

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: P193460

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193460
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-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA 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: 6573 lumens
Efficiency: N/A
Efficacy: 77.3 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): 85
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

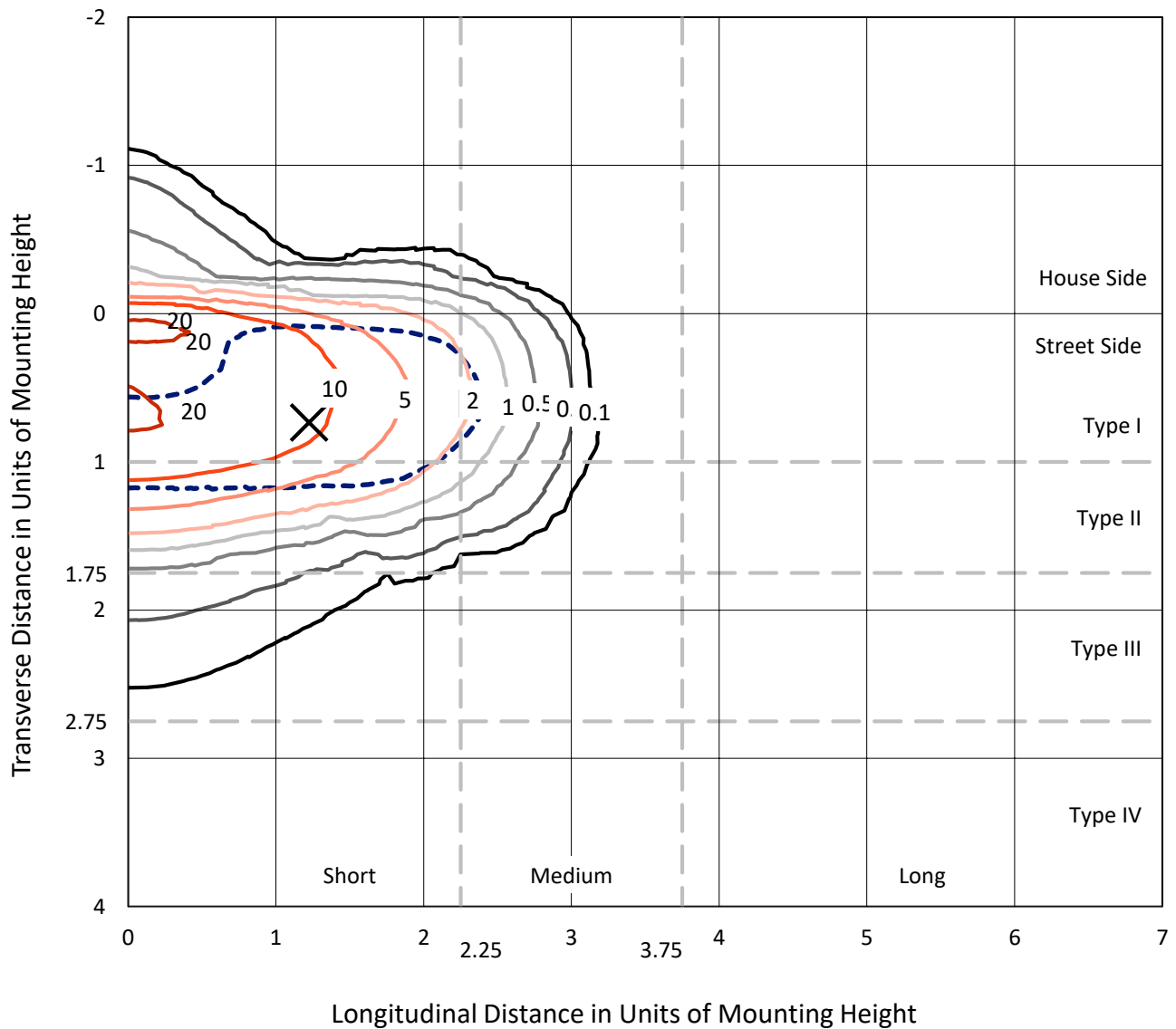


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

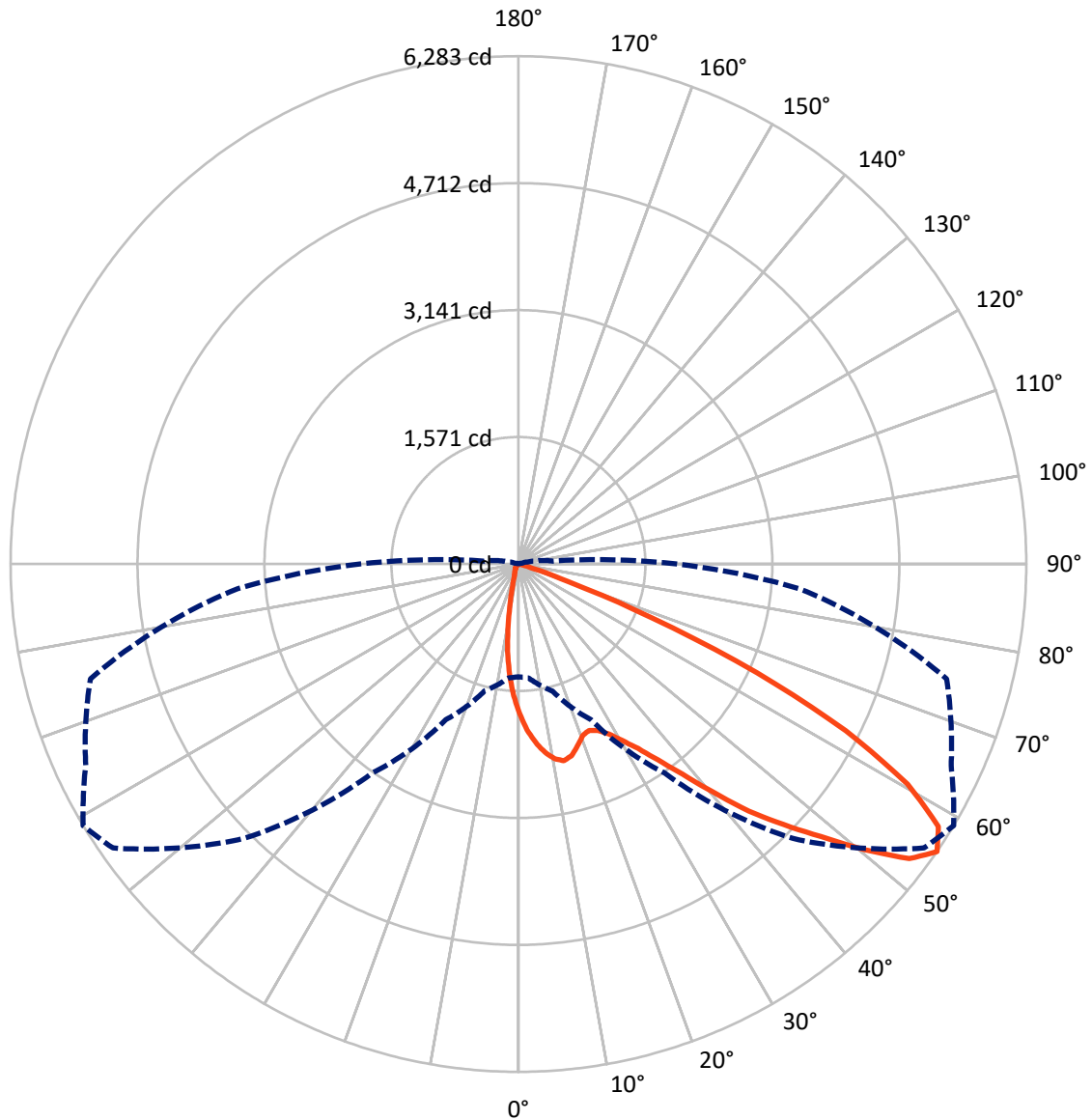


Based on 10 foot mounting height. Maximum calculated value = 23 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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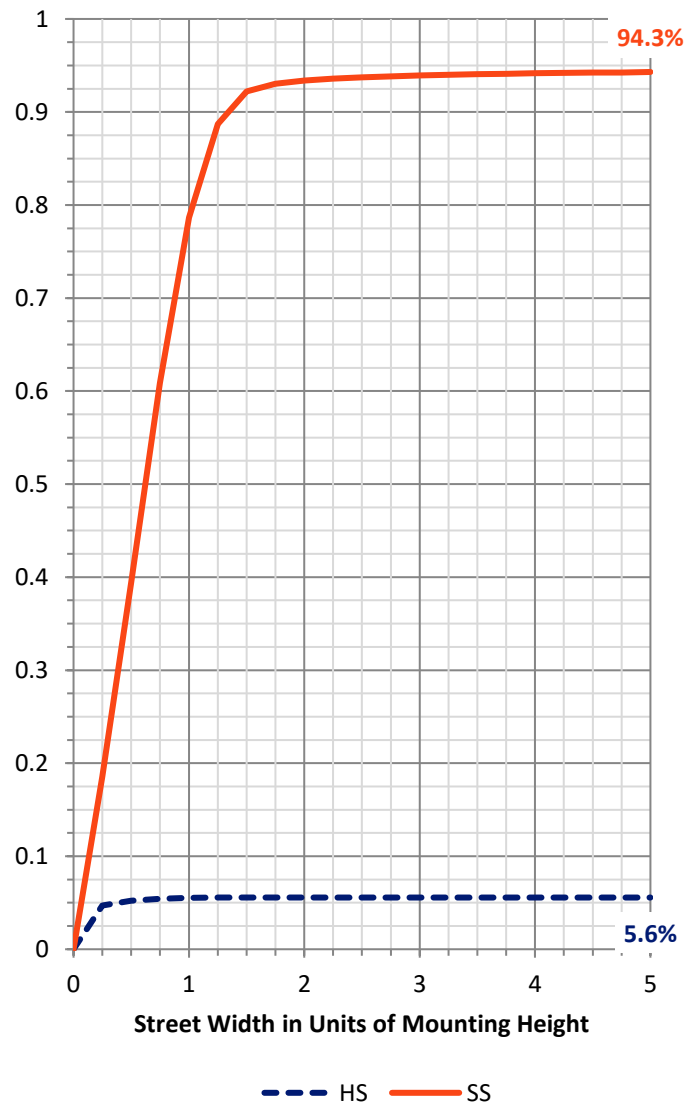
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	367.1	0.0	367.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	6205.9	0.0	6205.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	6573.0	0.0	6573.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	2.4
10°-20°	371.1	5.6
20°-30°	631.4	9.6
30°-40°	1085.9	16.5
40°-50°	1676.5	25.5
50°-60°	1685.4	25.6
60°-70°	864.3	13.1
70°-80°	93.7	1.4
80°-90°	9.8	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°	6573.0	100.0
0°-180°	6573.0	100.0



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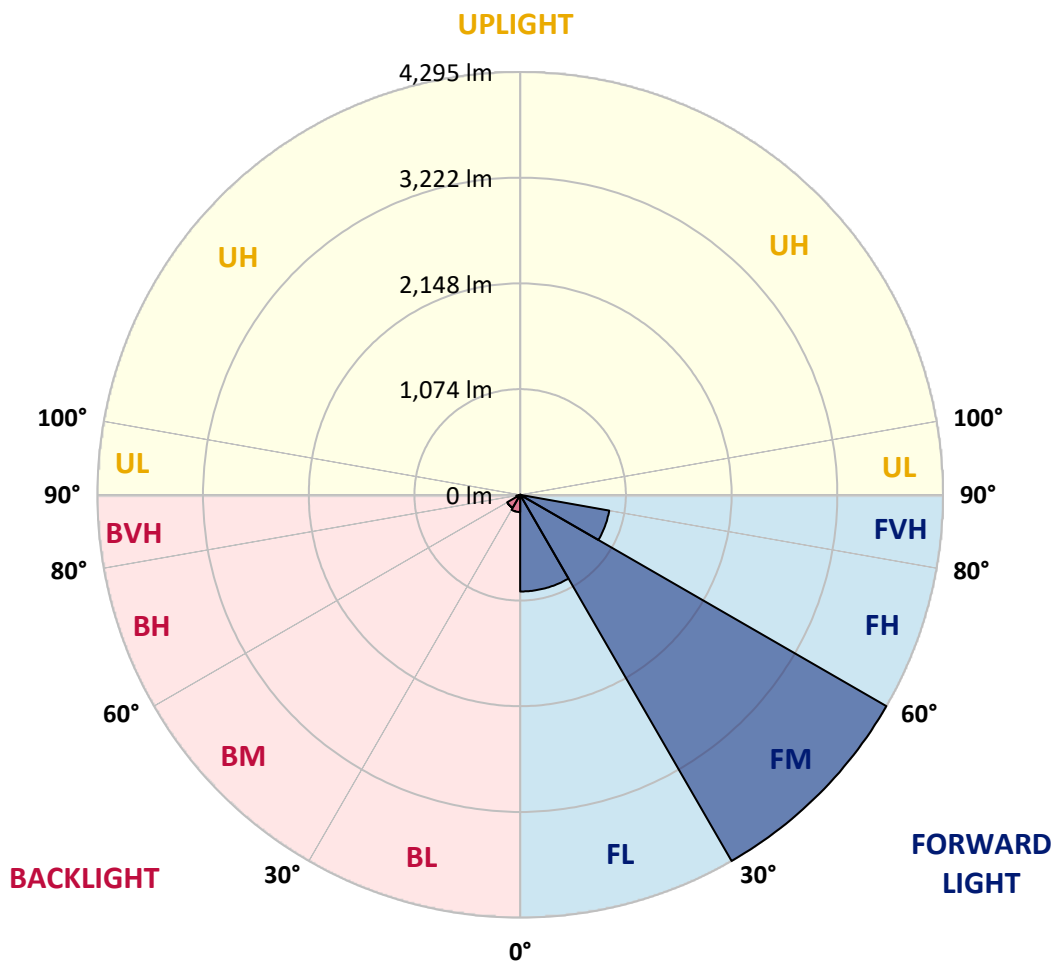
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	982.2	14.9			
FM	(30°-60°)	4295.4	65.3			
FH	(60°-80°)	918.6	14.0			G1/1800
FVH	(80°-90°)	9.6	0.1			G0/10
BL	(0°-30°)	175.2	2.7	B1/500		
BM	(30°-60°)	152.4	2.3	B0/220		
BH	(60°-80°)	39.3	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°	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3
2.5°	2189.3	2166.0	2159.0	2154.4	2133.1	2106.3	2069.8	2052.8	2017.8	1961.6	1892.6
5°	2389.8	2385.6	2370.1	2361.5	2338.6	2300.6	2242.4	2214.5	2159.0	2064.4	1940.7
7.5°	2302.2	2328.9	2350.3	2386.0	2431.0	2429.4	2380.5	2351.4	2289.4	2164.5	1994.2
10°	1963.5	1985.3	2020.2	2101.2	2266.5	2412.3	2469.7	2448.8	2399.2	2256.4	2045.8
12.5°	1897.2	1894.9	1901.1	1924.8	2011.3	2219.2	2454.6	2496.9	2486.8	2340.6	2094.7
15°	1932.5	1929.8	1929.0	1937.2	1958.1	2045.8	2341.0	2462.4	2540.3	2418.5	2136.2
17.5°	2031.4	2019.8	2013.6	2007.0	2000.8	2022.5	2204.4	2365.8	2548.5	2486.8	2170.7
20°	2200.9	2181.5	2158.7	2121.4	2086.5	2075.6	2147.0	2266.5	2519.4	2538.8	2193.2
22.5°	2413.9	2389.1	2349.5	2281.6	2210.6	2169.5	2175.3	2235.1	2476.0	2595.4	2203.7
25°	2653.2	2621.4	2568.7	2474.4	2370.1	2297.1	2259.1	2280.1	2456.2	2661.8	2215.7
27.5°	2909.6	2874.3	2805.3	2676.9	2558.6	2460.1	2382.5	2379.8	2489.9	2748.6	2235.1
30°	3163.7	3158.3	3068.3	2932.5	2775.8	2655.9	2544.2	2529.9	2584.2	2868.9	2273.5
32.5°	3502.7	3462.0	3351.8	3212.2	3031.4	2887.5	2755.2	2721.9	2728.9	3008.9	2332.8
35°	3930.2	3885.6	3730.4	3537.6	3335.5	3165.6	3019.4	2974.0	2957.0	3238.2	2432.9
37.5°	4206.4	4205.6	4108.2	3912.0	3695.1	3507.8	3348.7	3295.6	3261.1	3515.1	2588.1
40°	4213.7	4232.0	4244.8	4242.8	4088.5	3915.8	3774.6	3709.1	3628.8	3885.2	2788.6
42.5°	3987.6	4034.5	4147.4	4339.0	4430.6	4361.9	4242.8	4178.4	4059.0	4281.2	3033.0
45°	3681.9	3714.5	3912.0	4264.9	4616.0	4804.1	4713.4	4598.1	4440.7	4694.3	3252.1
47.5°	3545.0	3550.8	3678.4	4066.0	4630.0	5166.4	5221.5	5034.1	4787.4	5027.2	3423.6
50°	3135.8	3146.2	3322.4	3721.1	4466.3	5337.5	5732.0	5554.3	5165.6	5283.6	3486.0
52.5°	2363.5	2378.2	2601.6	3154.4	4016.3	5264.6	6097.4	6054.3	5579.9	5408.9	3489.5
55°	1394.5	1413.9	1627.2	2123.4	3159.0	4800.6	6124.5	6282.8	5906.9	5482.9	3484.1
57.5°	651.3	664.9	787.0	1093.9	1964.7	3794.0	5715.7	6126.1	6087.3	5522.1	3522.5
60°	346.0	349.9	379.4	473.6	887.9	2405.7	4917.8	5531.8	5922.8	5576.4	3569.4
62.5°	264.5	265.7	264.2	275.4	373.2	1067.9	3717.2	4547.7	5260.7	5535.7	3517.5
65°	229.2	231.2	220.3	217.6	239.3	380.9	2208.3	3241.7	4133.8	4986.0	3163.3
67.5°	205.6	206.4	193.2	181.9	185.8	206.0	871.2	1774.6	2736.2	3654.8	2292.9
70°	189.3	188.5	174.2	156.3	151.3	140.8	277.0	650.5	1307.6	1853.4	1066.3
72.5°	167.6	168.0	161.0	137.7	125.7	98.5	128.4	189.7	390.2	505.0	249.8
75°	148.6	146.6	138.1	123.4	103.6	64.8	63.6	84.6	120.2	119.5	53.9
77.5°	107.4	105.5	108.2	101.2	79.5	41.9	31.8	40.7	48.9	47.3	15.1
80°	78.7	77.6	69.8	84.2	70.2	28.7	19.8	21.7	25.2	21.3	4.7
82.5°	53.9	53.5	49.3	46.5	40.0	17.5	12.4	13.6	16.3	12.0	2.3
85°	8.5	9.7	35.7	28.3	23.7	7.8	8.5	9.3	10.9	6.6	0.8
87.5°	0.0	0.0	16.7	14.7	4.7	3.1	5.0	5.4	5.4	3.5	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°	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3	1850.3
2.5°	1857.3	1818.5	1746.7	1672.6	1604.0	1522.1	1465.9	1423.6	1374.7	1361.5	1390.2
5°	1870.1	1796.7	1642.4	1474.4	1316.5	1141.6	1007.8	901.9	806.1	773.5	802.9
7.5°	1890.2	1781.2	1529.5	1252.9	978.3	705.2	518.2	395.3	316.9	293.6	306.1
10°	1910.4	1758.7	1398.8	990.7	615.2	343.3	223.4	178.4	161.8	158.3	160.2
12.5°	1927.1	1728.5	1239.3	704.4	328.9	183.9	146.2	138.9	136.5	136.5	137.3
15°	1937.2	1682.7	1050.4	448.0	189.3	138.9	127.6	125.3	125.3	125.7	126.5
17.5°	1936.0	1624.5	843.7	271.1	141.6	123.0	116.4	114.4	114.0	114.8	115.2
20°	1921.6	1548.5	636.2	178.8	123.4	112.1	105.5	102.0	101.6	102.4	103.2
22.5°	1894.5	1454.6	455.0	137.7	111.3	101.6	93.5	90.4	90.4	91.2	91.9
25°	1861.5	1339.8	311.1	116.8	100.5	90.4	82.6	79.9	80.7	82.6	83.0
27.5°	1820.4	1210.6	211.4	100.1	87.3	79.1	73.3	71.4	73.3	76.0	76.8
30°	1785.1	1076.0	150.9	86.5	74.1	68.3	64.8	64.8	67.5	72.5	73.7
32.5°	1758.0	945.7	116.4	76.4	64.4	59.3	57.4	59.3	63.6	68.7	69.8
35°	1754.5	838.2	98.5	68.3	57.4	52.4	51.6	55.1	59.3	63.2	64.0
37.5°	1781.2	738.9	88.8	61.7	51.2	46.5	45.8	50.0	54.3	59.0	60.1
40°	1832.0	661.0	81.8	55.5	46.2	41.1	39.6	42.7	48.5	54.7	56.2
42.5°	1898.0	596.6	74.1	49.3	41.1	34.1	32.2	35.7	41.9	48.5	50.4
45°	1960.8	541.1	65.6	42.3	34.5	26.4	25.6	30.3	33.4	40.0	41.5
47.5°	1995.3	492.2	58.2	34.5	26.8	21.3	21.3	22.5	25.6	33.4	34.9
50°	1983.7	453.1	50.4	25.6	18.6	16.3	16.3	15.9	20.6	26.8	27.9
52.5°	1960.4	430.6	43.4	19.8	12.8	11.6	10.5	11.6	14.4	17.1	17.5
55°	1956.9	426.7	36.5	15.9	8.9	7.8	5.8	5.8	5.8	5.4	4.7
57.5°	1984.1	432.9	30.6	12.8	6.6	5.0	3.1	0.0	0.0	0.0	0.0
60°	2012.0	439.5	26.4	8.9	4.7	2.7	0.4	0.0	0.0	0.0	0.0
62.5°	1965.5	424.7	22.1	5.4	3.5	1.2	0.0	0.0	0.0	0.0	0.0
65°	1726.5	361.5	17.5	3.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1228.1	242.0	11.6	2.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	560.5	101.2	7.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	119.9	31.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.4	22.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.8	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	3.9	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)