

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: P300732

Luminaire Tested: **GLNA-AF-03-LED-E1-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300732
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: GLNA-AF-03-LED-E1-AFL-7027-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7735.2 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 96
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

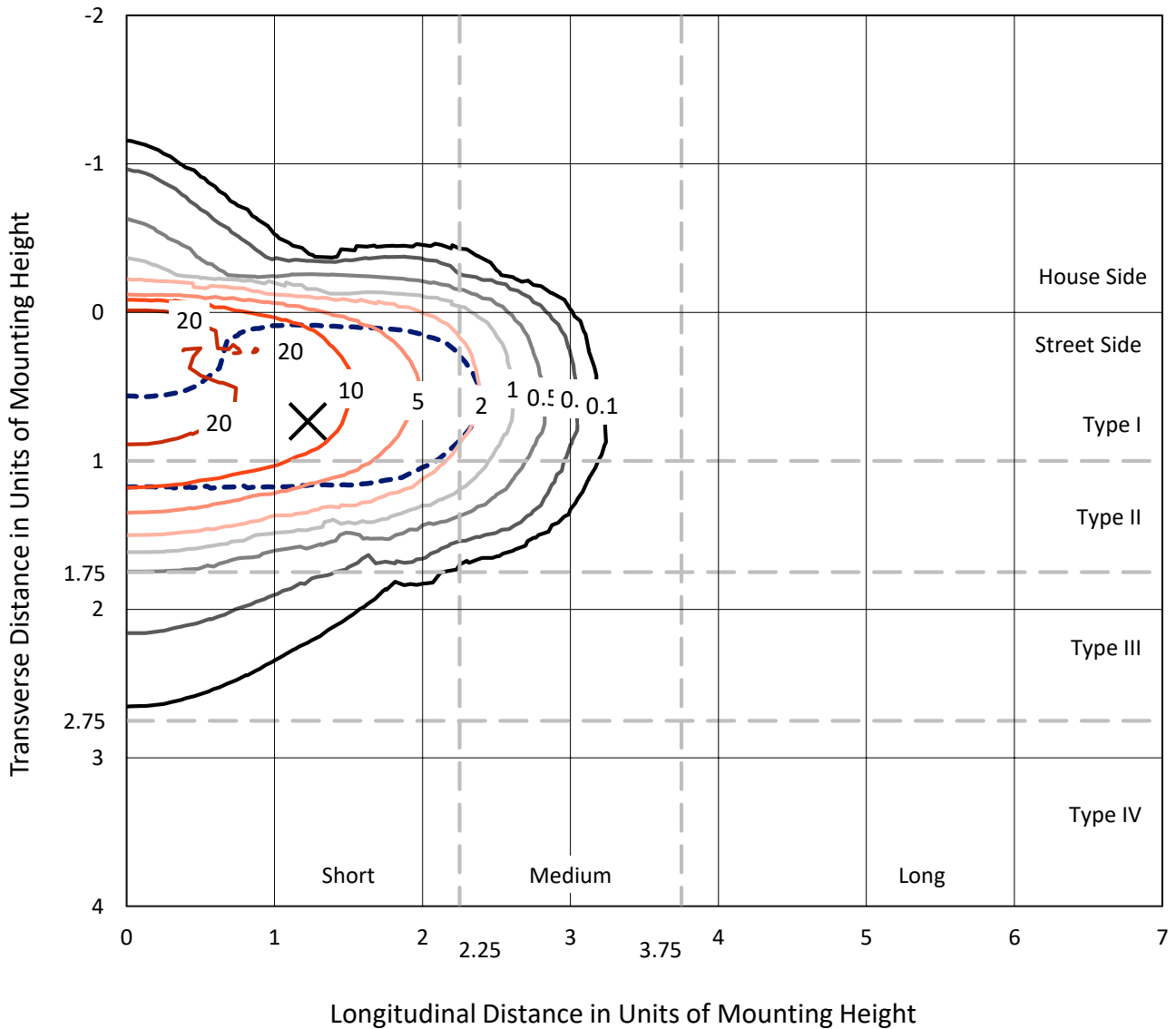


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

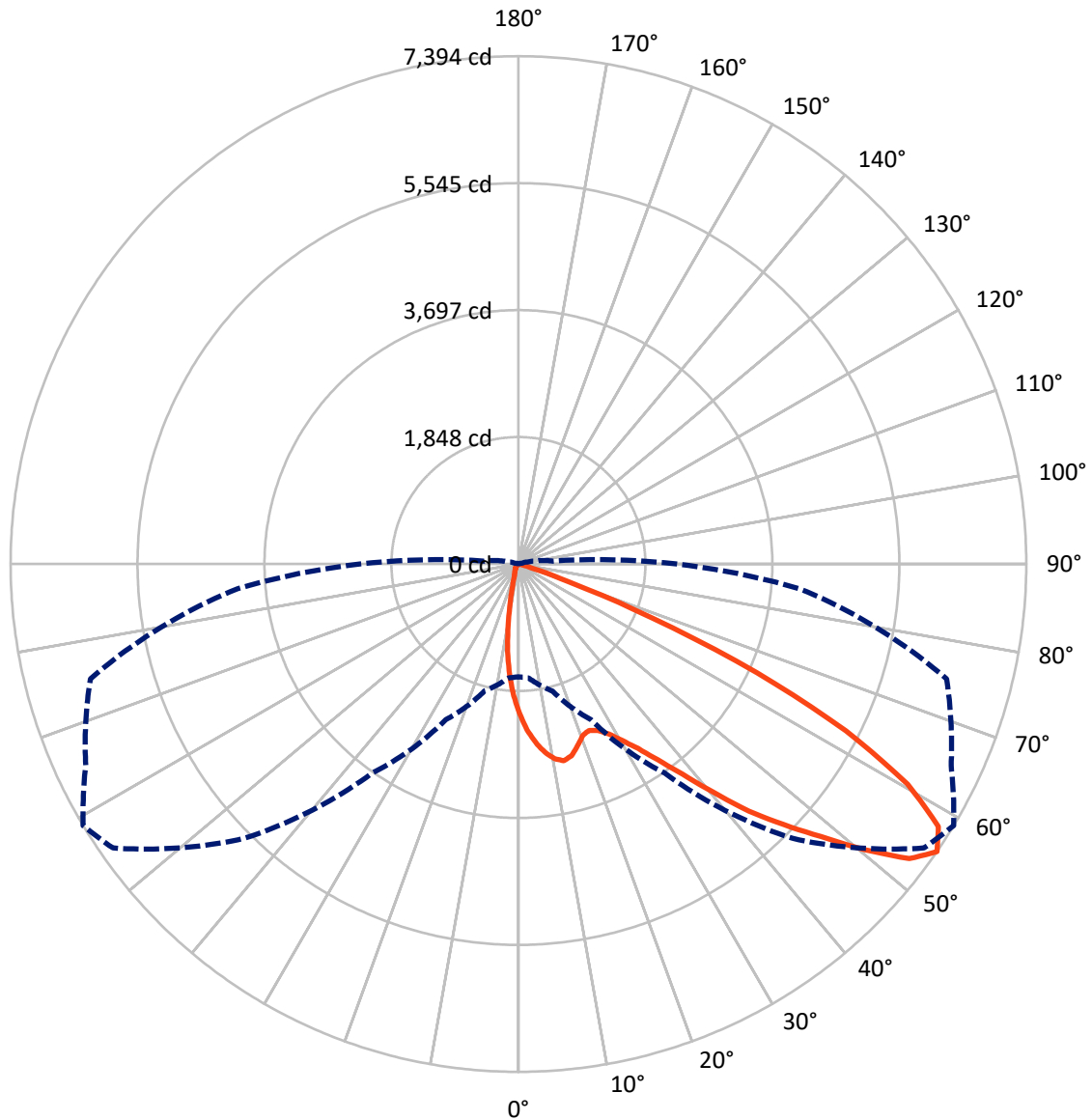


Based on 10 foot mounting height. Maximum calculated value = 27.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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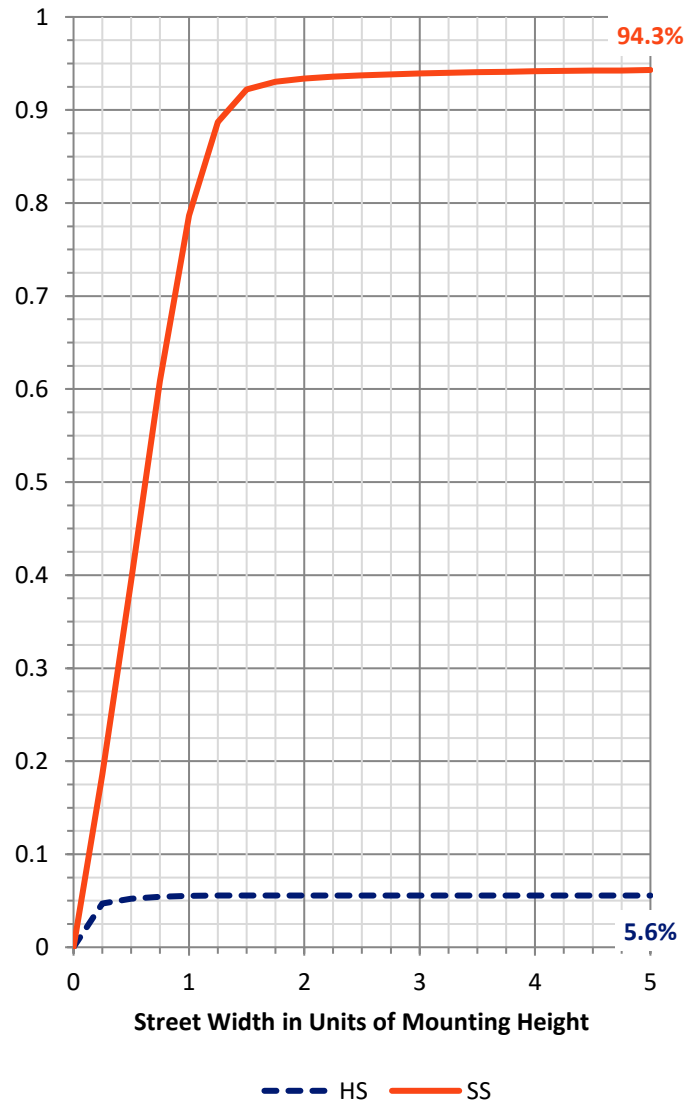
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	432.1	0.0	432.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	7303.1	0.0	7303.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	7735.2	0.0	7735.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	2.4
10°-20°	436.7	5.6
20°-30°	743.1	9.6
30°-40°	1277.9	16.5
40°-50°	1972.9	25.5
50°-60°	1983.4	25.6
60°-70°	1017.1	13.1
70°-80°	110.2	1.4
80°-90°	11.5	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°	7735.2	100.0
0°-180°	7735.2	100.0



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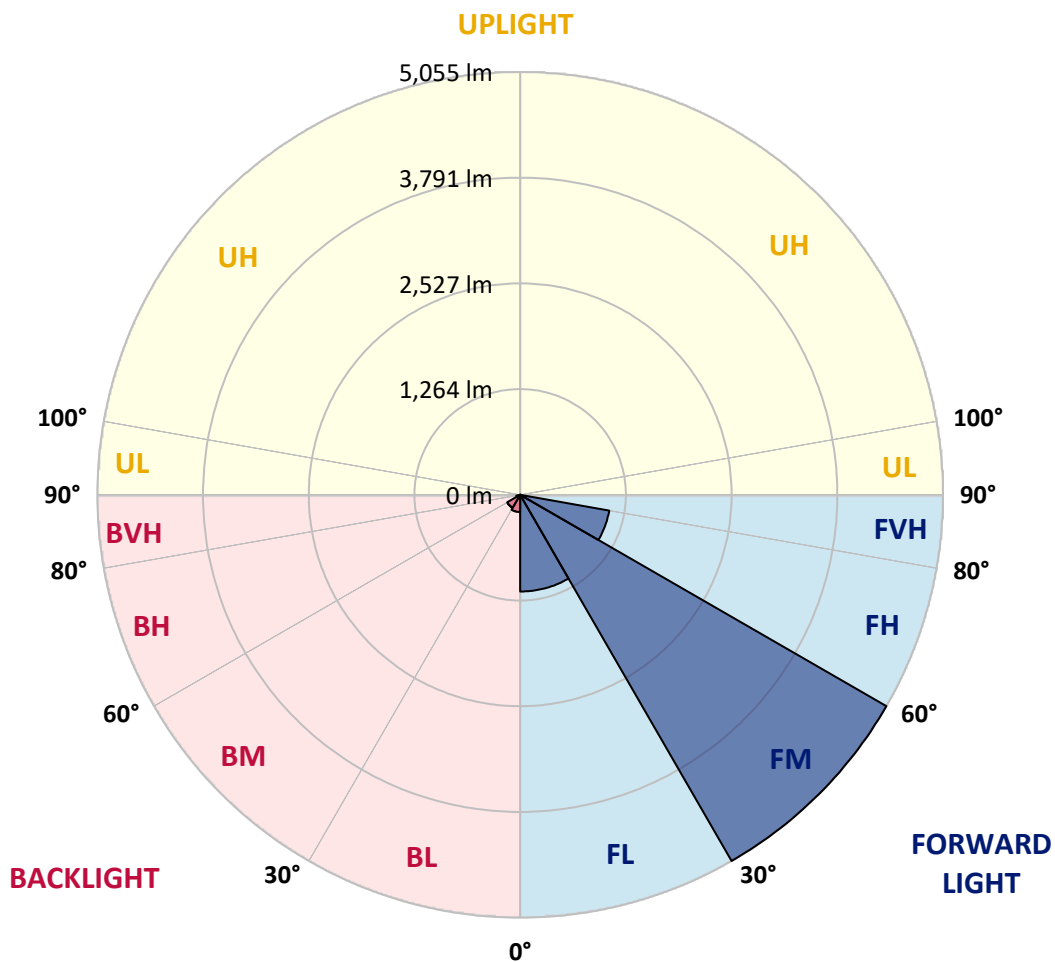
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1155.9	14.9			
FM	(30°-60°)	5054.9	65.3			
FH	(60°-80°)	1081.0	14.0			G1/1800
FVH	(80°-90°)	11.3	0.1			G1/100
BL	(0°-30°)	206.2	2.7	B1/500		
BM	(30°-60°)	179.3	2.3	B0/220		
BH	(60°-80°)	46.3	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°	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4
2.5°	2576.4	2549.0	2540.8	2535.3	2510.2	2478.7	2435.8	2415.7	2374.6	2308.4	2227.2
5°	2812.4	2807.4	2789.1	2779.1	2752.1	2707.4	2638.9	2606.1	2540.8	2429.4	2283.8
7.5°	2709.2	2740.7	2765.8	2807.8	2860.8	2859.0	2801.4	2767.2	2694.2	2547.2	2346.8
10°	2310.7	2336.3	2377.4	2472.8	2667.2	2838.9	2906.4	2881.8	2823.4	2655.4	2407.5
12.5°	2232.7	2229.9	2237.2	2265.1	2366.9	2611.5	2888.6	2938.4	2926.5	2754.4	2465.0
15°	2274.2	2271.0	2270.1	2279.7	2304.3	2407.5	2754.9	2897.8	2989.5	2846.2	2513.9
17.5°	2390.6	2376.9	2369.6	2361.8	2354.5	2380.1	2594.2	2784.1	2999.1	2926.5	2554.5
20°	2590.1	2567.3	2540.3	2496.5	2455.4	2442.6	2526.6	2667.2	2964.9	2987.7	2581.0
22.5°	2840.7	2811.5	2764.9	2685.0	2601.5	2553.1	2560.0	2630.3	2913.7	3054.3	2593.3
25°	3122.3	3084.9	3022.8	2911.9	2789.1	2703.3	2658.6	2683.2	2890.5	3132.4	2607.4
27.5°	3424.1	3382.5	3301.3	3150.2	3011.0	2895.0	2803.7	2800.5	2930.2	3234.6	2630.3
30°	3723.1	3716.7	3610.8	3451.0	3266.6	3125.5	2994.1	2977.2	3041.1	3376.2	2675.5
32.5°	4122.0	4074.1	3944.5	3780.1	3567.4	3398.1	3242.4	3203.1	3211.4	3540.9	2745.3
35°	4625.1	4572.6	4390.0	4163.1	3925.3	3725.4	3553.3	3499.9	3479.8	3810.7	2863.1
37.5°	4950.1	4949.2	4834.6	4603.6	4348.5	4128.0	3940.8	3878.3	3837.7	4136.7	3045.7
40°	4958.8	4980.2	4995.3	4993.0	4811.3	4608.2	4442.0	4364.9	4270.4	4572.1	3281.7
42.5°	4692.7	4747.9	4880.7	5106.2	5214.0	5133.2	4993.0	4917.2	4776.6	5038.2	3569.2
45°	4332.9	4371.3	4603.6	5019.0	5432.2	5653.6	5546.7	5411.2	5225.8	5524.4	3827.2
47.5°	4171.8	4178.7	4328.8	4784.9	5448.6	6079.9	6144.7	5924.2	5633.9	5916.0	4028.9
50°	3690.2	3702.5	3909.8	4379.1	5256.0	6281.2	6745.5	6536.4	6079.0	6217.8	4102.4
52.5°	2781.4	2798.7	3061.6	3712.1	4726.4	6195.4	7175.5	7124.8	6566.5	6365.2	4106.5
55°	1641.1	1663.9	1914.9	2498.8	3717.6	5649.4	7207.4	7393.7	6951.3	6452.4	4100.1
57.5°	766.4	782.4	926.2	1287.3	2312.1	4464.9	6726.3	7209.3	7163.6	6498.5	4145.3
60°	407.2	411.7	446.4	557.4	1044.9	2831.1	5787.3	6509.9	6970.1	6562.4	4200.6
62.5°	311.3	312.7	310.9	324.1	439.1	1256.7	4374.5	5351.8	6190.8	6514.5	4139.4
65°	269.8	272.1	259.3	256.1	281.7	448.3	2598.8	3814.8	4864.7	5867.6	3722.6
67.5°	241.9	242.8	227.3	214.1	218.7	242.4	1025.3	2088.4	3220.0	4301.0	2698.3
70°	222.8	221.9	205.0	184.0	178.0	165.7	325.9	765.5	1538.8	2181.1	1254.9
72.5°	197.2	197.7	189.4	162.1	147.9	115.9	151.1	223.2	459.2	594.3	294.0
75°	174.8	172.6	162.5	145.2	121.9	76.2	74.9	99.5	141.5	140.6	63.5
77.5°	126.4	124.2	127.4	119.1	93.6	49.3	37.4	47.9	57.5	55.7	17.8
80°	92.7	91.3	82.2	99.1	82.6	33.8	23.3	25.6	29.7	25.1	5.5
82.5°	63.5	63.0	58.0	54.8	47.0	20.5	14.6	16.0	19.2	14.2	2.7
85°	10.0	11.4	42.0	33.3	27.8	9.1	10.0	11.0	12.8	7.8	0.9
87.5°	0.0	0.0	19.6	17.3	5.5	3.7	5.9	6.4	6.4	4.1	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°	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4	2177.4
2.5°	2185.6	2140.0	2055.5	1968.4	1887.6	1791.2	1725.1	1675.3	1617.8	1602.3	1636.0
5°	2200.7	2114.4	1932.8	1735.1	1549.3	1343.4	1185.9	1061.3	948.6	910.2	944.9
7.5°	2224.4	2096.2	1799.9	1474.4	1151.3	829.9	609.9	465.2	372.9	345.6	360.2
10°	2248.2	2069.7	1646.1	1165.9	724.0	404.0	262.9	210.0	190.4	186.2	188.5
12.5°	2267.8	2034.1	1458.5	829.0	387.1	216.4	172.1	163.4	160.7	160.7	161.6
15°	2279.7	1980.2	1236.2	527.2	222.8	163.4	150.2	147.4	147.4	147.9	148.8
17.5°	2278.3	1911.8	992.9	319.1	166.6	144.7	136.9	134.7	134.2	135.1	135.6
20°	2261.4	1822.3	748.6	210.4	145.2	131.9	124.2	120.1	119.6	120.5	121.4
22.5°	2229.5	1711.8	535.5	162.1	131.0	119.6	110.0	106.4	106.4	107.3	108.2
25°	2190.7	1576.7	366.1	137.4	118.2	106.4	97.2	94.0	94.9	97.2	97.7
27.5°	2142.3	1424.7	248.8	117.8	102.7	93.1	86.3	84.0	86.3	89.5	90.4
30°	2100.7	1266.3	177.6	101.8	87.2	80.3	76.2	76.2	79.4	85.4	86.7
32.5°	2068.8	1112.9	136.9	89.9	75.8	69.8	67.6	69.8	74.9	80.8	82.2
35°	2064.7	986.5	115.9	80.3	67.6	61.6	60.7	64.8	69.8	74.4	75.3
37.5°	2096.2	869.6	104.5	72.6	60.3	54.8	53.9	58.9	63.9	69.4	70.8
40°	2156.0	777.8	96.3	65.3	54.3	48.4	46.6	50.2	57.1	64.4	66.2
42.5°	2233.6	702.1	87.2	58.0	48.4	40.2	37.9	42.0	49.3	57.1	59.3
45°	2307.5	636.8	77.1	49.8	40.6	31.0	30.1	35.6	39.3	47.0	48.8
47.5°	2348.2	579.3	68.5	40.6	31.5	25.1	25.1	26.5	30.1	39.3	41.1
50°	2334.5	533.2	59.3	30.1	21.9	19.2	19.2	18.7	24.2	31.5	32.9
52.5°	2307.1	506.7	51.1	23.3	15.1	13.7	12.3	13.7	16.9	20.1	20.5
55°	2303.0	502.1	42.9	18.7	10.5	9.1	6.8	6.8	6.8	6.4	5.5
57.5°	2334.9	509.4	36.1	15.1	7.8	5.9	3.7	0.0	0.0	0.0	0.0
60°	2367.8	517.2	31.0	10.5	5.5	3.2	0.5	0.0	0.0	0.0	0.0
62.5°	2313.0	499.8	26.0	6.4	4.1	1.4	0.0	0.0	0.0	0.0	0.0
65°	2031.8	425.4	20.5	4.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1445.2	284.8	13.7	2.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	659.6	119.1	8.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	141.1	37.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	28.8	26.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.1	42.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.5	30.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.9	4.6	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)