

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: STREETWORKS

Report Number: P200568

Luminaire Tested: **GAP-AF-02-LED-U-AFL-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200568
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: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-AFL-8030-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 8298 lumens
Efficiency: N/A
Efficacy: 73.4 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

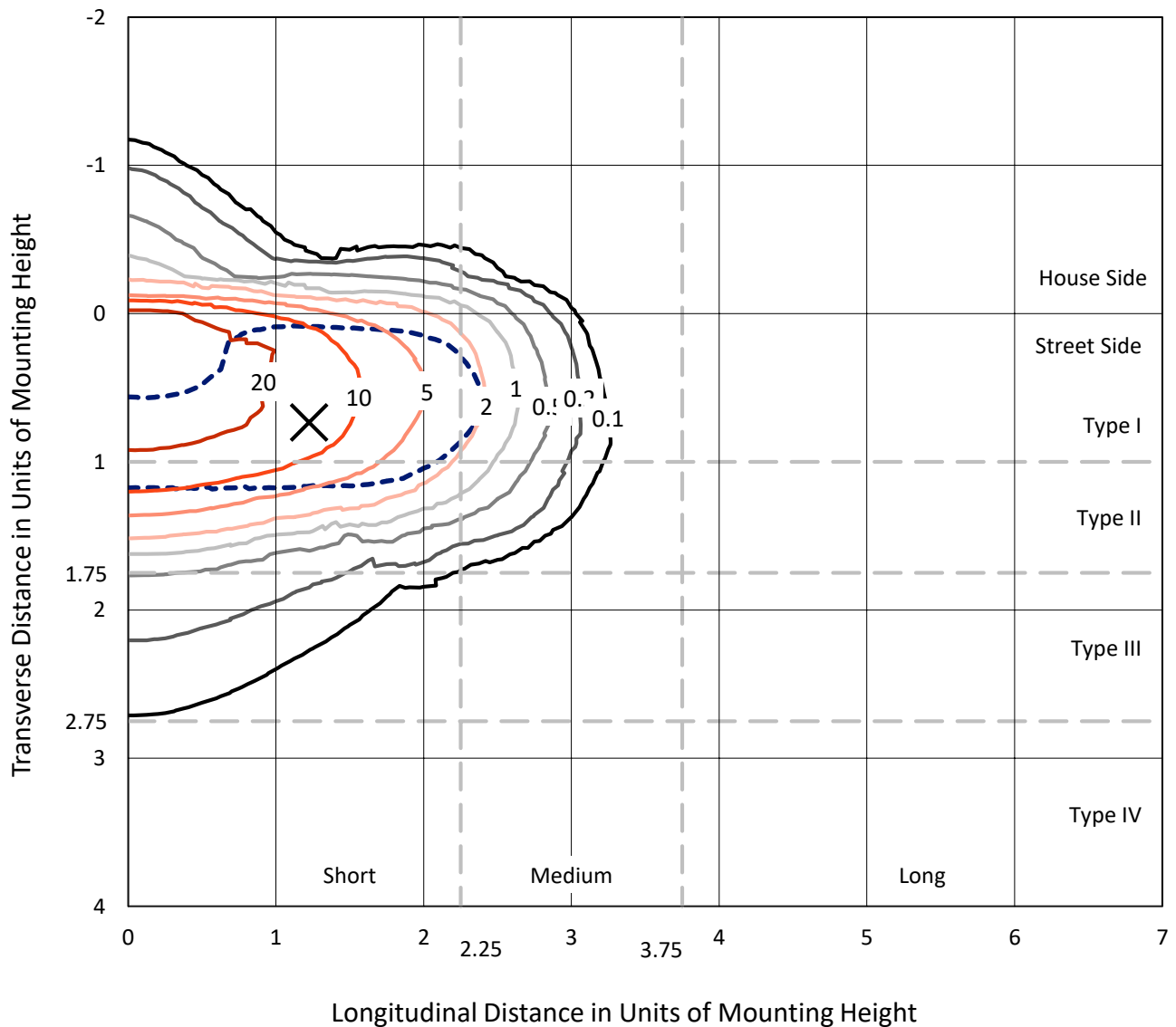
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

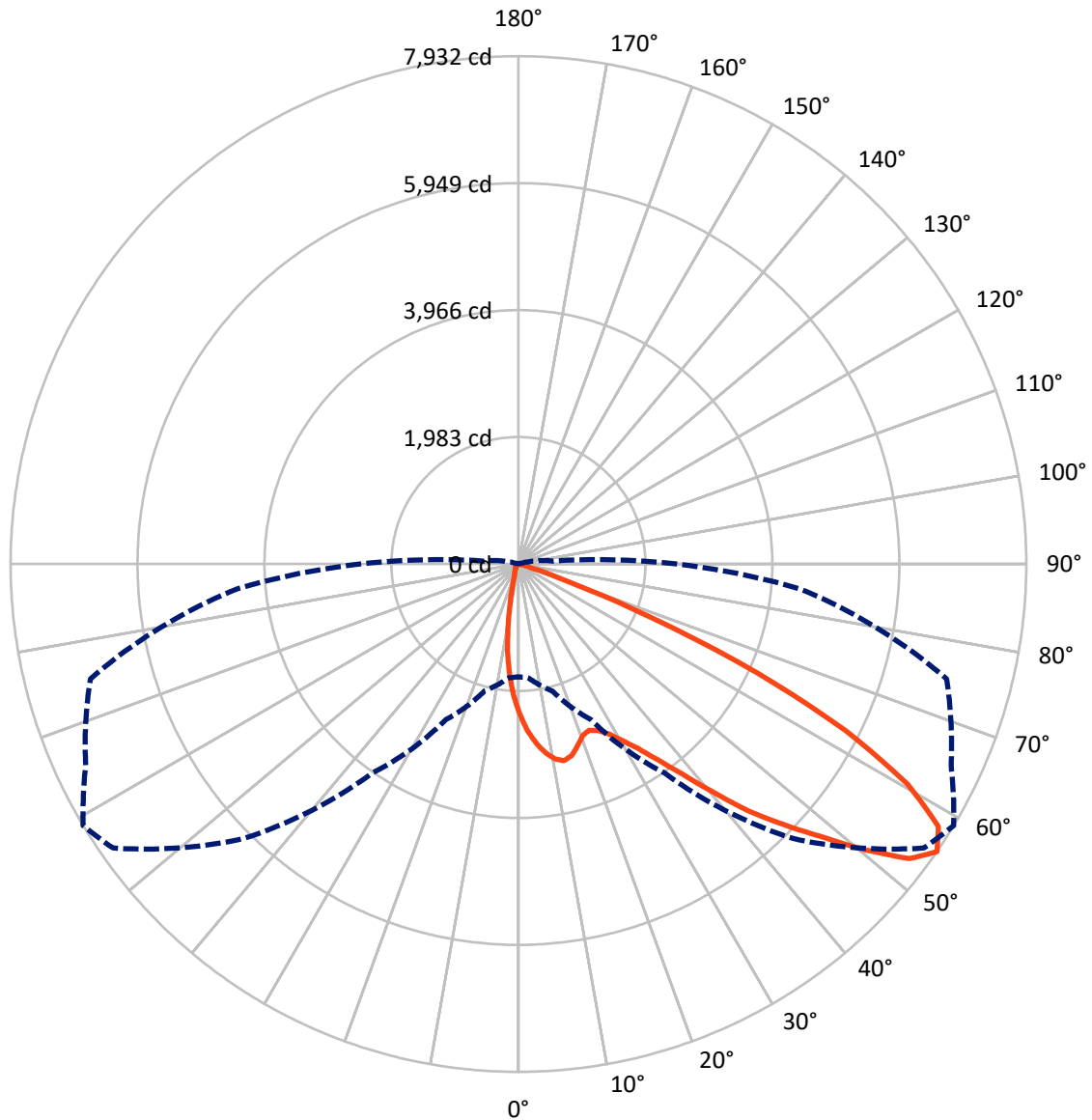
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.1 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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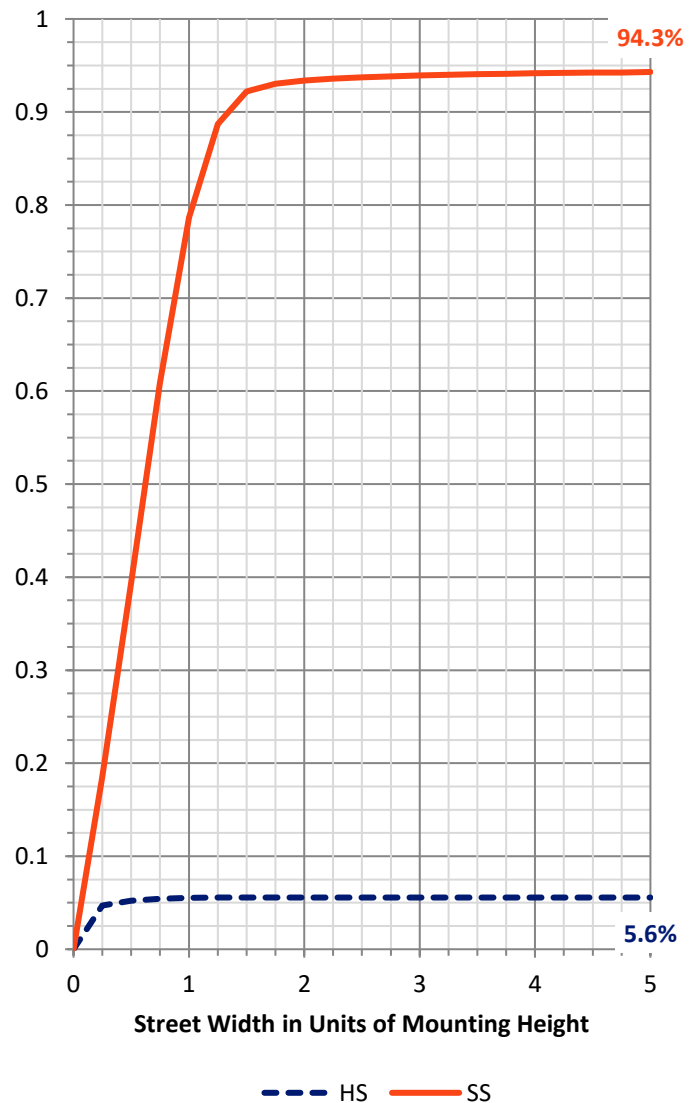
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	463.5	0.0	463.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	7834.5	0.0	7834.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	8298.0	0.0	8298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.7	2.4
10°-20°	468.4	5.6
20°-30°	797.1	9.6
30°-40°	1370.9	16.5
40°-50°	2116.5	25.5
50°-60°	2127.7	25.6
60°-70°	1091.1	13.1
70°-80°	118.2	1.4
80°-90°	12.4	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°	8298.0	100.0
0°-180°	8298.0	100.0

Coefficient of Utilization



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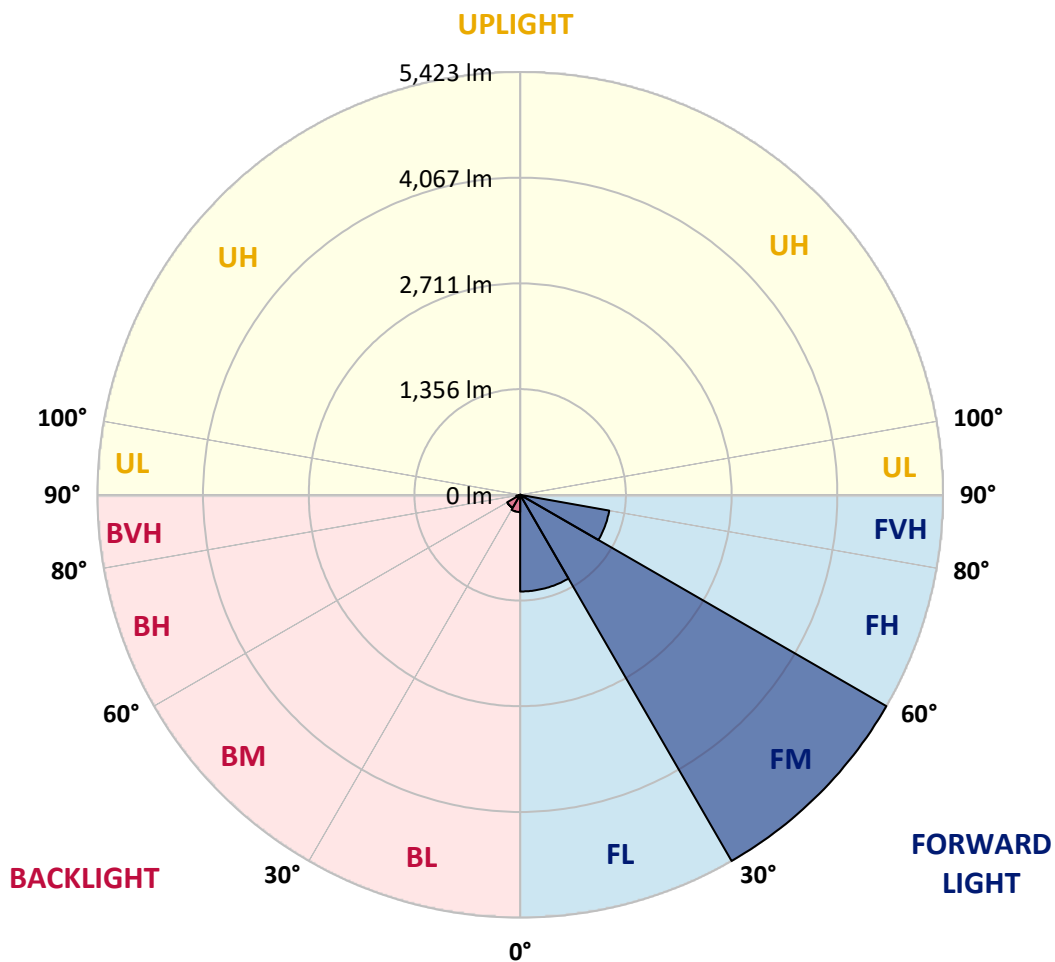
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1240.0	14.9			
FM	(30°-60°)	5422.7	65.3			
FH	(60°-80°)	1159.7	14.0			G1/1800
FVH	(80°-90°)	12.1	0.1			G1/100
BL	(0°-30°)	221.2	2.7	B1/500		
BM	(30°-60°)	192.4	2.3	B0/220		
BH	(60°-80°)	49.7	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°	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9
2.5°	2763.9	2734.5	2725.7	2719.8	2692.8	2659.1	2613.0	2591.5	2547.4	2476.4	2389.2
5°	3017.0	3011.6	2992.1	2981.3	2952.4	2904.4	2830.9	2795.7	2725.7	2606.2	2450.0
7.5°	2906.4	2940.1	2967.1	3012.1	3068.9	3067.0	3005.3	2968.5	2890.2	2732.5	2517.5
10°	2478.8	2506.3	2550.3	2652.7	2861.3	3045.4	3117.9	3091.5	3028.8	2848.6	2582.7
12.5°	2395.1	2392.2	2400.0	2429.9	2539.1	2801.6	3098.8	3152.2	3139.5	2954.8	2644.4
15°	2439.7	2436.2	2435.3	2445.5	2472.0	2582.7	2955.3	3108.6	3207.0	3053.3	2696.8
17.5°	2564.5	2549.9	2542.0	2533.7	2525.9	2553.3	2783.0	2986.7	3217.3	3139.5	2740.3
20°	2778.5	2754.1	2725.2	2678.2	2634.1	2620.4	2710.5	2861.3	3180.6	3205.1	2768.7
22.5°	3047.4	3016.0	2966.1	2880.4	2790.8	2738.9	2746.2	2821.6	3125.7	3276.6	2782.0
25°	3349.5	3309.4	3242.8	3123.8	2992.1	2900.0	2852.0	2878.4	3100.8	3360.3	2797.2
27.5°	3673.2	3628.7	3541.5	3379.4	3230.0	3105.7	3007.7	3004.3	3143.4	3470.0	2821.6
30°	3994.0	3987.1	3873.5	3702.1	3504.3	3353.0	3211.9	3193.8	3262.4	3621.8	2870.1
32.5°	4422.0	4370.6	4231.5	4055.2	3827.0	3645.3	3478.3	3436.2	3445.0	3798.6	2945.0
35°	4961.6	4905.3	4709.4	4466.0	4210.9	3996.4	3811.8	3754.5	3733.0	4088.0	3071.4
37.5°	5310.3	5309.3	5186.4	4938.6	4664.9	4428.3	4227.6	4160.5	4116.9	4437.6	3267.3
40°	5319.6	5342.6	5358.8	5356.3	5161.4	4943.5	4765.2	4682.5	4581.1	4904.8	3520.4
42.5°	5034.1	5093.3	5235.8	5477.8	5593.3	5506.6	5356.3	5275.0	5124.2	5404.8	3828.9
45°	4648.2	4689.3	4938.6	5384.2	5827.4	6064.9	5950.3	5804.9	5606.1	5926.3	4105.6
47.5°	4475.3	4482.7	4643.8	5133.0	5845.0	6522.3	6591.8	6355.3	6043.8	6346.5	4322.1
50°	3958.7	3971.9	4194.3	4697.7	5638.4	6738.2	7236.3	7012.0	6521.3	6670.2	4400.9
52.5°	2983.7	3002.3	3284.4	3982.2	5070.3	6646.2	7697.6	7643.2	7044.3	6828.3	4405.3
55°	1760.5	1784.9	2054.3	2680.6	3988.1	6060.5	7731.8	7931.6	7457.1	6921.9	4398.5
57.5°	822.2	839.3	993.6	1380.9	2480.3	4789.7	7215.7	7733.8	7684.8	6971.3	4446.9
60°	436.8	441.7	478.9	597.9	1120.9	3037.1	6208.4	6983.6	7477.2	7039.9	4506.2
62.5°	334.0	335.4	333.5	347.7	471.1	1348.1	4692.8	5741.2	6641.3	6988.5	4440.6
65°	289.4	291.9	278.1	274.7	302.1	480.9	2787.8	4092.4	5218.7	6294.6	3993.5
67.5°	259.5	260.5	243.9	229.7	234.6	260.0	1099.9	2240.4	3454.3	4613.9	2894.6
70°	239.0	238.0	219.9	197.3	191.0	177.8	349.6	821.2	1650.8	2339.8	1346.2
72.5°	211.5	212.0	203.2	173.8	158.7	124.4	162.1	239.5	492.6	637.6	315.4
75°	187.6	185.1	174.3	155.7	130.7	81.8	80.3	106.8	151.8	150.8	68.1
77.5°	135.6	133.2	136.6	127.8	100.4	52.9	40.2	51.4	61.7	59.7	19.1
80°	99.4	97.9	88.1	106.3	88.6	36.2	25.0	27.4	31.8	26.9	5.9
82.5°	68.1	67.6	62.2	58.8	50.4	22.0	15.7	17.1	20.6	15.2	2.9
85°	10.8	12.2	45.1	35.7	29.9	9.8	10.8	11.8	13.7	8.3	1.0
87.5°	0.0	0.0	21.1	18.6	5.9	3.9	6.4	6.9	6.9	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°	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9	2335.9
2.5°	2344.7	2295.7	2205.1	2111.6	2024.9	1921.6	1850.6	1797.2	1735.5	1718.8	1755.1
5°	2360.8	2268.3	2073.4	1861.3	1662.0	1441.2	1272.2	1138.5	1017.6	976.5	1013.7
7.5°	2386.3	2248.7	1930.9	1581.7	1235.0	890.3	654.2	499.0	400.1	370.7	386.4
10°	2411.8	2220.3	1765.8	1250.7	776.7	433.4	282.1	225.3	204.2	199.8	202.2
12.5°	2432.8	2182.1	1564.6	889.3	415.3	232.1	184.6	175.3	172.4	172.4	173.4
15°	2445.5	2124.3	1326.1	565.6	239.0	175.3	161.1	158.2	158.2	158.7	159.6
17.5°	2444.1	2050.9	1065.1	342.3	178.7	155.2	146.9	144.5	144.0	145.0	145.4
20°	2426.0	1954.9	803.1	225.8	155.7	141.5	133.2	128.8	128.3	129.3	130.3
22.5°	2391.7	1836.4	574.4	173.8	140.5	128.3	118.0	114.1	114.1	115.1	116.1
25°	2350.1	1691.4	392.7	147.4	126.8	114.1	104.3	100.9	101.9	104.3	104.8
27.5°	2298.2	1528.3	266.9	126.3	110.2	99.9	92.6	90.1	92.6	96.0	97.0
30°	2253.6	1358.4	190.5	109.2	93.5	86.2	81.8	81.8	85.2	91.6	93.0
32.5°	2219.3	1193.9	146.9	96.5	81.3	74.9	72.5	74.9	80.3	86.7	88.1
35°	2214.9	1058.2	124.4	86.2	72.5	66.1	65.1	69.5	74.9	79.8	80.8
37.5°	2248.7	932.9	112.1	77.9	64.6	58.8	57.8	63.2	68.6	74.4	75.9
40°	2312.8	834.4	103.3	70.0	58.3	51.9	49.9	53.9	61.2	69.0	71.0
42.5°	2396.1	753.2	93.5	62.2	51.9	43.1	40.6	45.1	52.9	61.2	63.7
45°	2475.4	683.1	82.8	53.4	43.6	33.3	32.3	38.2	42.1	50.4	52.4
47.5°	2519.0	621.4	73.5	43.6	33.8	26.9	26.9	28.4	32.3	42.1	44.1
50°	2504.3	572.0	63.7	32.3	23.5	20.6	20.6	20.1	26.0	33.8	35.3
52.5°	2474.9	543.6	54.8	25.0	16.2	14.7	13.2	14.7	18.1	21.5	22.0
55°	2470.5	538.7	46.0	20.1	11.3	9.8	7.3	7.3	7.3	6.9	5.9
57.5°	2504.8	546.5	38.7	16.2	8.3	6.4	3.9	0.0	0.0	0.0	0.0
60°	2540.1	554.8	33.3	11.3	5.9	3.4	0.5	0.0	0.0	0.0	0.0
62.5°	2481.3	536.2	27.9	6.9	4.4	1.5	0.0	0.0	0.0	0.0	0.0
65°	2179.6	456.4	22.0	4.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1550.4	305.6	14.7	2.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	707.6	127.8	9.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	151.3	39.7	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	30.9	28.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.8	45.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.9	32.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	4.9	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)