

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: P200084

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200084
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: GPC-AF-02-LED-E1-AFL-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 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: 6853.8 lumens
Efficiency: N/A
Efficacy: 103.8 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

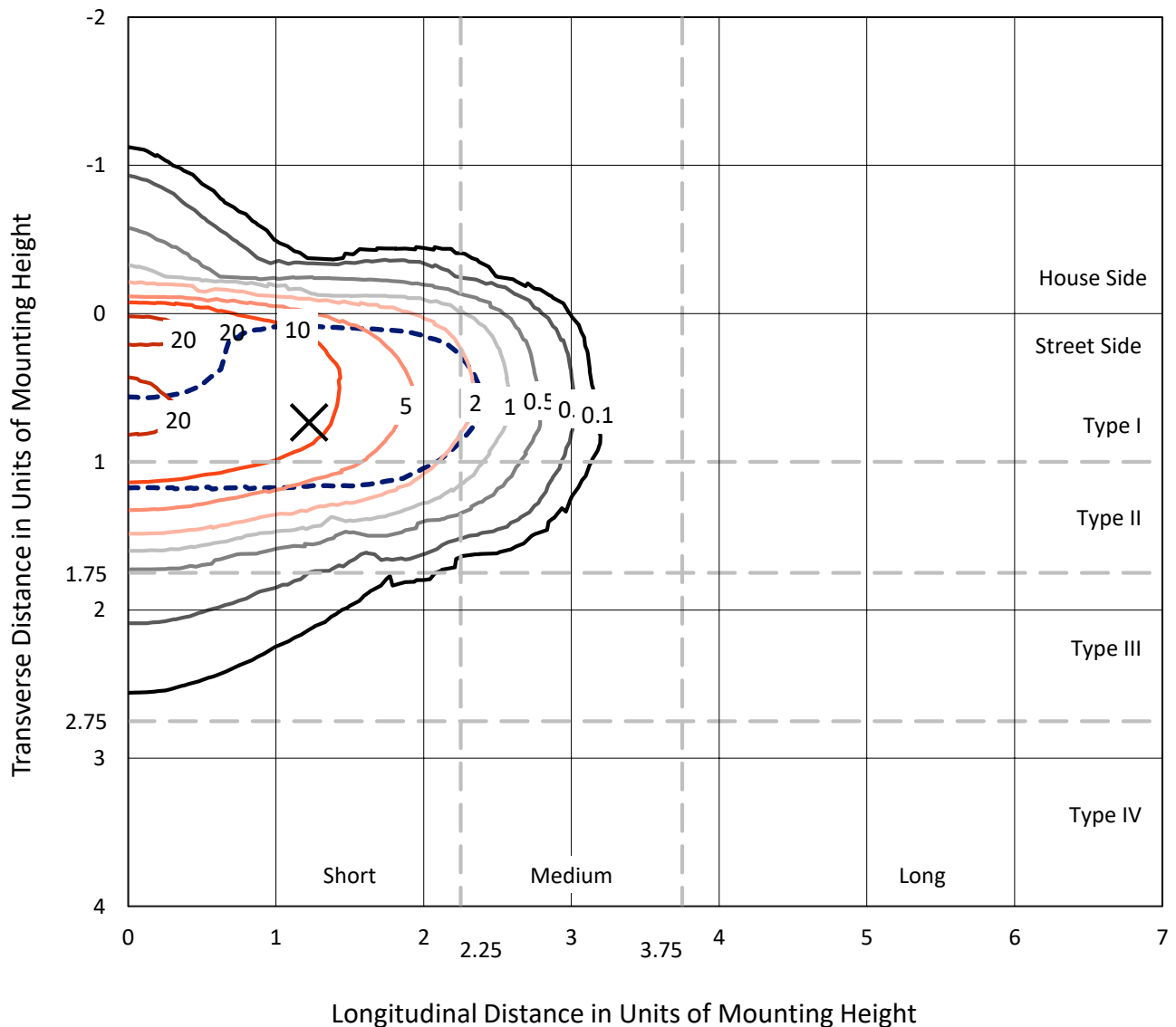
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

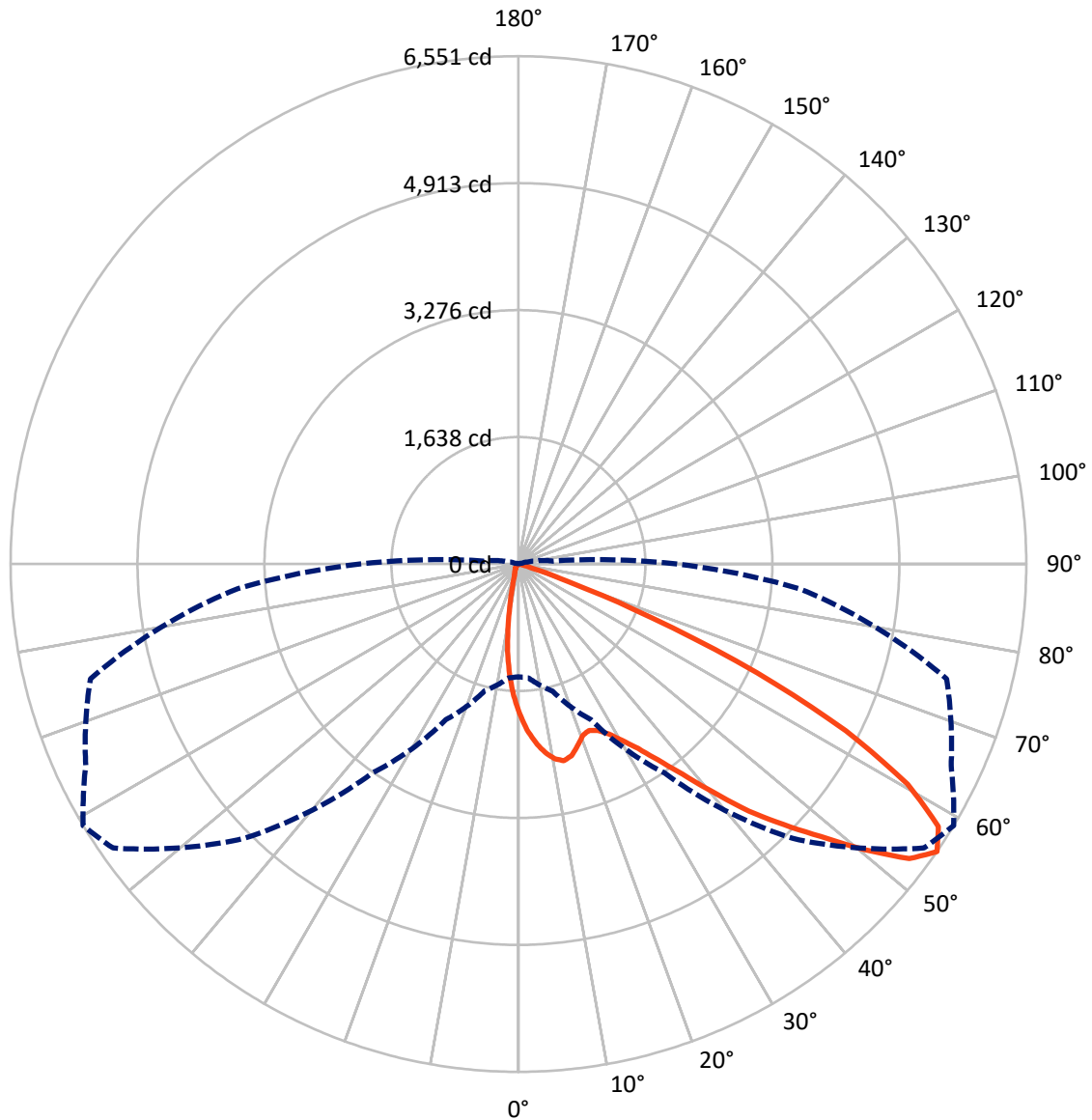
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24 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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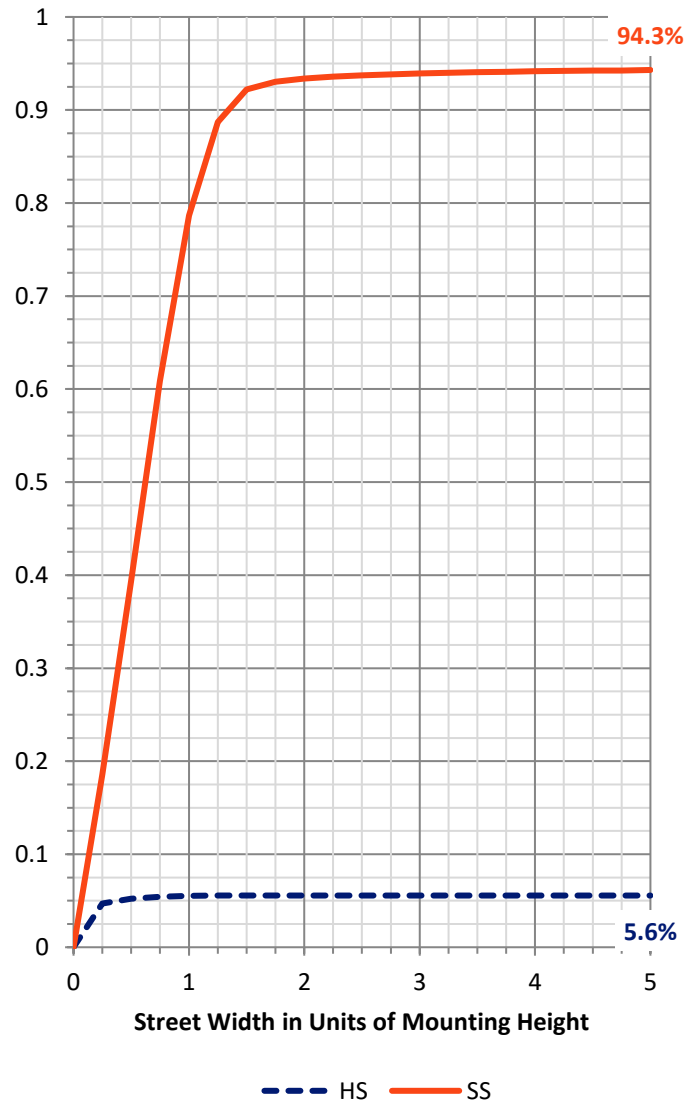
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	382.8	0.0	382.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	6471.0	0.0	6471.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	6853.8	0.0	6853.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	2.4
10°-20°	386.9	5.6
20°-30°	658.4	9.6
30°-40°	1132.3	16.5
40°-50°	1748.1	25.5
50°-60°	1757.4	25.6
60°-70°	901.2	13.1
70°-80°	97.7	1.4
80°-90°	10.2	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°	6853.8	100.0
0°-180°	6853.8	100.0



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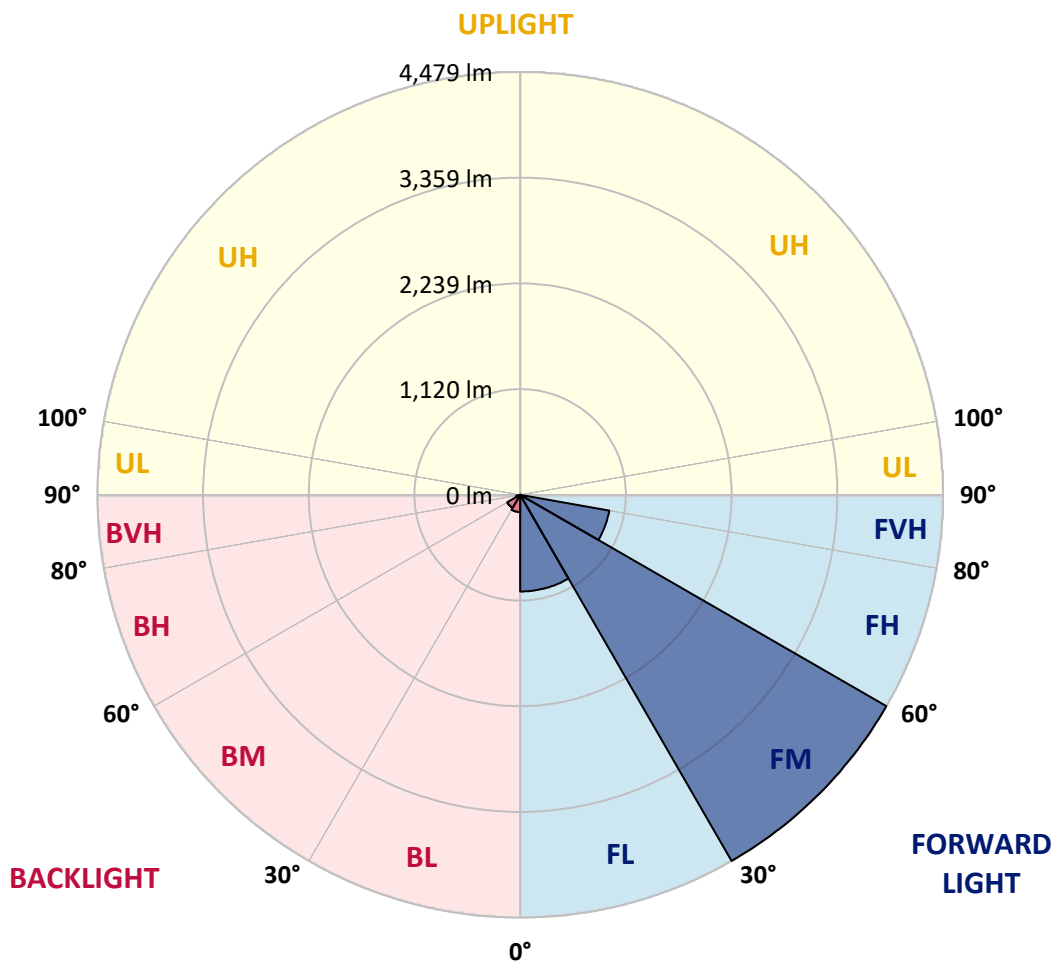
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.2	14.9			
FM (30°-60°)	4478.9	65.3			
FH (60°-80°)	957.9	14.0			G1/1800
FVH (80°-90°)	10.0	0.1			G1/100
BL (0°-30°)	182.7	2.7	B1/500		
BM (30°-60°)	158.9	2.3	B0/220		
BH (60°-80°)	41.0	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°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	2282.8	2258.6	2251.3	2246.4	2224.2	2196.3	2158.2	2140.4	2104.0	2045.4	1973.4
5°	2491.9	2487.5	2471.3	2462.4	2438.5	2398.9	2338.3	2309.1	2251.3	2152.6	2023.6
7.5°	2400.6	2428.4	2450.7	2487.9	2534.8	2533.1	2482.2	2451.9	2387.2	2256.9	2079.4
10°	2047.4	2070.0	2106.5	2191.0	2363.3	2515.4	2575.3	2553.4	2501.6	2352.8	2133.2
12.5°	1978.3	1975.8	1982.3	2006.9	2097.2	2313.9	2559.4	2603.5	2593.1	2440.6	2184.1
15°	2015.0	2012.2	2011.4	2019.9	2041.7	2133.2	2441.0	2567.6	2648.8	2521.9	2227.4
17.5°	2118.2	2106.1	2099.6	2092.8	2086.2	2108.9	2298.6	2466.8	2657.3	2593.1	2263.4
20°	2295.0	2274.7	2250.9	2212.0	2175.6	2164.3	2238.7	2363.3	2627.0	2647.2	2286.9
22.5°	2517.0	2491.1	2449.9	2379.1	2305.0	2262.2	2268.3	2330.6	2581.7	2706.3	2297.8
25°	2766.6	2733.4	2678.4	2580.1	2471.3	2395.2	2355.7	2377.4	2561.1	2775.5	2310.3
27.5°	3033.9	2997.1	2925.1	2791.2	2667.9	2565.2	2484.2	2481.4	2596.2	2866.1	2330.6
30°	3298.8	3293.2	3199.4	3057.8	2894.3	2769.4	2652.9	2638.0	2694.6	2991.4	2370.6
32.5°	3652.3	3609.9	3495.0	3349.4	3160.9	3010.9	2873.0	2838.2	2845.4	3137.5	2432.5
35°	4098.0	4051.6	3889.8	3688.8	3478.0	3300.9	3148.3	3101.1	3083.3	3376.5	2536.8
37.5°	4386.0	4385.3	4283.7	4079.0	3852.9	3657.6	3491.7	3436.4	3400.4	3665.3	2698.6
40°	4393.8	4412.7	4426.1	4424.1	4263.0	4083.1	3935.9	3867.6	3783.8	4051.2	2907.7
42.5°	4157.9	4206.9	4324.5	4524.4	4619.9	4548.2	4424.1	4357.0	4232.4	4464.2	3162.6
45°	3839.2	3873.2	4079.0	4447.1	4813.2	5009.3	4914.7	4794.6	4630.4	4894.8	3391.1
47.5°	3696.4	3702.5	3835.6	4239.6	4827.7	5387.1	5444.6	5249.2	4991.9	5241.9	3569.8
50°	3269.8	3280.6	3464.2	3880.1	4657.1	5565.5	5976.8	5791.5	5386.3	5509.3	3635.0
52.5°	2464.4	2479.8	2712.8	3289.1	4187.9	5489.5	6357.8	6312.9	5818.2	5639.9	3638.6
55°	1454.0	1474.3	1696.8	2214.1	3294.0	5005.7	6386.2	6551.2	6159.2	5717.2	3632.9
57.5°	679.1	693.3	820.7	1140.6	2048.7	3956.1	5959.8	6387.7	6347.3	5758.0	3673.0
60°	360.8	364.8	395.6	493.9	925.9	2508.5	5127.8	5768.1	6175.9	5814.7	3721.9
62.5°	275.9	277.0	275.5	287.1	389.1	1113.5	3876.1	4742.0	5485.4	5772.2	3667.7
65°	239.1	241.1	229.8	226.9	249.6	397.2	2302.7	3380.1	4310.4	5199.0	3298.4
67.5°	214.4	215.1	201.4	189.7	193.7	214.8	908.5	1850.4	2853.1	3810.9	2390.8
70°	197.4	196.6	181.6	163.0	157.7	146.8	288.8	678.3	1363.5	1932.6	1111.8
72.5°	174.7	175.1	167.9	143.6	131.0	102.7	133.9	197.7	406.9	526.6	260.4
75°	154.9	152.9	144.0	128.6	108.0	67.5	66.3	88.2	125.4	124.6	56.3
77.5°	112.0	110.0	112.8	105.6	83.0	43.7	33.1	42.5	50.9	49.3	15.8
80°	82.1	80.9	72.8	87.8	73.2	30.0	20.7	22.6	26.3	22.2	4.8
82.5°	56.3	55.9	51.4	48.5	41.6	18.2	13.0	14.1	17.0	12.6	2.5
85°	8.9	10.1	37.2	29.6	24.7	8.1	8.9	9.7	11.4	6.9	0.8
87.5°	0.0	0.0	17.4	15.3	4.8	3.3	5.2	5.6	5.6	3.7	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°	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3	1929.3
2.5°	1936.5	1896.1	1821.4	1744.0	1672.5	1587.1	1528.5	1484.4	1433.5	1419.7	1449.6
5°	1949.9	1873.5	1712.5	1537.4	1372.8	1190.3	1050.8	940.4	840.5	806.5	837.3
7.5°	1971.0	1857.3	1594.8	1306.4	1020.1	735.3	540.3	412.1	330.4	306.2	319.2
10°	1992.0	1833.8	1458.5	1033.0	641.5	357.9	232.9	186.1	168.7	165.0	167.0
12.5°	2009.4	1802.3	1292.3	734.5	343.0	191.7	152.5	144.8	142.4	142.4	143.2
15°	2019.9	1754.6	1095.3	467.2	197.4	144.8	133.1	130.6	130.6	131.0	131.9
17.5°	2018.7	1693.9	879.7	282.7	147.6	128.2	121.3	119.3	118.9	119.7	120.1
20°	2003.8	1614.6	663.3	186.5	128.6	116.9	110.0	106.4	106.0	106.8	107.6
22.5°	1975.4	1516.7	474.4	143.6	116.1	106.0	97.5	94.2	94.2	95.0	95.9
25°	1941.0	1397.0	324.4	121.7	104.8	94.2	86.1	83.4	84.1	86.1	86.5
27.5°	1898.2	1262.3	220.4	104.3	91.0	82.6	76.4	74.5	76.4	79.3	80.1
30°	1861.4	1122.0	157.3	90.2	77.2	71.2	67.5	67.5	70.4	75.6	76.8
32.5°	1833.0	986.1	121.3	79.7	67.1	61.9	59.8	61.9	66.3	71.6	72.8
35°	1829.4	874.0	102.7	71.2	59.8	54.6	53.8	57.4	61.9	65.9	66.7
37.5°	1857.3	770.5	92.6	64.3	53.4	48.5	47.8	52.2	56.7	61.5	62.7
40°	1910.3	689.3	85.3	57.8	48.2	42.9	41.2	44.5	50.5	57.1	58.6
42.5°	1979.1	622.1	77.2	51.4	42.9	35.6	33.6	37.2	43.7	50.5	52.6
45°	2044.6	564.3	68.3	44.1	36.0	27.5	26.7	31.5	34.8	41.6	43.3
47.5°	2080.6	513.3	60.7	36.0	27.9	22.2	22.2	23.4	26.7	34.8	36.4
50°	2068.4	472.4	52.6	26.7	19.4	17.0	17.0	16.6	21.5	27.9	29.2
52.5°	2044.2	449.0	45.3	20.7	13.3	12.2	10.9	12.2	14.9	17.8	18.2
55°	2040.6	444.9	38.1	16.6	9.3	8.1	6.0	6.0	6.0	5.6	4.8
57.5°	2068.8	451.4	31.9	13.3	6.9	5.2	3.3	0.0	0.0	0.0	0.0
60°	2098.0	458.3	27.5	9.3	4.8	2.9	0.4	0.0	0.0	0.0	0.0
62.5°	2049.5	442.9	23.0	5.6	3.7	1.2	0.0	0.0	0.0	0.0	0.0
65°	1800.3	377.0	18.2	4.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1280.5	252.4	12.2	2.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	584.4	105.6	7.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	125.0	32.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.5	23.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.1	37.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.8	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.8	4.1	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)