25.6
60°-70°	752.5	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°	5722.6	100.0
0°-180°	5722.6	100.0

Coefficient of Utilization



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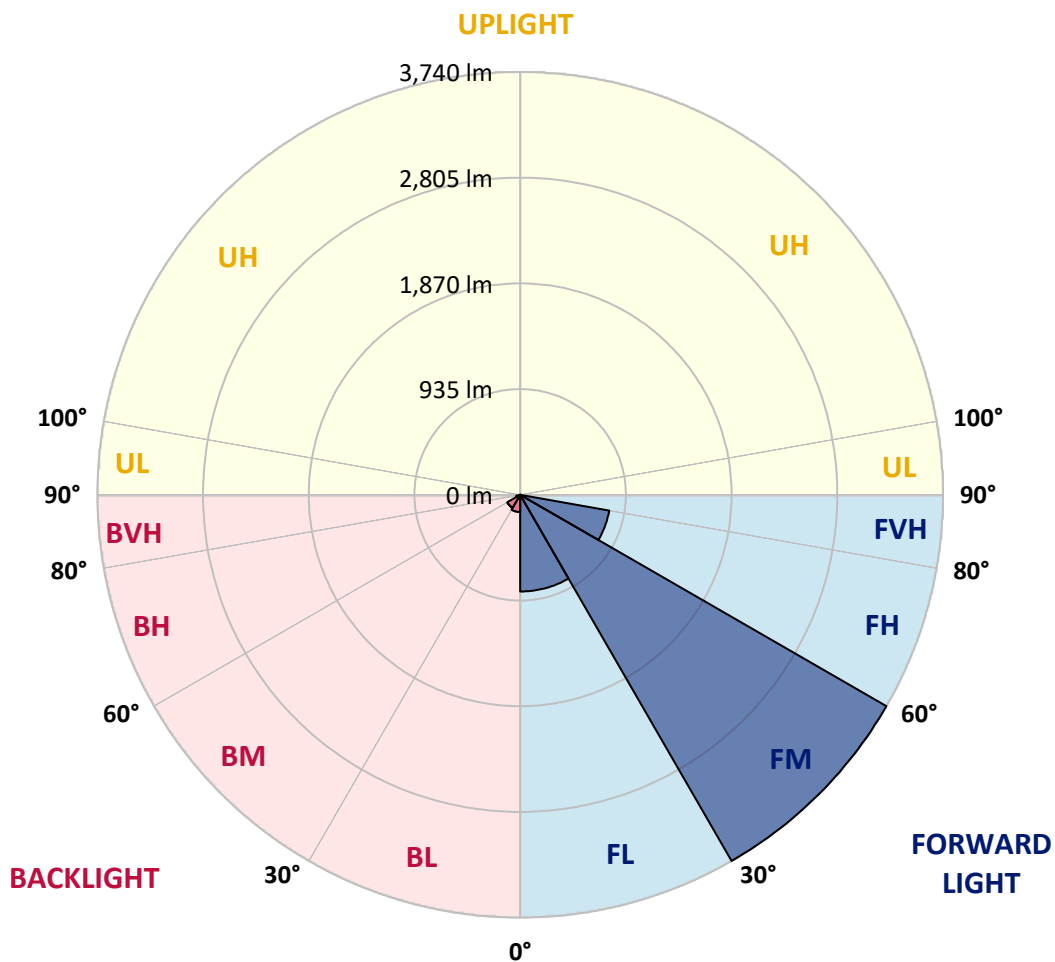
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	855.1	14.9			
FM	(30°-60°)	3739.6	65.3			
FH	(60°-80°)	799.8	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°	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9
2.5°	1906.0	1885.8	1879.7	1875.7	1857.1	1833.8	1802.0	1787.2	1756.8	1707.8	1647.7
5°	2080.6	2077.0	2063.4	2056.0	2036.0	2003.0	1952.3	1927.9	1879.7	1797.3	1689.5
7.5°	2004.3	2027.7	2046.2	2077.2	2116.4	2115.1	2072.5	2047.2	1993.2	1884.5	1736.2
10°	1709.5	1728.4	1758.8	1829.3	1973.2	2100.1	2150.2	2131.9	2088.7	1964.4	1781.1
12.5°	1651.7	1649.7	1655.1	1675.8	1751.0	1932.0	2137.1	2173.8	2165.0	2037.7	1823.6
15°	1682.5	1680.1	1679.4	1686.6	1704.8	1781.1	2038.1	2143.8	2211.6	2105.6	1859.8
17.5°	1768.6	1758.4	1753.0	1747.3	1741.9	1760.9	1919.1	2059.6	2218.7	2165.0	1889.9
20°	1916.2	1899.3	1879.3	1846.9	1816.6	1807.0	1869.2	1973.2	2193.4	2210.3	1909.4
22.5°	2101.5	2079.9	2045.4	1986.4	1924.6	1888.8	1893.9	1945.9	2155.6	2259.6	1918.5
25°	2309.9	2282.2	2236.3	2154.2	2063.4	1999.9	1966.8	1985.1	2138.4	2317.4	1929.0
27.5°	2533.1	2502.4	2442.3	2330.5	2227.5	2141.7	2074.2	2071.9	2167.7	2393.0	1945.9
30°	2754.4	2749.6	2671.3	2553.1	2416.6	2312.2	2215.0	2202.6	2249.8	2497.7	1979.3
32.5°	3049.5	3014.1	2918.1	2796.5	2639.1	2513.9	2398.7	2369.6	2375.7	2619.5	2031.0
35°	3421.6	3382.8	3247.7	3079.9	2903.9	2756.0	2628.7	2589.2	2574.3	2819.2	2118.1
37.5°	3662.0	3661.4	3576.7	3405.8	3217.0	3054.0	2915.4	2869.2	2839.1	3060.3	2253.2
40°	3668.5	3684.4	3695.5	3693.8	3559.4	3409.2	3286.3	3229.1	3159.2	3382.5	2427.8
42.5°	3471.6	3512.6	3610.7	3777.6	3857.2	3797.5	3693.8	3637.8	3533.8	3727.3	2640.5
45°	3205.5	3233.9	3405.8	3713.1	4018.7	4182.5	4103.5	4003.1	3866.0	4086.9	2831.4
47.5°	3086.3	3091.3	3202.5	3539.9	4030.9	4497.9	4545.9	4382.7	4168.0	4376.6	2980.6
50°	2730.0	2739.1	2892.5	3239.6	3888.3	4646.9	4990.3	4835.6	4497.3	4599.9	3035.0
52.5°	2057.7	2070.5	2265.0	2746.2	3496.6	4583.4	5308.4	5271.0	4857.9	4709.0	3038.0
55°	1214.1	1230.9	1416.7	1848.6	2750.3	4179.5	5332.1	5469.8	5142.6	4773.5	3033.3
57.5°	567.0	578.8	685.2	952.3	1710.5	3303.2	4976.1	5333.4	5299.6	4807.6	3066.7
60°	301.2	304.6	330.3	412.4	773.0	2094.5	4281.4	4816.0	5156.5	4854.9	3107.6
62.5°	230.3	231.4	230.1	239.8	324.8	929.7	3236.3	3959.3	4580.0	4819.4	3062.3
65°	199.6	201.3	191.8	189.5	208.4	331.7	1922.6	2822.2	3599.0	4340.9	2753.9
67.5°	178.9	179.7	168.2	158.5	161.8	179.4	758.4	1545.0	2382.2	3181.9	1996.2
70°	164.8	164.1	151.6	136.2	131.7	122.6	241.1	566.4	1138.4	1613.6	928.4
72.5°	145.9	146.2	140.2	119.9	109.4	85.8	111.8	165.2	339.7	439.7	217.5
75°	129.4	127.6	120.2	107.3	90.2	56.4	55.4	73.7	104.7	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°	68.6	67.6	60.8	73.3	61.2	25.0	17.2	19.0	22.0	18.6	4.0
82.5°	47.0	46.6	42.9	40.5	34.9	15.3	10.8	11.9	14.2	10.5	2.1
85°	7.5	8.5	31.1	24.7	20.7	6.7	7.5	8.1	9.4	5.7	0.7
87.5°	0.0	0.0	14.6	12.8	4.0	2.7	4.4	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°	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9	1610.9
2.5°	1616.9	1583.2	1520.7	1456.2	1396.4	1325.1	1276.2	1239.3	1196.8	1185.3	1210.3
5°	1628.1	1564.3	1429.8	1283.6	1146.1	993.9	877.4	785.2	701.8	673.4	699.1
7.5°	1645.6	1550.8	1331.6	1090.7	851.7	613.9	451.1	344.1	276.0	255.7	266.5
10°	1663.2	1531.3	1217.7	862.5	535.6	298.9	194.5	155.3	140.9	137.8	139.5
12.5°	1677.8	1504.8	1079.0	613.3	286.4	160.1	127.4	120.9	118.8	118.8	119.6
15°	1686.6	1465.0	914.5	390.0	164.8	120.9	111.1	109.1	109.1	109.4	110.1
17.5°	1685.5	1414.3	734.5	236.1	123.3	107.1	101.3	99.7	99.3	100.0	100.3
20°	1673.0	1348.1	553.8	155.8	107.3	97.6	91.9	88.8	88.5	89.1	89.8
22.5°	1649.4	1266.3	396.2	119.9	96.9	88.5	81.5	78.7	78.7	79.4	80.0
25°	1620.6	1166.4	270.8	101.7	87.5	78.7	72.0	69.5	70.2	72.0	72.2
27.5°	1584.9	1054.0	184.1	87.1	76.0	68.9	63.9	62.2	63.9	66.2	66.8
30°	1554.2	936.8	131.4	75.4	64.6	59.5	56.4	56.4	58.7	63.2	64.1
32.5°	1530.5	823.3	101.3	66.6	56.1	51.7	49.9	51.7	55.4	59.8	60.8
35°	1527.5	729.8	85.8	59.5	49.9	45.6	45.0	48.0	51.7	55.1	55.8
37.5°	1550.8	643.4	77.3	53.7	44.6	40.5	39.9	43.6	47.3	51.3	52.4
40°	1595.0	575.5	71.3	48.3	40.2	35.8	34.4	37.2	42.2	47.7	49.0
42.5°	1652.4	519.4	64.6	42.9	35.8	29.7	28.1	31.1	36.5	42.2	43.9
45°	1707.1	471.2	57.1	36.8	30.1	23.0	22.3	26.3	29.0	34.9	36.2
47.5°	1737.2	428.6	50.7	30.1	23.4	18.6	18.6	19.6	22.3	29.0	30.4
50°	1727.1	394.4	43.9	22.3	16.2	14.2	14.2	13.9	18.0	23.4	24.3
52.5°	1706.8	374.9	37.8	17.2	11.2	10.2	9.2	10.2	12.6	14.8	15.3
55°	1703.7	371.4	31.7	13.9	7.8	6.7	5.1	5.1	5.1	4.8	4.0
57.5°	1727.4	376.8	26.8	11.2	5.7	4.4	2.7	0.0	0.0	0.0	0.0
60°	1751.7	382.7	23.0	7.8	4.0	2.4	0.4	0.0	0.0	0.0	0.0
62.5°	1711.2	369.8	19.3	4.8	3.1	1.1	0.0	0.0	0.0	0.0	0.0
65°	1503.1	314.8	15.3	3.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1069.2	210.7	10.2	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	488.0	88.2	6.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	104.4	27.4	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°	6.7	31.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.0	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)