

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: P200246

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200246  
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-7050-800-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 5000K, 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: 8216 lumens  
Efficiency: N/A  
Efficacy: 95.5 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): 86  
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

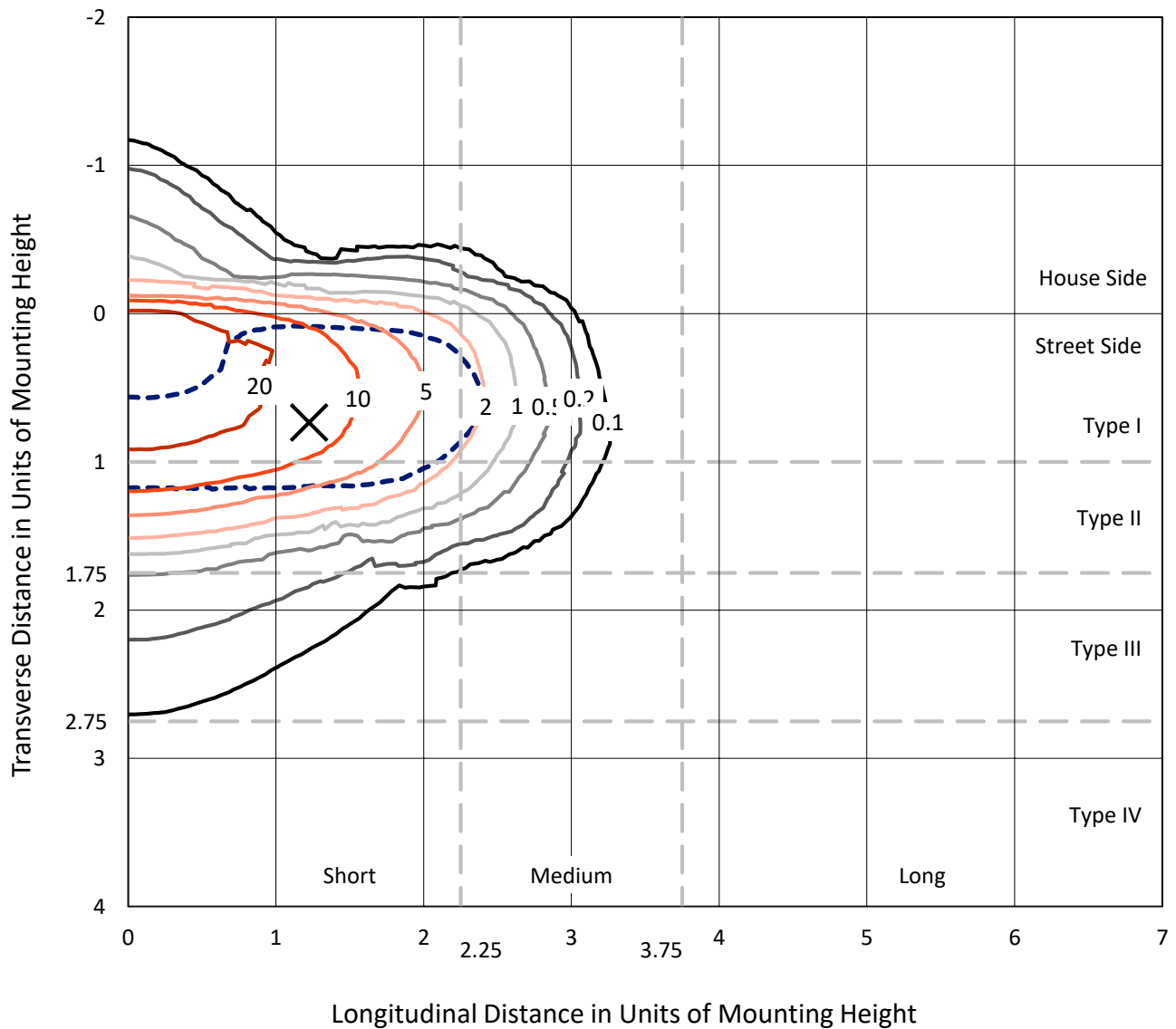


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

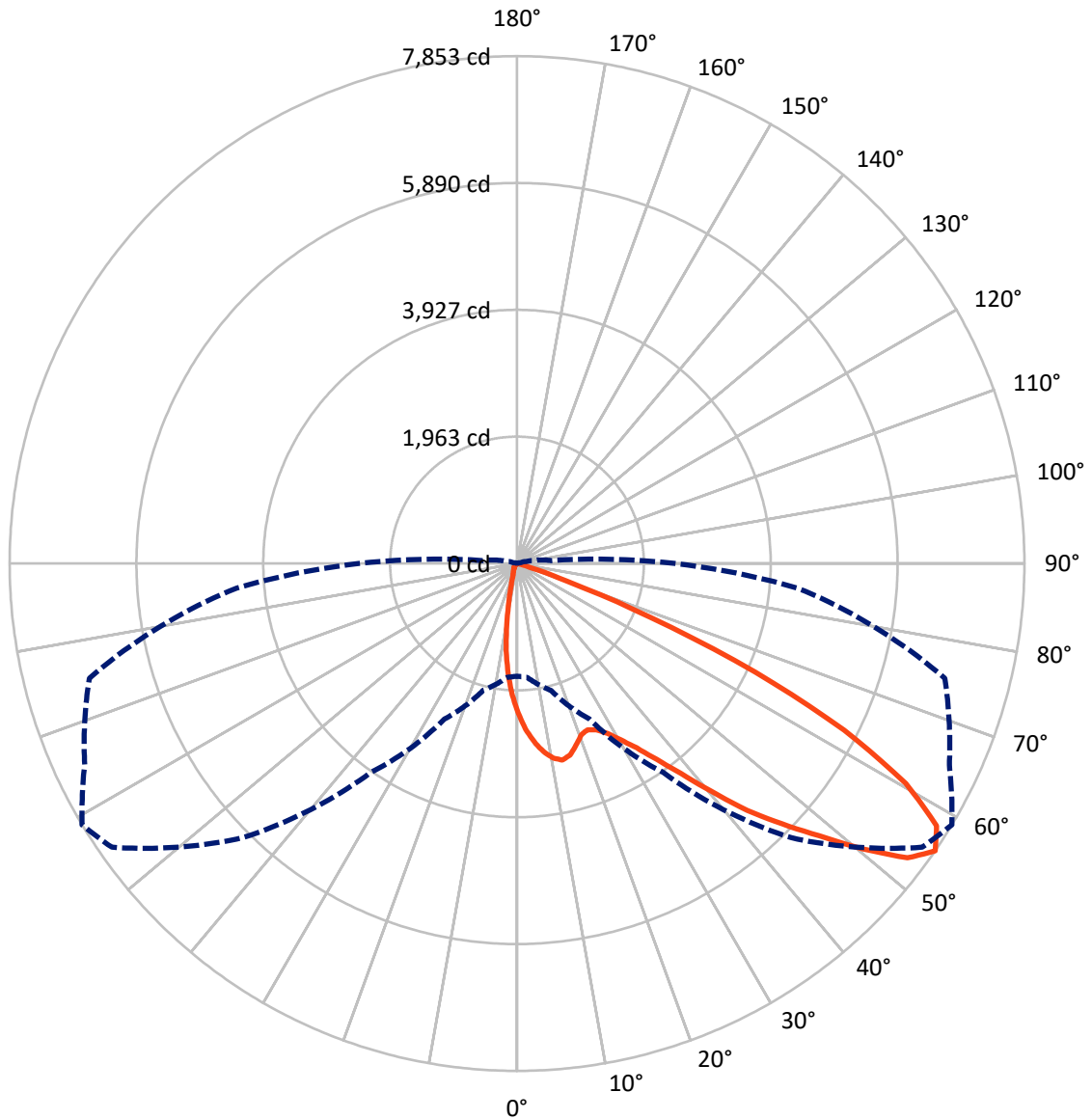


Based on 10 foot mounting height. Maximum calculated value = 28.8 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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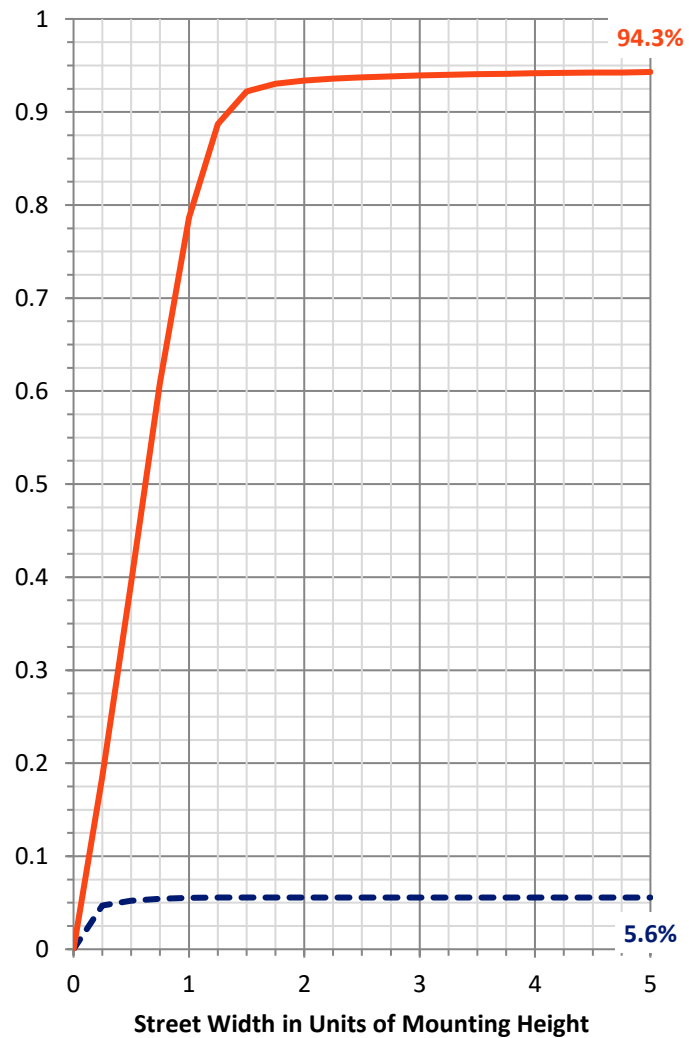
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	458.9	0.0	458.9
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	7757.1	0.0	7757.1
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	8216.0	0.0	8216.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.7	2.4
10°-20°	463.8	5.6
20°-30°	789.2	9.6
30°-40°	1357.3	16.5
40°-50°	2095.6	25.5
50°-60°	2106.7	25.6
60°-70°	1080.3	13.1
70°-80°	117.1	1.4
80°-90°	12.2	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°	8216.0	100.0
0°-180°	8216.0	100.0



--- HS    — SS

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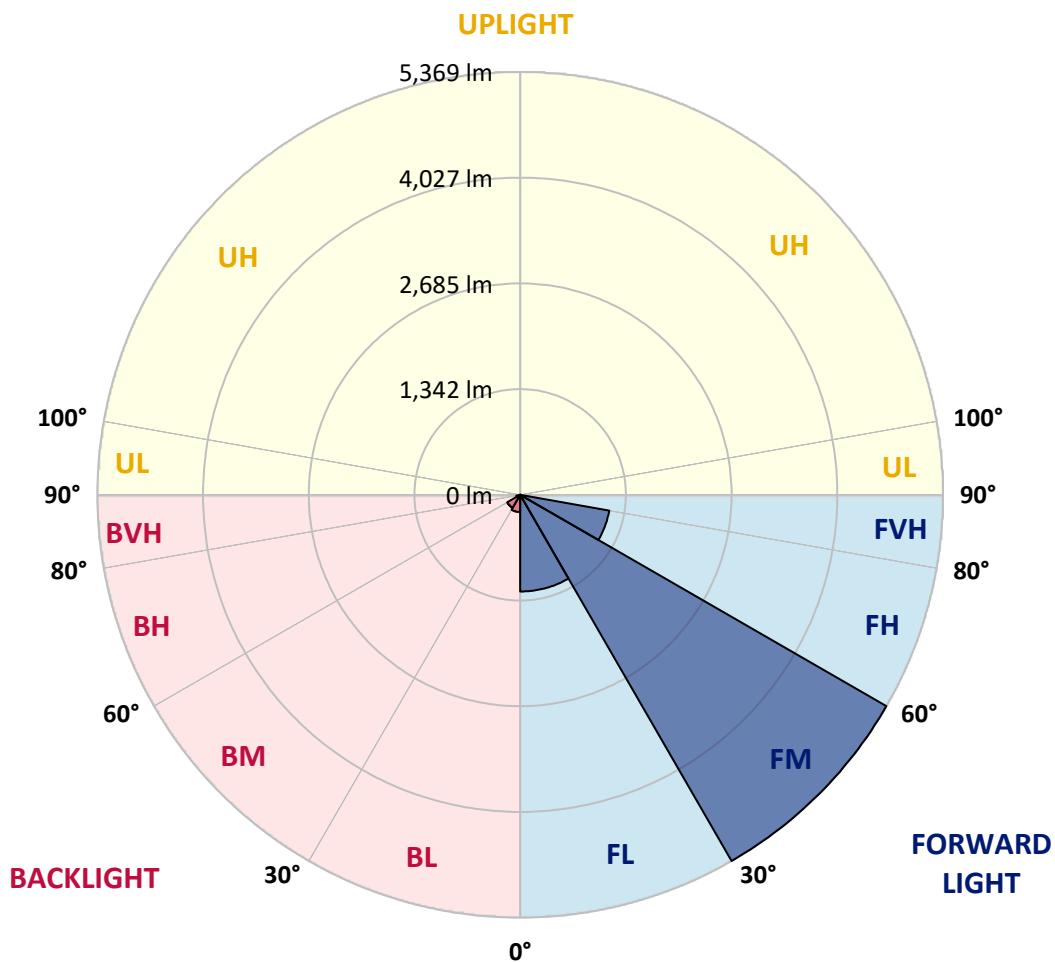
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1227.7	14.9			
FM	(30°-60°)	5369.1	65.3			
FH	(60°-80°)	1148.2	14.0			G1/1800
FVH	(80°-90°)	12.0	0.1			G1/100
BL	(0°-30°)	219.0	2.7	B1/500		
BM	(30°-60°)	190.5	2.3	B0/220		
BH	(60°-80°)	49.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8
2.5°	2736.5	2707.4	2698.7	2692.9	2666.2	2632.8	2587.2	2565.9	2522.2	2451.9	2365.6
5°	2987.2	2981.9	2962.5	2951.8	2923.2	2875.7	2803.0	2768.1	2698.7	2580.4	2425.7
7.5°	2877.6	2911.1	2937.8	2982.4	3038.6	3036.7	2975.6	2939.2	2861.6	2705.5	2492.7
10°	2454.4	2481.5	2525.1	2626.5	2833.0	3015.3	3087.1	3060.9	2998.8	2820.4	2557.1
12.5°	2371.4	2368.5	2376.3	2405.9	2514.0	2773.9	3068.2	3121.0	3108.4	2925.6	2618.2
15°	2415.6	2412.2	2411.2	2421.4	2447.6	2557.1	2926.1	3077.9	3175.3	3023.1	2670.1
17.5°	2539.2	2524.7	2516.9	2508.7	2500.9	2528.1	2755.5	2957.2	3185.5	3108.4	2713.3
20°	2751.1	2726.8	2698.2	2651.7	2608.1	2594.5	2683.7	2833.0	3149.2	3173.4	2741.4
22.5°	3017.3	2986.2	2936.8	2851.9	2763.2	2711.8	2719.1	2793.8	3094.9	3244.2	2754.5
25°	3316.4	3276.7	3210.7	3092.9	2962.5	2871.3	2823.8	2850.0	3070.1	3327.1	2769.5
27.5°	3636.9	3592.8	3506.5	3346.0	3198.1	3075.0	2978.0	2974.6	3112.3	3435.7	2793.8
30°	3954.5	3947.7	3835.2	3665.5	3469.6	3319.8	3180.2	3162.2	3230.1	3586.0	2841.8
32.5°	4378.3	4327.4	4189.7	4015.1	3789.2	3609.3	3443.9	3402.3	3411.0	3761.0	2915.9
35°	4912.6	4856.8	4662.9	4421.9	4169.3	3956.9	3774.1	3717.4	3696.1	4047.6	3041.0
37.5°	5257.8	5256.8	5135.1	4889.8	4618.8	4384.6	4185.8	4119.4	4076.2	4393.8	3235.0
40°	5267.0	5289.8	5305.8	5303.4	5110.4	4894.6	4718.2	4636.2	4535.8	4856.3	3485.6
42.5°	4984.3	5043.0	5184.1	5423.6	5538.1	5452.2	5303.4	5222.9	5073.6	5351.4	3791.1
45°	4602.3	4643.0	4889.8	5331.0	5769.8	6005.0	5891.5	5747.5	5550.7	5867.8	4065.1
47.5°	4431.1	4438.4	4597.9	5082.3	5787.3	6457.8	6526.7	6292.5	5984.1	6283.8	4279.4
50°	3919.6	3932.7	4152.8	4651.2	5582.7	6671.7	7164.8	6942.7	6456.9	6604.3	4357.4
52.5°	2954.2	2972.7	3251.9	3942.9	5020.2	6580.5	7621.5	7567.7	6974.7	6760.9	4361.8
55°	1743.1	1767.3	2034.0	2654.1	3948.7	6000.6	7655.4	7853.3	7383.4	6853.5	4355.0
57.5°	814.1	831.0	983.8	1367.3	2455.8	4742.4	7144.4	7657.4	7608.9	6902.4	4403.0
60°	432.5	437.3	474.2	592.0	1109.8	3007.1	6147.0	6914.6	7403.3	6970.3	4461.7
62.5°	330.7	332.1	330.2	344.2	466.4	1334.8	4646.4	5684.5	6575.6	6919.4	4396.7
65°	286.6	289.0	275.4	272.0	299.2	476.1	2760.3	4052.0	5167.1	6232.4	3954.0
67.5°	257.0	257.9	241.5	227.4	232.2	257.5	1089.0	2218.2	3420.2	4568.3	2866.0
70°	236.6	235.6	217.7	195.4	189.1	176.0	346.2	813.1	1634.5	2316.7	1332.9
72.5°	209.5	209.9	201.2	172.1	157.1	123.2	160.5	237.1	487.8	631.3	312.2
75°	185.7	183.3	172.6	154.2	129.5	81.0	79.5	105.7	150.3	149.3	67.4
77.5°	134.3	131.9	135.3	126.5	99.4	52.4	39.8	50.9	61.1	59.2	18.9
80°	98.4	97.0	87.3	105.2	87.8	35.9	24.7	27.2	31.5	26.7	5.8
82.5°	67.4	66.9	61.6	58.2	49.9	21.8	15.5	17.0	20.4	15.0	2.9
85°	10.7	12.1	44.6	35.4	29.6	9.7	10.7	11.6	13.6	8.2	1.0
87.5°	0.0	0.0	20.8	18.4	5.8	3.9	6.3	6.8	6.8	4.4	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°	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8	2312.8
2.5°	2321.5	2273.0	2183.3	2090.7	2004.9	1902.6	1832.3	1779.4	1718.3	1701.9	1737.7
5°	2337.5	2245.9	2052.9	1842.9	1645.6	1426.9	1259.7	1127.3	1007.5	966.8	1003.7
7.5°	2362.7	2226.5	1911.8	1566.1	1222.8	881.5	647.8	494.1	396.1	367.0	382.6
10°	2387.9	2198.3	1748.4	1238.3	769.0	429.1	279.3	223.0	202.2	197.8	200.2
12.5°	2408.8	2160.5	1549.1	880.5	411.2	229.8	182.8	173.6	170.7	170.7	171.6
15°	2421.4	2103.3	1313.0	560.0	236.6	173.6	159.5	156.6	156.6	157.1	158.1
17.5°	2419.9	2030.6	1054.6	338.9	177.0	153.7	145.5	143.0	142.5	143.5	144.0
20°	2402.0	1935.6	795.2	223.5	154.2	140.1	131.9	127.5	127.0	128.0	129.0
22.5°	2368.0	1818.2	568.7	172.1	139.2	127.0	116.9	113.0	113.0	113.9	114.9
25°	2326.8	1674.7	388.9	145.9	125.6	113.0	103.3	99.9	100.9	103.3	103.8
27.5°	2275.4	1513.2	264.2	125.1	109.1	98.9	91.6	89.2	91.6	95.0	96.0
30°	2231.3	1345.0	188.6	108.1	92.6	85.3	81.0	81.0	84.4	90.7	92.1
32.5°	2197.4	1182.1	145.5	95.5	80.5	74.2	71.8	74.2	79.5	85.8	87.3
35°	2193.0	1047.8	123.2	85.3	71.8	65.5	64.5	68.8	74.2	79.0	80.0
37.5°	2226.5	923.7	111.0	77.1	64.0	58.2	57.2	62.5	67.9	73.7	75.2
40°	2290.0	826.2	102.3	69.3	57.7	51.4	49.5	53.3	60.6	68.4	70.3
42.5°	2372.4	745.7	92.6	61.6	51.4	42.7	40.2	44.6	52.4	60.6	63.0
45°	2451.0	676.4	81.9	52.8	43.2	33.0	32.0	37.8	41.7	49.9	51.9
47.5°	2494.1	615.3	72.7	43.2	33.5	26.7	26.7	28.1	32.0	41.7	43.6
50°	2479.6	566.3	63.0	32.0	23.3	20.4	20.4	19.9	25.7	33.5	34.9
52.5°	2450.5	538.2	54.3	24.7	16.0	14.5	13.1	14.5	17.9	21.3	21.8
55°	2446.1	533.3	45.6	19.9	11.2	9.7	7.3	7.3	7.3	6.8	5.8
57.5°	2480.1	541.1	38.3	16.0	8.2	6.3	3.9	0.0	0.0	0.0	0.0
60°	2515.0	549.3	33.0	11.2	5.8	3.4	0.5	0.0	0.0	0.0	0.0
62.5°	2456.8	530.9	27.6	6.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0
65°	2158.1	451.9	21.8	4.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1535.1	302.6	14.5	2.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	700.6	126.5	9.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	149.8	39.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	30.5	28.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.7	45.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.8	32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	4.8	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)