

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: P193450

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193450
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-02-LED-E1-AFL-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 5360 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' 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

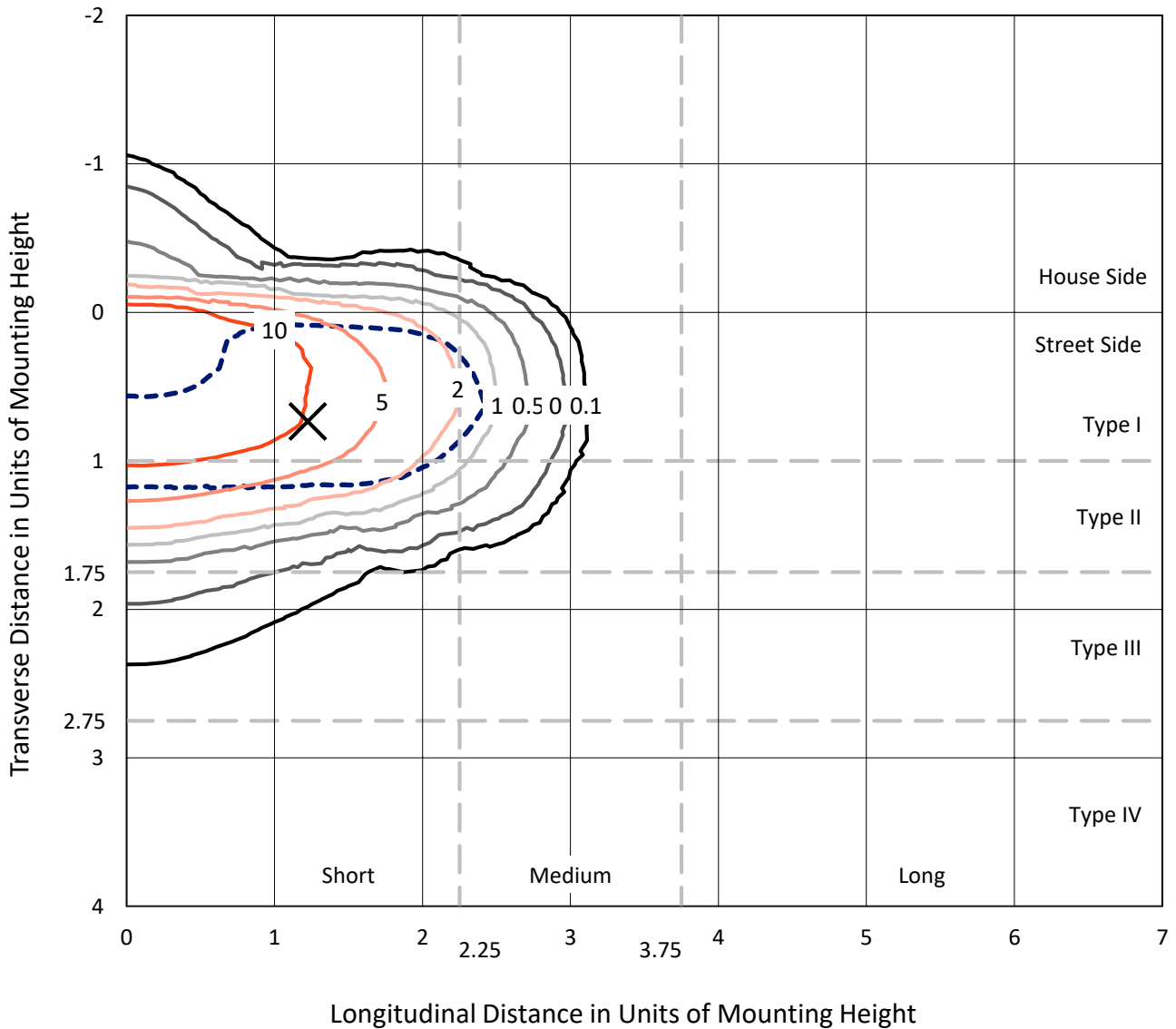


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

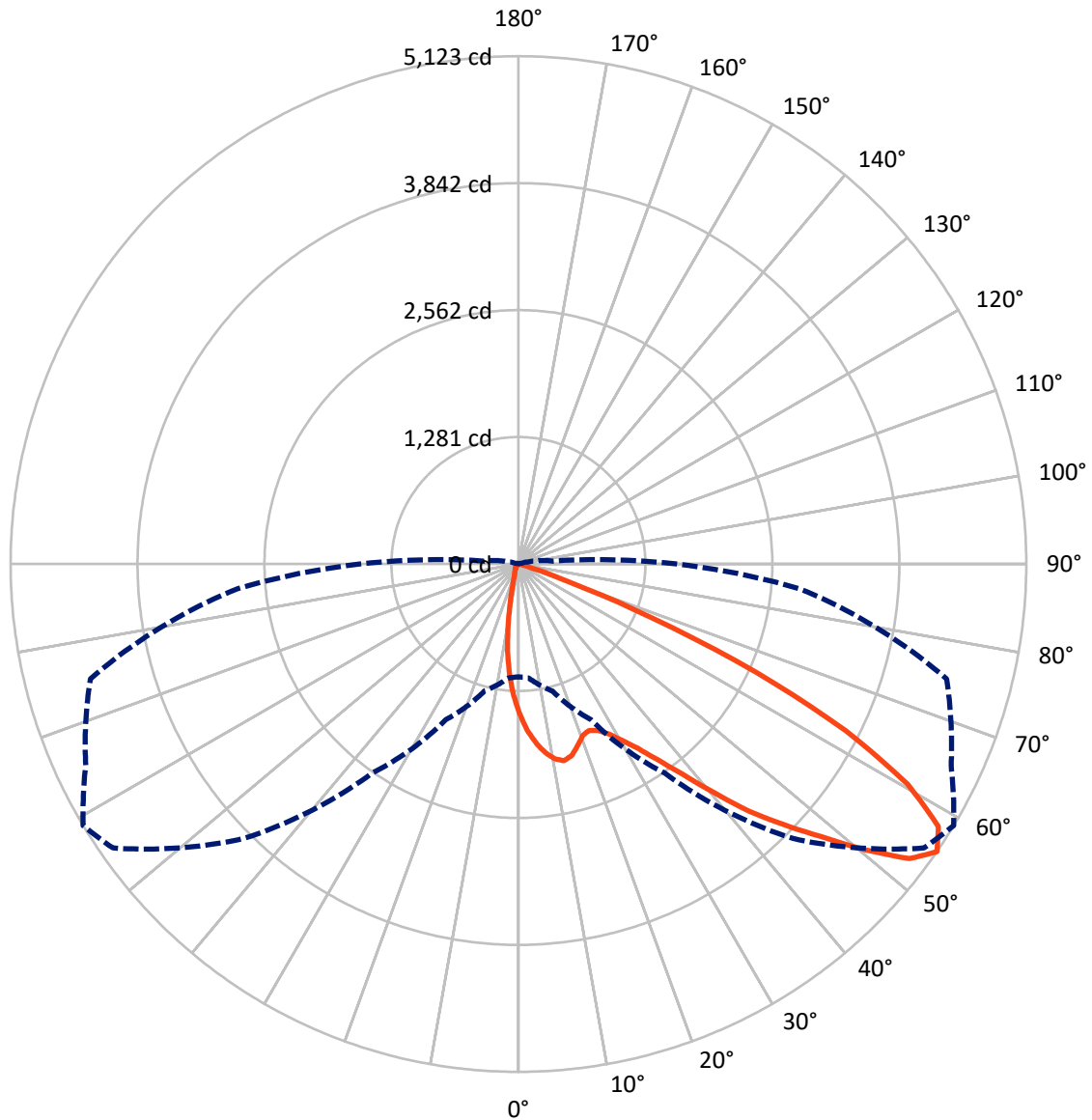


Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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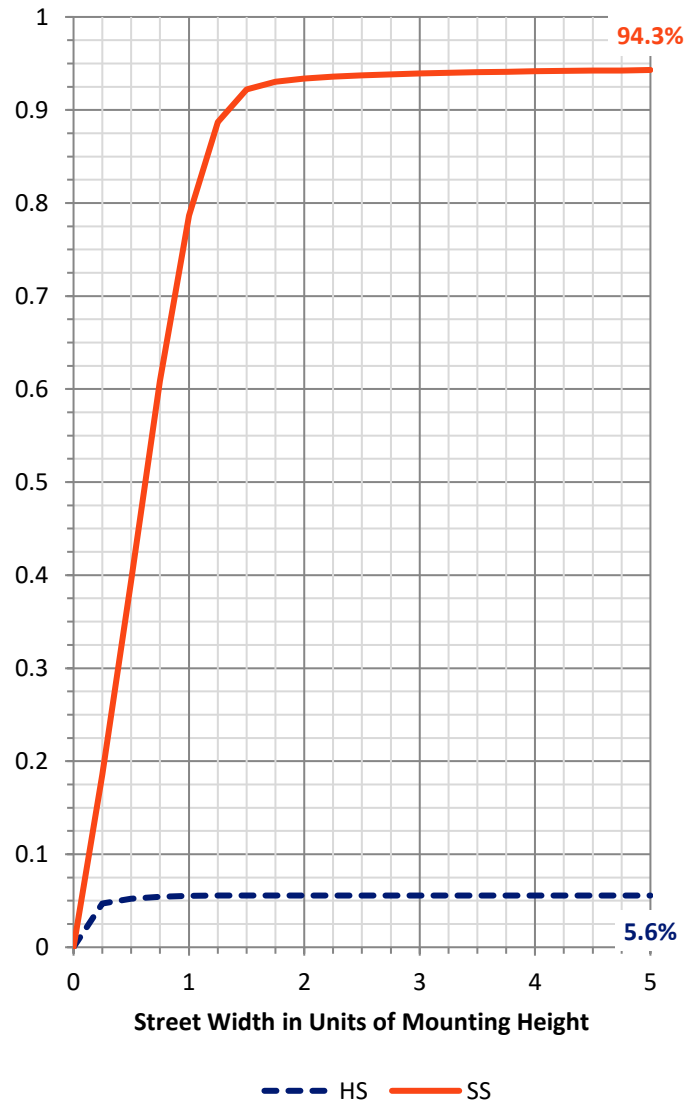
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	299.4	0.0	299.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5060.6	0.0	5060.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	5360.0	0.0	5360.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	2.4
10°-20°	302.6	5.6
20°-30°	514.9	9.6
30°-40°	885.5	16.5
40°-50°	1367.1	25.5
50°-60°	1374.4	25.6
60°-70°	704.8	13.1
70°-80°	76.4	1.4
80°-90°	8.0	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°	5360.0	100.0
0°-180°	5360.0	100.0



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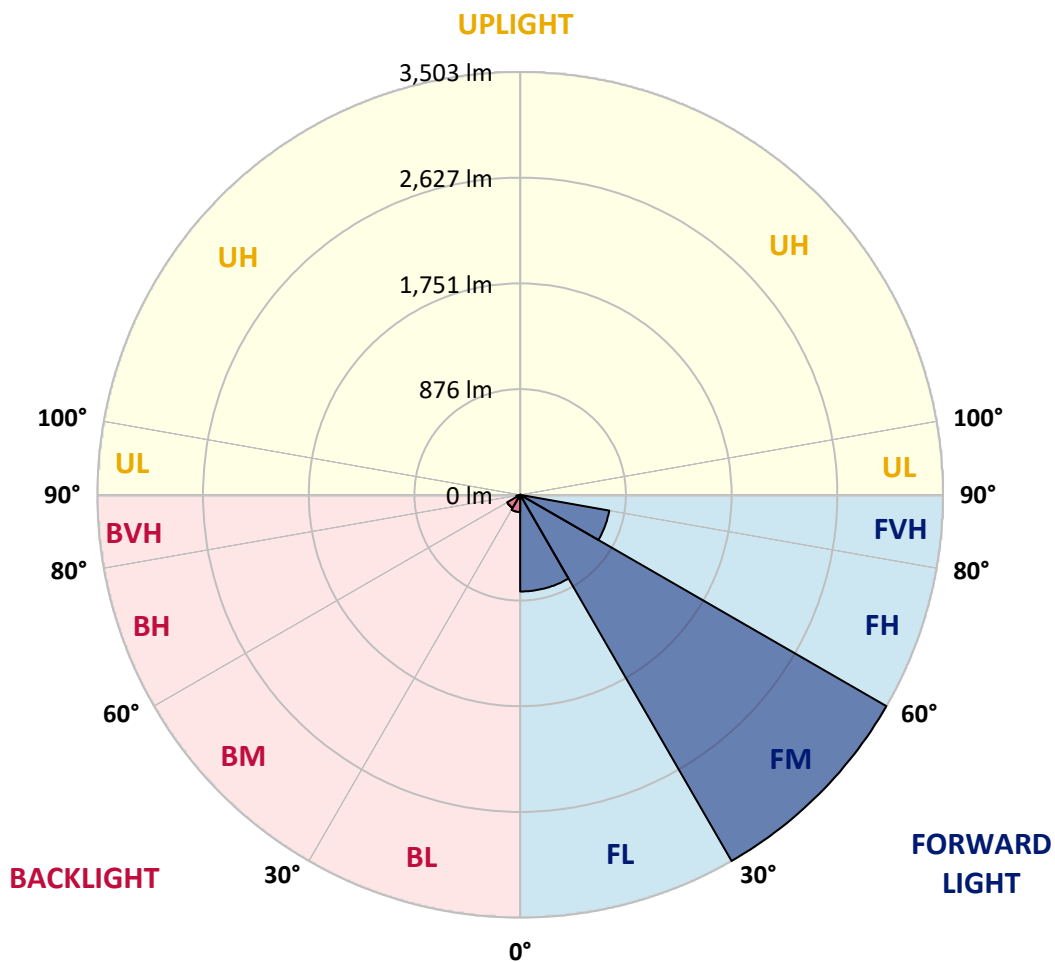
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.0	14.9			
FM (30°-60°)	3502.7	65.3			
FH (60°-80°)	749.1	14.0			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	142.9	2.7	B1/500		
BM (30°-60°)	124.2	2.3	B0/220		
BH (60°-80°)	32.1	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°	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8
2.5°	1785.3	1766.3	1760.6	1756.8	1739.4	1717.6	1687.9	1673.9	1645.5	1599.6	1543.3
5°	1948.8	1945.3	1932.7	1925.7	1907.1	1876.1	1828.6	1805.8	1760.6	1683.4	1582.5
7.5°	1877.3	1899.2	1916.6	1945.7	1982.3	1981.1	1941.2	1917.5	1866.9	1765.0	1626.2
10°	1601.2	1618.9	1647.4	1713.5	1848.2	1967.2	2014.0	1996.9	1956.4	1840.0	1668.2
12.5°	1547.1	1545.2	1550.3	1569.6	1640.1	1809.6	2001.6	2036.1	2027.9	1908.6	1708.1
15°	1575.9	1573.7	1573.0	1579.7	1596.8	1668.2	1909.0	2008.0	2071.5	1972.2	1741.9
17.5°	1656.5	1647.1	1642.0	1636.6	1631.6	1649.3	1797.6	1929.2	2078.2	2027.9	1770.1
20°	1794.8	1779.0	1760.3	1729.9	1701.5	1692.6	1750.8	1848.2	2054.5	2070.3	1788.4
22.5°	1968.4	1948.2	1915.9	1860.6	1802.7	1769.1	1773.9	1822.6	2019.0	2116.5	1797.0
25°	2163.6	2137.7	2094.6	2017.8	1932.7	1873.2	1842.2	1859.3	2002.9	2170.6	1806.8
27.5°	2372.7	2343.9	2287.6	2182.9	2086.4	2006.1	1942.8	1940.6	2030.4	2241.4	1822.6
30°	2579.9	2575.4	2502.0	2391.3	2263.5	2165.8	2074.7	2063.0	2107.3	2339.5	1853.9
32.5°	2856.3	2823.1	2733.3	2619.4	2472.0	2354.6	2246.8	2219.6	2225.3	2453.7	1902.3
35°	3204.9	3168.5	3042.0	2884.8	2720.0	2581.4	2462.2	2425.2	2411.3	2640.6	1983.9
37.5°	3430.1	3429.5	3350.1	3190.0	3013.2	2860.4	2730.7	2687.4	2659.3	2866.4	2110.5
40°	3436.1	3451.0	3461.4	3459.8	3334.0	3193.2	3078.1	3024.6	2959.1	3168.2	2274.0
42.5°	3251.7	3290.0	3382.0	3538.3	3612.9	3557.0	3459.8	3407.3	3309.9	3491.2	2473.3
45°	3002.5	3029.0	3190.0	3477.9	3764.1	3917.6	3843.5	3749.6	3621.2	3828.0	2652.0
47.5°	2890.8	2895.5	2999.6	3315.6	3775.5	4213.0	4257.9	4105.1	3904.0	4099.4	2791.8
50°	2557.1	2565.6	2709.2	3034.4	3642.0	4352.5	4674.2	4529.3	4212.4	4308.5	2842.7
52.5°	1927.3	1939.3	2121.5	2572.3	3275.1	4293.0	4972.1	4937.0	4550.2	4410.7	2845.6
55°	1137.2	1153.0	1326.9	1731.5	2576.1	3914.7	4994.3	5123.3	4816.8	4471.1	2841.1
57.5°	531.1	542.2	641.8	892.0	1602.1	3093.9	4660.9	4995.6	4963.9	4503.1	2872.5
60°	282.2	285.3	309.4	386.2	724.0	1961.8	4010.2	4511.0	4829.8	4547.3	2910.7
62.5°	215.7	216.7	215.4	224.6	304.3	870.8	3031.2	3708.5	4289.9	4514.1	2868.3
65°	186.9	188.5	179.7	177.5	195.2	310.6	1800.8	2643.4	3371.0	4065.9	2579.5
67.5°	167.6	168.3	157.5	148.4	151.5	168.0	710.4	1447.1	2231.3	2980.3	1869.7
70°	154.4	153.7	142.0	127.5	123.4	114.8	225.8	530.5	1066.3	1511.4	869.5
72.5°	136.6	137.0	131.3	112.3	102.5	80.3	104.7	154.7	318.2	411.8	203.7
75°	121.1	119.6	112.6	100.6	84.5	52.8	51.9	69.0	98.1	97.4	44.0
77.5°	87.6	86.0	88.3	82.6	64.8	34.2	25.9	33.2	39.9	38.6	12.3
80°	64.2	63.3	56.9	68.6	57.3	23.4	16.1	17.7	20.6	17.4	3.8
82.5°	44.0	43.7	40.2	38.0	32.6	14.2	10.1	11.1	13.3	9.8	1.9
85°	7.0	7.9	29.1	23.1	19.3	6.3	7.0	7.6	8.9	5.4	0.6
87.5°	0.0	0.0	13.6	12.0	3.8	2.5	4.1	4.4	4.4	2.8	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°	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8	1508.8
2.5°	1514.5	1482.9	1424.4	1363.9	1308.0	1241.2	1195.4	1160.9	1121.0	1110.3	1133.7
5°	1525.0	1465.2	1339.3	1202.3	1073.6	930.9	821.8	735.4	657.3	630.7	654.8
7.5°	1541.4	1452.5	1247.2	1021.7	797.7	575.1	422.6	322.3	258.4	239.5	249.6
10°	1557.8	1434.2	1140.6	807.9	501.7	279.9	182.2	145.5	131.9	129.1	130.6
12.5°	1571.5	1409.5	1010.6	574.4	268.2	149.9	119.3	113.2	111.3	111.3	112.0
15°	1579.7	1372.2	856.6	365.3	154.4	113.2	104.1	102.2	102.2	102.5	103.1
17.5°	1578.7	1324.7	688.0	221.1	115.5	100.3	94.9	93.3	93.0	93.6	93.9
20°	1567.0	1262.7	518.8	145.8	100.6	91.4	86.0	83.2	82.9	83.5	84.1
22.5°	1544.9	1186.2	371.0	112.3	90.8	82.9	76.2	73.7	73.7	74.3	75.0
25°	1518.0	1092.6	253.7	95.2	81.9	73.7	67.4	65.2	65.8	67.4	67.7
27.5°	1484.5	987.2	172.4	81.6	71.2	64.5	59.8	58.2	59.8	62.0	62.6
30°	1455.7	877.5	123.0	70.5	60.4	55.7	52.8	52.8	55.0	59.2	60.1
32.5°	1433.5	771.2	94.9	62.3	52.5	48.4	46.8	48.4	51.9	56.0	56.9
35°	1430.7	683.6	80.3	55.7	46.8	42.7	42.1	44.9	48.4	51.6	52.2
37.5°	1452.5	602.6	72.4	50.3	41.8	38.0	37.3	40.8	44.3	48.1	49.0
40°	1494.0	539.0	66.7	45.2	37.6	33.5	32.3	34.8	39.5	44.6	45.9
42.5°	1547.7	486.5	60.4	40.2	33.5	27.8	26.3	29.1	34.2	39.5	41.1
45°	1599.0	441.3	53.5	34.5	28.2	21.5	20.9	24.7	27.2	32.6	33.8
47.5°	1627.1	401.4	47.4	28.2	21.8	17.4	17.4	18.3	20.9	27.2	28.5
50°	1617.6	369.5	41.1	20.9	15.2	13.3	13.3	13.0	16.8	21.8	22.8
52.5°	1598.7	351.1	35.4	16.1	10.4	9.5	8.5	9.5	11.7	13.9	14.2
55°	1595.8	347.9	29.7	13.0	7.3	6.3	4.7	4.7	4.7	4.4	3.8
57.5°	1617.9	353.0	25.0	10.4	5.4	4.1	2.5	0.0	0.0	0.0	0.0
60°	1640.7	358.4	21.5	7.3	3.8	2.2	0.3	0.0	0.0	0.0	0.0
62.5°	1602.8	346.4	18.0	4.4	2.8	0.9	0.0	0.0	0.0	0.0	0.0
65°	1407.9	294.8	14.2	3.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1001.5	197.4	9.5	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	457.1	82.6	6.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	97.7	25.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	19.9	18.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.3	29.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.8	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.6	3.2	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)