

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: P193470

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193470
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-HSS
Description: GALLEON AREA AND ROADWAY 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: 8136 lumens
Efficiency: N/A
Efficacy: 72.0 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): 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: 25 FT

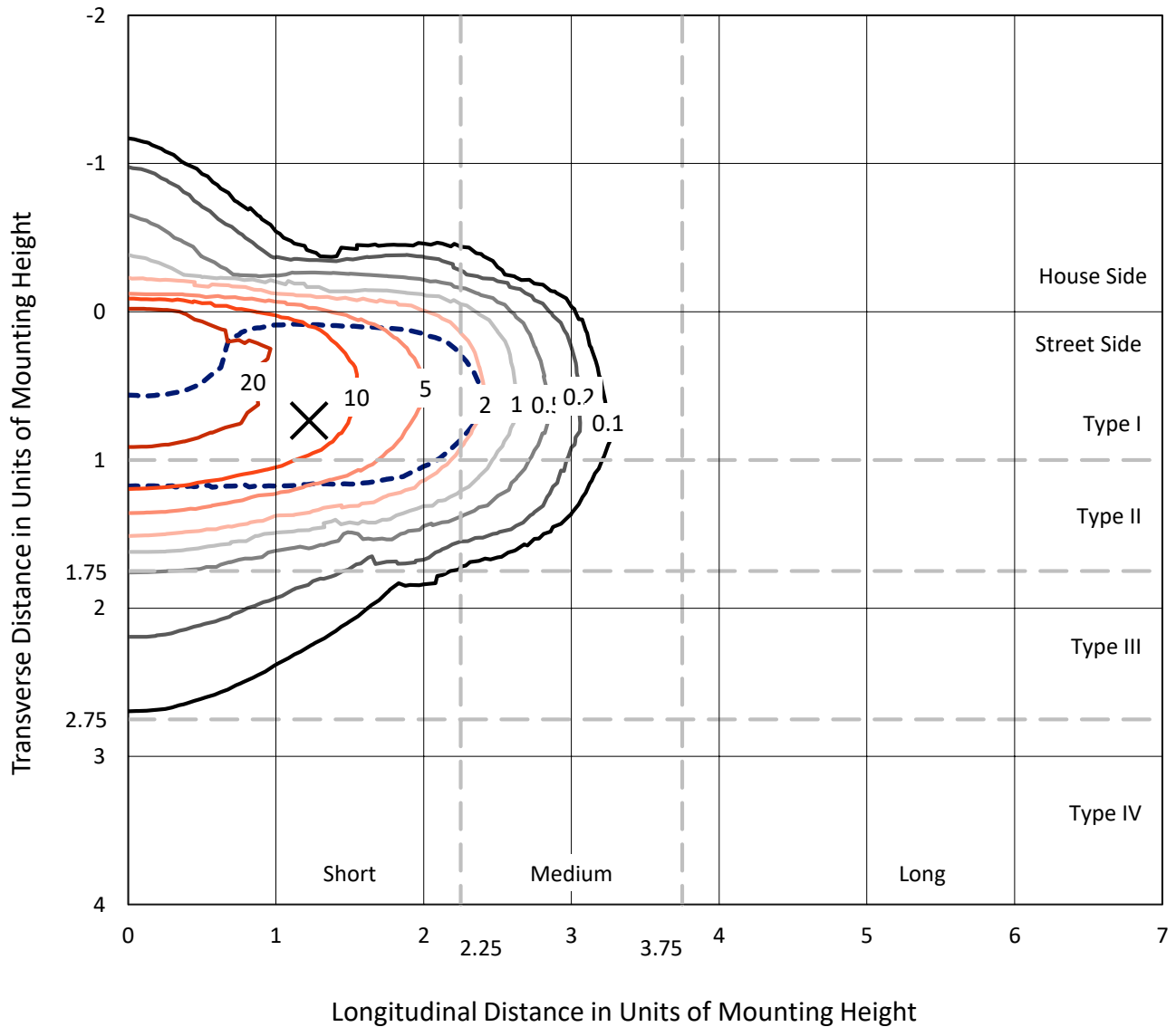


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

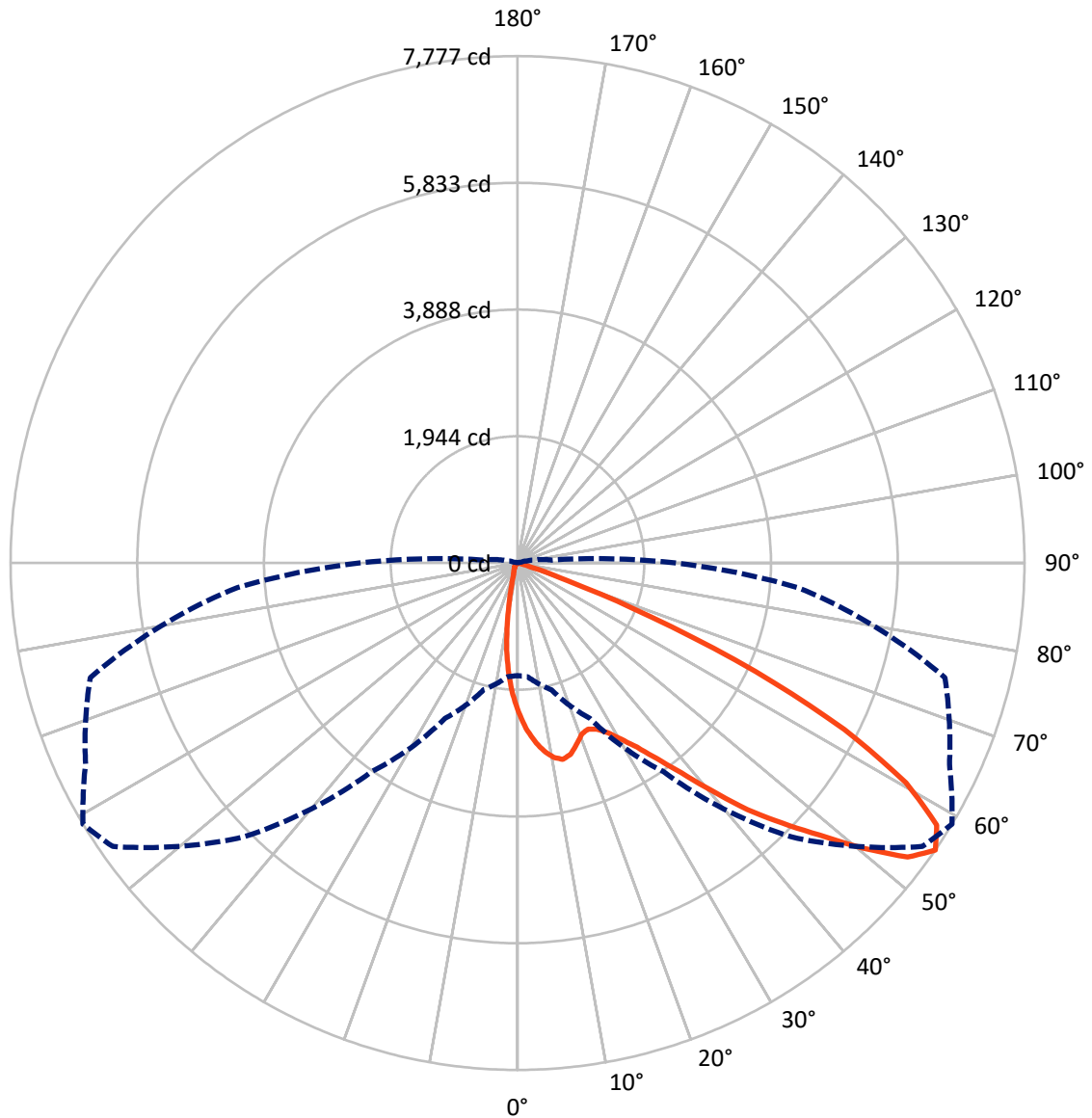


Based on 10 foot mounting height. Maximum calculated value = 28.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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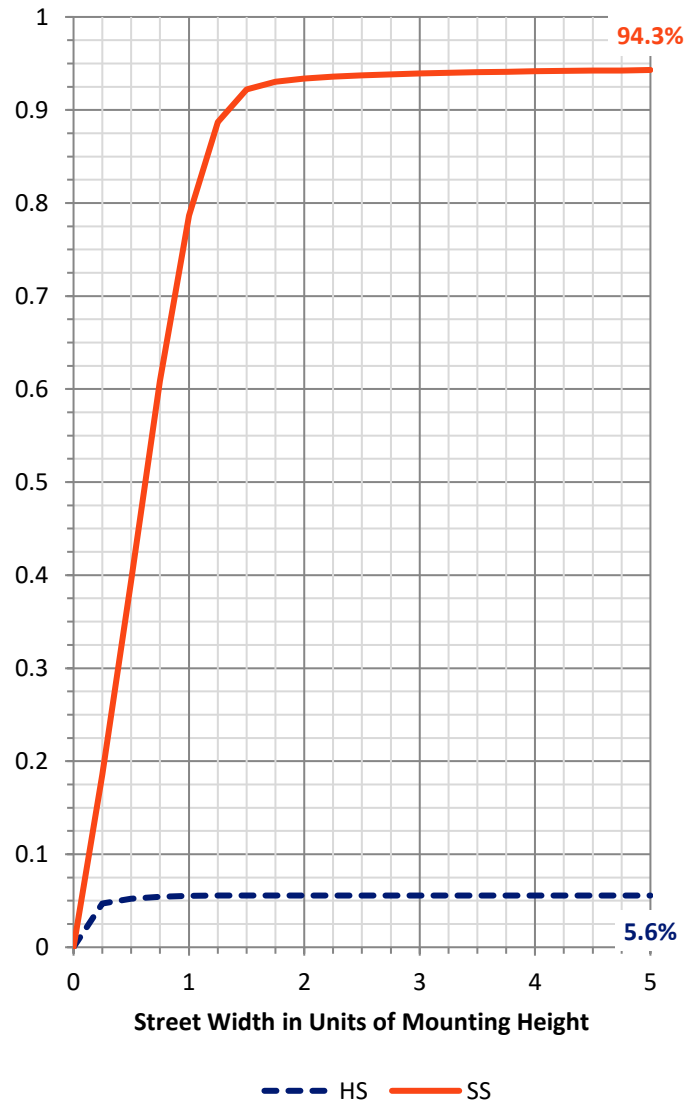
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	454.4	0.0	454.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	7681.6	0.0	7681.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	8136.0	0.0	8136.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	2.4
10°-20°	459.3	5.6
20°-30°	781.6	9.6
30°-40°	1344.1	16.5
40°-50°	2075.1	25.5
50°-60°	2086.2	25.6
60°-70°	1069.8	13.1
70°-80°	115.9	1.4
80°-90°	12.1	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°	8136.0	100.0
0°-180°	8136.0	100.0



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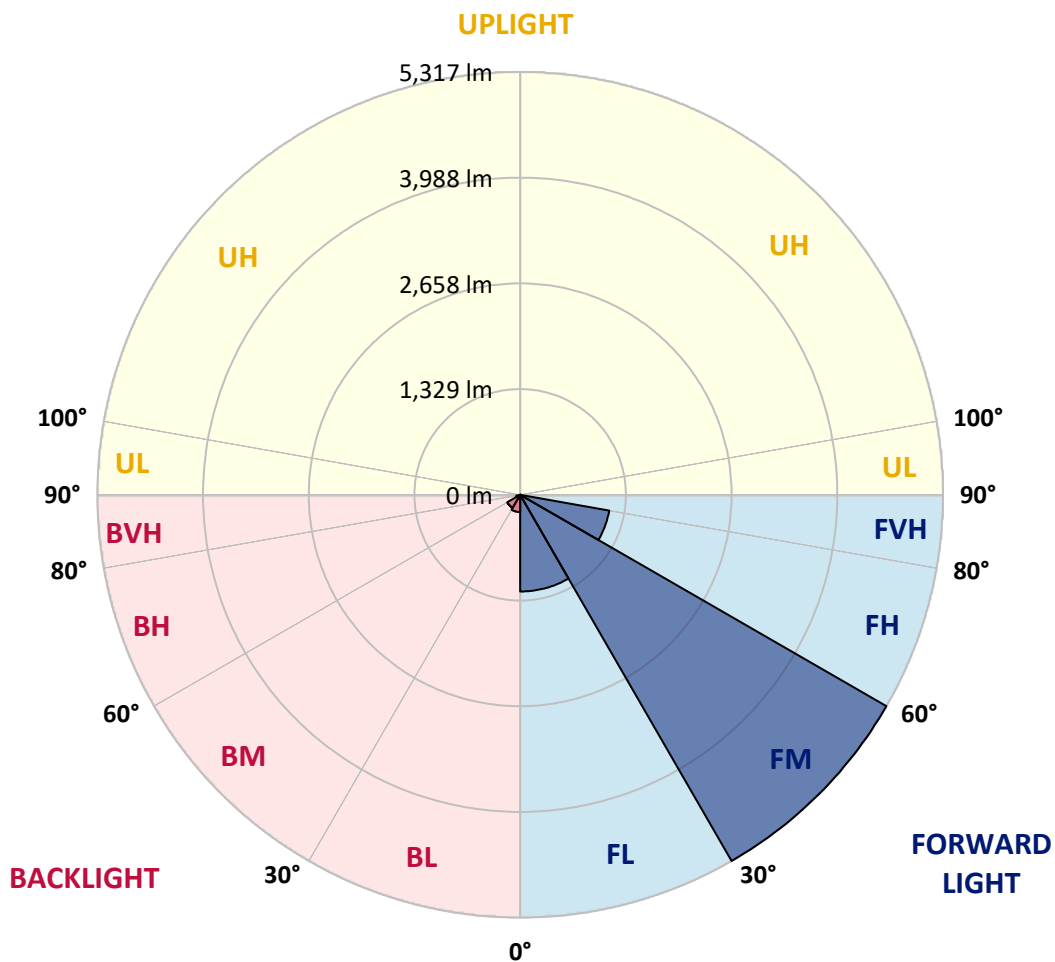
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1215.8	14.9			
FM	(30°-60°)	5316.8	65.3			
FH	(60°-80°)	1137.1	14.0			G1/1800
FVH	(80°-90°)	11.9	0.1			G1/100
BL	(0°-30°)	216.9	2.7	B1/500		
BM	(30°-60°)	188.6	2.3	B0/220		
BH	(60°-80°)	48.7	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°	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3
2.5°	2709.9	2681.1	2672.4	2666.7	2640.3	2607.1	2562.0	2540.9	2497.7	2428.1	2342.6
5°	2958.1	2952.8	2933.6	2923.1	2894.7	2847.7	2775.7	2741.1	2672.4	2555.3	2402.1
7.5°	2849.6	2882.7	2909.2	2953.3	3009.0	3007.1	2946.6	2910.6	2833.8	2679.2	2468.4
10°	2430.5	2457.3	2500.6	2600.9	2805.4	2986.0	3057.0	3031.1	2969.6	2793.0	2532.2
12.5°	2348.4	2345.5	2353.2	2382.4	2489.5	2746.9	3038.3	3090.6	3078.2	2897.1	2592.7
15°	2392.0	2388.7	2387.7	2397.8	2423.7	2532.2	2897.6	3047.9	3144.4	2993.7	2644.1
17.5°	2514.5	2500.1	2492.4	2484.2	2476.5	2503.4	2728.6	2928.4	3154.5	3078.2	2686.8
20°	2724.3	2700.3	2672.0	2625.9	2582.7	2569.2	2657.6	2805.4	3118.5	3142.5	2714.7
22.5°	2987.9	2957.2	2908.2	2824.2	2736.3	2685.4	2692.6	2766.6	3064.7	3212.6	2727.7
25°	3284.1	3244.8	3179.5	3062.8	2933.6	2843.4	2796.3	2822.2	3040.2	3294.7	2742.5
27.5°	3601.5	3557.8	3472.4	3313.4	3167.0	3045.0	2949.0	2945.6	3082.0	3402.3	2766.6
30°	3916.0	3909.3	3797.9	3629.8	3435.9	3287.5	3149.2	3131.5	3198.7	3551.1	2814.1
32.5°	4335.6	4285.2	4148.9	3976.0	3752.3	3574.1	3410.4	3369.1	3377.8	3724.4	2887.5
35°	4864.8	4809.5	4617.5	4378.9	4128.7	3918.4	3737.4	3681.2	3660.1	4008.2	3011.4
37.5°	5206.6	5205.6	5085.1	4842.2	4573.8	4341.9	4145.0	4079.2	4036.5	4351.0	3203.5
40°	5215.7	5238.3	5254.1	5251.7	5060.6	4847.0	4672.2	4591.1	4491.7	4809.1	3451.7
42.5°	4935.8	4993.9	5133.6	5370.8	5484.1	5399.1	5251.7	5172.0	5024.2	5299.3	3754.2
45°	4557.5	4597.8	4842.2	5279.1	5713.6	5946.5	5834.1	5691.5	5496.6	5810.6	4025.5
47.5°	4388.0	4395.2	4553.1	5032.8	5730.9	6394.9	6463.1	6231.2	5925.9	6222.6	4237.7
50°	3881.4	3894.4	4112.4	4606.0	5528.3	6606.7	7095.0	6875.1	6394.0	6539.9	4315.0
52.5°	2925.5	2943.7	3220.3	3904.5	4971.3	6516.4	7547.3	7494.0	6906.8	6695.0	4319.3
55°	1726.1	1750.1	2014.2	2628.3	3910.2	5942.2	7580.9	7776.8	7311.5	6786.7	4312.6
57.5°	806.2	823.0	974.2	1354.0	2431.9	4696.2	7074.8	7582.8	7534.8	6835.2	4360.1
60°	428.3	433.1	469.6	586.2	1099.0	2977.8	6087.2	6847.2	7331.2	6902.5	4418.2
62.5°	327.5	328.9	327.0	340.9	461.9	1321.8	4601.2	5629.1	6511.6	6852.0	4353.9
65°	283.8	286.2	272.7	269.4	296.2	471.5	2733.4	4012.5	5116.8	6171.7	3915.5
67.5°	254.5	255.4	239.1	225.2	230.0	255.0	1078.4	2196.6	3386.9	4523.9	2838.1
70°	234.3	233.3	215.6	193.5	187.3	174.3	342.8	805.2	1618.5	2294.1	1319.9
72.5°	207.4	207.9	199.3	170.4	155.6	122.0	158.9	234.8	483.0	625.1	309.2
75°	183.9	181.5	170.9	152.7	128.2	80.2	78.7	104.7	148.8	147.9	66.7
77.5°	133.0	130.6	134.0	125.3	98.4	51.9	39.4	50.4	60.5	58.6	18.7
80°	97.5	96.0	86.4	104.2	86.9	35.5	24.5	26.9	31.2	26.4	5.8
82.5°	66.7	66.3	61.0	57.6	49.5	21.6	15.4	16.8	20.2	14.9	2.9
85°	10.6	12.0	44.2	35.1	29.3	9.6	10.6	11.5	13.4	8.2	1.0
87.5°	0.0	0.0	20.6	18.2	5.8	3.8	6.2	6.7	6.7	4.3	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°	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3	2290.3
2.5°	2298.9	2250.9	2162.1	2070.4	1985.4	1884.1	1814.4	1762.1	1701.6	1685.3	1720.8
5°	2314.7	2224.0	2032.9	1825.0	1629.6	1413.0	1247.4	1116.3	997.7	957.4	993.9
7.5°	2339.7	2204.8	1893.2	1550.8	1210.9	872.9	641.5	489.3	392.3	363.5	378.8
10°	2364.7	2176.9	1731.4	1226.3	761.5	424.9	276.6	220.9	200.2	195.9	198.3
12.5°	2385.3	2139.5	1534.0	871.9	407.2	227.6	181.0	171.9	169.0	169.0	170.0
15°	2397.8	2082.8	1300.2	554.6	234.3	171.9	158.0	155.1	155.1	155.6	156.5
17.5°	2396.4	2010.8	1044.3	335.6	175.3	152.2	144.0	141.6	141.2	142.1	142.6
20°	2378.6	1916.7	787.4	221.3	152.7	138.8	130.6	126.3	125.8	126.8	127.7
22.5°	2345.0	1800.5	563.2	170.4	137.8	125.8	115.7	111.9	111.9	112.8	113.8
25°	2304.2	1658.4	385.1	144.5	124.4	111.9	102.3	98.9	99.9	102.3	102.7
27.5°	2253.3	1498.5	261.7	123.9	108.0	97.9	90.7	88.3	90.7	94.1	95.1
30°	2209.6	1331.9	186.8	107.1	91.7	84.5	80.2	80.2	83.5	89.8	91.2
32.5°	2176.0	1170.6	144.0	94.6	79.7	73.5	71.1	73.5	78.7	85.0	86.4
35°	2171.7	1037.6	122.0	84.5	71.1	64.8	63.9	68.2	73.5	78.3	79.2
37.5°	2204.8	914.7	110.0	76.3	63.4	57.6	56.7	61.9	67.2	73.0	74.4
40°	2267.7	818.2	101.3	68.7	57.1	50.9	49.0	52.8	60.0	67.7	69.6
42.5°	2349.3	738.5	91.7	61.0	50.9	42.3	39.9	44.2	51.9	60.0	62.4
45°	2427.1	669.8	81.1	52.3	42.7	32.6	31.7	37.5	41.3	49.5	51.4
47.5°	2469.8	609.3	72.0	42.7	33.1	26.4	26.4	27.8	31.7	41.3	43.2
50°	2455.4	560.8	62.4	31.7	23.0	20.2	20.2	19.7	25.4	33.1	34.6
52.5°	2426.6	533.0	53.8	24.5	15.8	14.4	13.0	14.4	17.8	21.1	21.6
55°	2422.3	528.2	45.1	19.7	11.0	9.6	7.2	7.2	7.2	6.7	5.8
57.5°	2455.9	535.8	37.9	15.8	8.2	6.2	3.8	0.0	0.0	0.0	0.0
60°	2490.5	544.0	32.6	11.0	5.8	3.4	0.5	0.0	0.0	0.0	0.0
62.5°	2432.9	525.8	27.4	6.7	4.3	1.4	0.0	0.0	0.0	0.0	0.0
65°	2137.1	447.5	21.6	4.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1520.1	299.6	14.4	2.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	693.8	125.3	9.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	148.4	38.9	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	30.2	28.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.6	44.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.8	32.2	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)