

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: P382853

Luminaire Tested: **GLEON-SA2B-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 8916.8 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

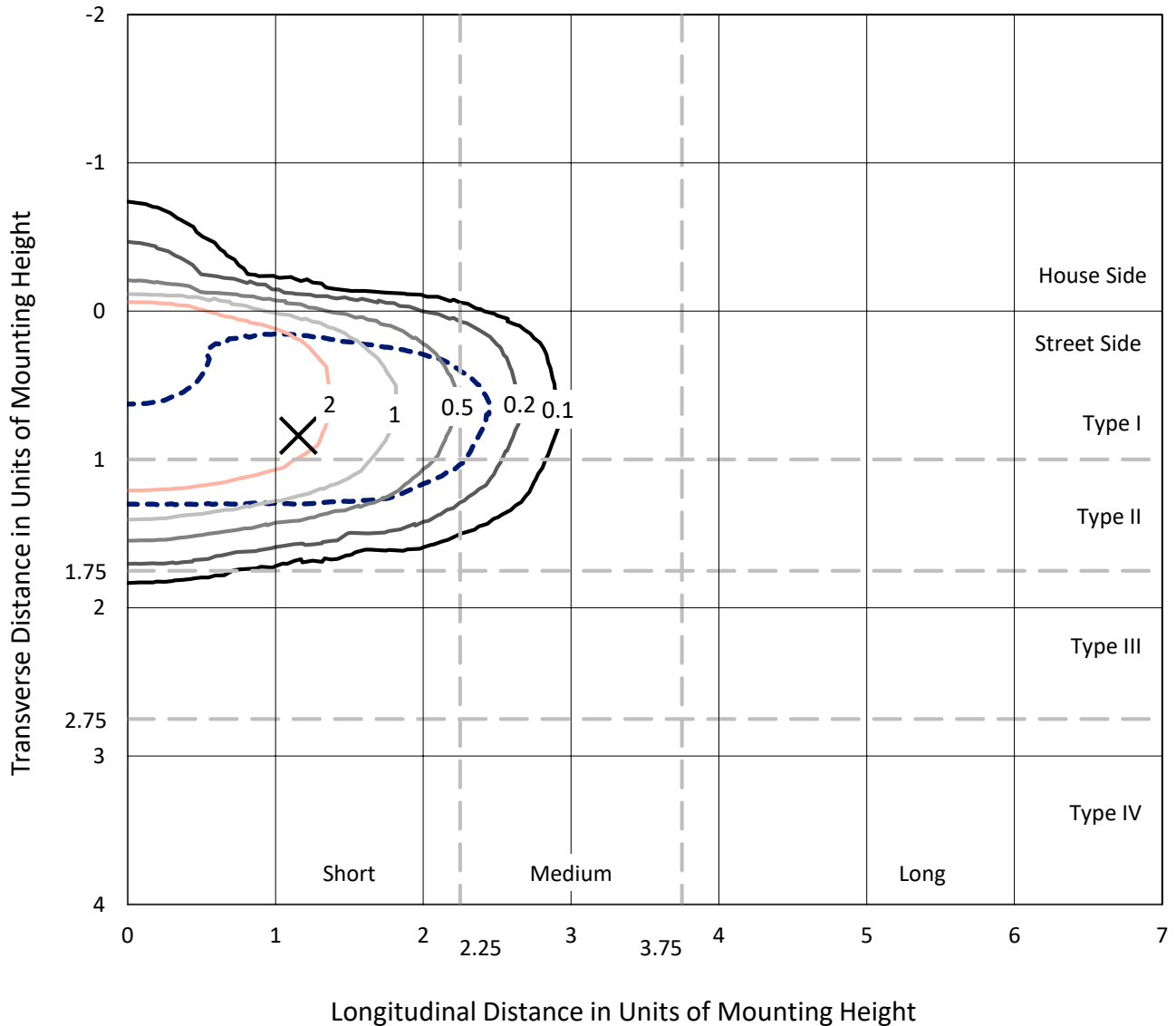
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

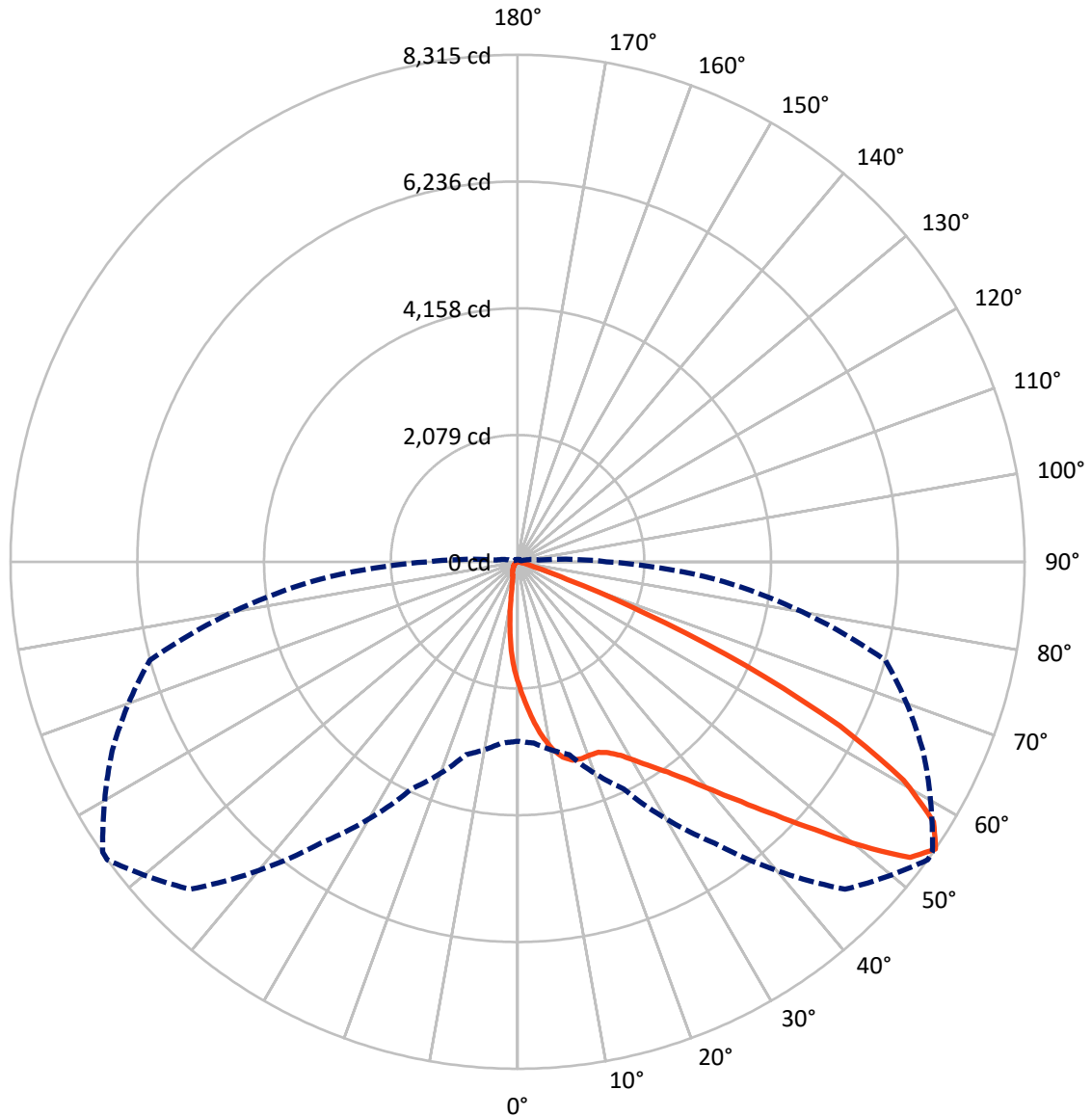
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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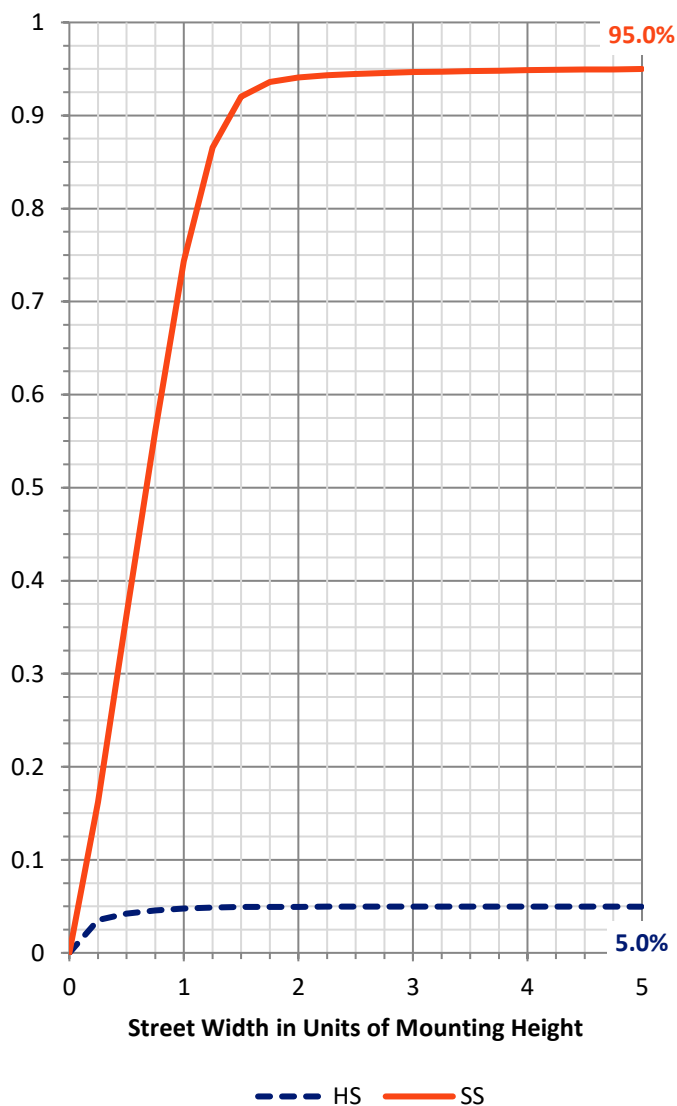
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	444.9	0.0	444.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8471.9	0.0	8471.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	8916.8	0.0	8916.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	2.1
10°-20°	504.4	5.7
20°-30°	861.1	9.7
30°-40°	1381.9	15.5
40°-50°	2208.3	24.8
50°-60°	2366.3	26.5
60°-70°	1214.9	13.6
70°-80°	184.0	2.1
80°-90°	12.0	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°	8916.8	100.0
0°-180°	8916.8	100.0

Coefficient of Utilization

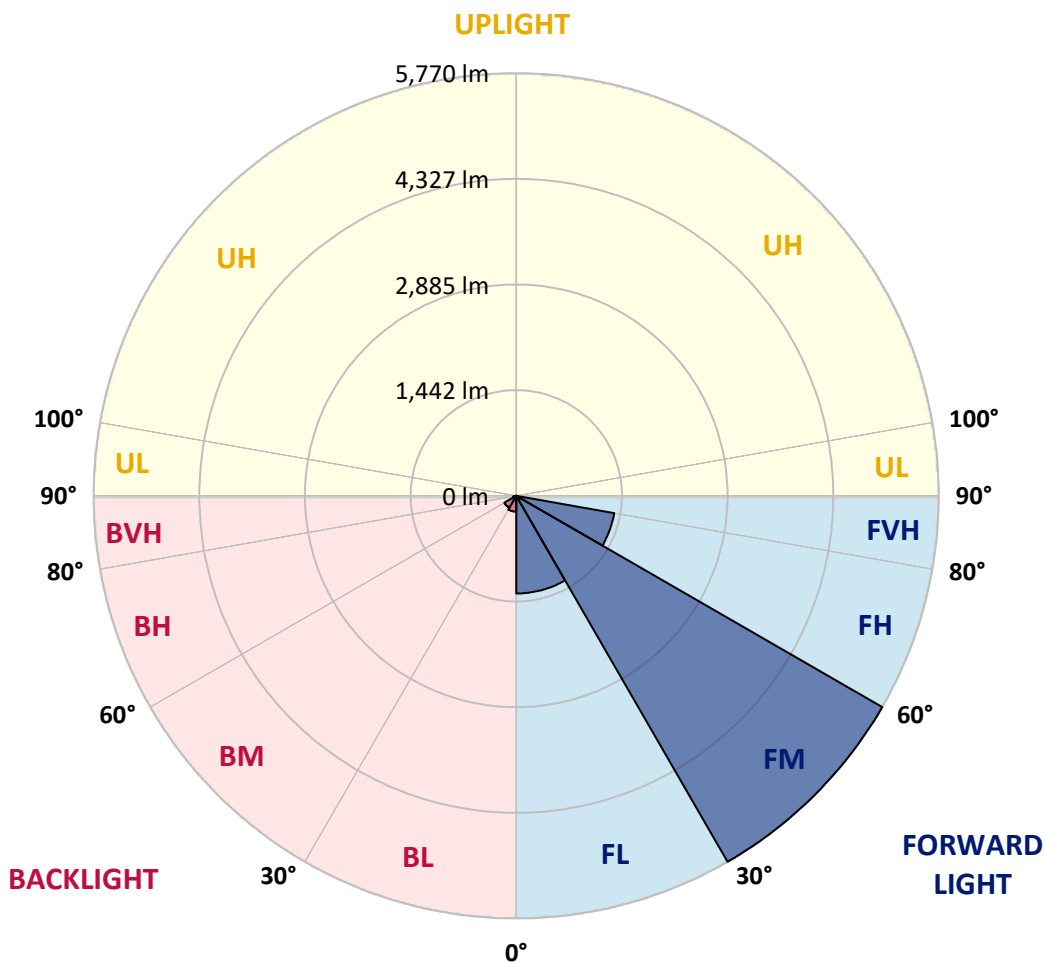


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.9	14.9			
FM (30°-60°)	5769.5	64.7			
FH (60°-80°)	1357.9	15.2			G1/1800
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	216.5	2.4	B1/500		
BM (30°-60°)	186.9	2.1	B0/220		
BH (60°-80°)	41.0	0.5	B0/110		G0/110
BVH (80°-90°)	0.5	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°	54°	55°	65°	75°	85°
0°	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0
2.5°	2506.0	2468.7	2469.9	2453.0	2390.9	2342.4	2292.0	2280.1	2201.4	2119.1	2039.7
5°	2939.3	2911.9	2905.4	2872.7	2786.4	2695.2	2597.3	2574.6	2421.0	2252.3	2086.3
7.5°	3161.9	3162.2	3156.8	3144.9	3091.0	3002.5	2883.0	2859.2	2650.1	2397.1	2134.8
10°	3097.1	3111.8	3141.8	3181.5	3222.7	3211.5	3121.8	3100.3	2873.1	2550.4	2188.8
12.5°	2946.2	2948.2	2981.6	3046.7	3165.3	3287.0	3288.5	3281.2	3086.0	2710.5	2248.1
15°	2871.1	2878.5	2890.8	2932.7	3045.1	3240.0	3379.4	3389.8	3281.2	2880.7	2311.3
17.5°	2920.4	2930.8	2920.4	2925.4	2990.5	3165.7	3395.2	3421.8	3451.8	3049.0	2370.9
20°	3054.0	3063.7	3045.1	3024.7	3037.5	3144.2	3384.0	3419.9	3585.4	3198.5	2421.0
22.5°	3234.2	3238.1	3210.0	3176.5	3167.3	3217.3	3393.3	3430.2	3692.5	3333.6	2452.6
25°	3432.6	3436.0	3401.0	3362.5	3340.5	3360.9	3469.2	3496.8	3786.8	3462.6	2470.7
27.5°	3648.6	3651.7	3607.8	3560.4	3534.9	3535.8	3594.3	3623.9	3887.3	3609.7	2485.3
30°	3876.9	3875.4	3835.0	3769.1	3736.8	3736.0	3774.5	3804.5	4032.9	3798.4	2505.3
32.5°	4133.4	4130.3	4072.9	3991.3	3954.7	3960.1	3994.4	4011.7	4213.5	3999.4	2541.1
35°	4471.1	4462.2	4375.6	4274.3	4207.0	4205.0	4233.9	4247.8	4443.8	4242.7	2600.8
37.5°	4909.3	4901.2	4783.8	4636.7	4541.9	4506.5	4540.8	4558.5	4772.2	4555.1	2696.6
40°	5341.4	5333.3	5263.6	5128.8	4982.8	4897.8	4924.7	4943.6	5182.4	4933.9	2817.6
42.5°	5639.4	5646.4	5670.6	5681.8	5545.0	5366.4	5378.8	5398.4	5613.2	5339.1	2955.8
45°	5718.0	5733.0	5870.1	6139.3	6190.5	6051.1	5922.0	5932.8	6051.1	5744.2	3094.0
47.5°	5482.0	5509.6	5774.2	6274.8	6708.4	6807.0	6562.8	6548.6	6471.2	6071.8	3192.2
50°	4945.5	4970.9	5313.6	6054.1	6865.5	7528.6	7330.7	7288.7	6839.7	6267.8	3227.0
52.5°	4169.2	4200.0	4478.4	5359.5	6569.4	7850.5	8057.7	8022.7	7110.0	6283.3	3232.7
55°	2944.2	2981.6	3276.3	4107.6	5630.9	7594.4	8315.3	8304.9	7334.5	6242.5	3245.0
57.5°	1654.7	1681.6	1999.3	2633.1	4124.1	6614.8	8046.1	8115.1	7470.1	6171.6	3263.5
60°	734.7	742.1	906.5	1310.8	2414.4	5055.2	7275.6	7391.9	7353.8	6076.9	3294.7
62.5°	407.4	401.2	401.2	544.9	1049.3	3129.5	5932.8	6125.0	6857.4	5964.8	3296.3
65°	319.2	313.5	296.9	299.2	399.7	1388.9	4108.4	4449.9	5914.8	5636.3	3185.3
67.5°	270.7	265.7	249.2	242.6	248.4	458.2	2257.3	2612.0	4488.0	4782.7	2759.1
70°	228.7	225.2	216.8	208.7	194.0	226.5	863.7	1104.8	2765.6	3181.5	1883.4
72.5°	184.1	182.5	185.6	178.7	161.0	150.9	295.4	357.7	1242.2	1419.8	775.9
75°	158.6	157.9	159.4	152.5	132.5	105.2	150.2	164.0	350.4	347.4	157.2
77.5°	103.2	104.3	132.1	129.0	114.0	70.1	77.8	83.9	106.3	79.7	47.8
80°	65.9	65.1	67.0	107.0	102.5	53.6	38.9	40.8	51.2	39.3	23.1
82.5°	40.1	39.3	43.9	50.0	51.6	37.4	23.8	24.2	32.0	25.4	12.3
85°	3.4	4.7	26.5	24.7	17.7	11.6	11.6	12.3	17.0	15.0	6.9
87.5°	0.0	0.0	4.7	6.9	3.8	4.2	4.2	4.7	6.5	6.5	3.4
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°	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0
2.5°	1998.5	1958.5	1877.6	1799.8	1734.0	1670.5	1598.1	1526.4	1492.9	1479.5	1465.6
5°	2002.0	1919.6	1752.9	1584.9	1410.9	1254.2	1120.6	983.5	915.0	884.9	871.0
7.5°	2006.6	1881.1	1611.6	1329.7	1049.3	836.8	651.2	531.8	480.2	472.1	452.1
10°	2007.4	1834.5	1447.5	1047.8	703.5	504.4	388.2	326.5	303.8	300.0	293.4
12.5°	2009.0	1779.4	1265.3	775.9	469.0	337.3	280.7	260.3	254.1	253.8	253.8
15°	2013.5	1721.7	1076.3	559.1	336.9	267.3	246.5	238.4	236.1	237.2	236.8
17.5°	2013.5	1653.5	890.7	416.7	272.3	240.2	228.7	223.4	222.5	223.8	224.1
20°	1998.9	1570.7	720.5	324.3	241.5	222.9	212.6	207.5	205.6	206.4	206.8
22.5°	1963.9	1469.1	581.8	268.4	221.1	207.2	196.0	188.3	185.2	185.6	185.6
25°	1909.2	1348.5	455.2	232.2	204.5	190.2	177.2	168.2	166.4	166.0	166.7
27.5°	1839.2	1215.3	362.4	204.5	184.8	171.4	158.3	150.9	149.4	149.8	150.2
30°	1770.2	1077.1	285.7	181.0	162.9	150.2	140.2	136.7	136.7	137.9	138.2
32.5°	1707.1	944.2	226.0	160.6	143.3	131.7	125.9	125.6	127.4	128.3	128.6
35°	1652.8	821.3	187.1	144.8	127.8	117.8	115.9	117.5	119.8	121.3	121.7
37.5°	1614.3	711.6	163.7	131.7	115.9	107.8	107.4	110.5	113.6	117.1	117.8
40°	1598.1	618.8	147.5	120.2	106.3	100.1	98.9	103.2	109.0	114.0	114.8
42.5°	1584.6	543.0	133.6	109.0	98.6	89.7	89.3	94.7	101.6	106.7	107.8
45°	1573.0	482.1	120.9	97.1	88.6	77.0	78.2	85.1	90.5	95.9	97.1
47.5°	1549.2	432.1	107.0	84.3	73.1	65.9	68.2	74.3	78.5	86.6	87.8
50°	1506.4	391.2	92.8	68.9	59.7	57.0	60.5	64.6	70.1	77.0	77.8
52.5°	1477.5	360.4	80.5	57.8	49.3	50.0	53.6	55.1	58.1	60.8	60.1
55°	1460.9	343.5	70.4	50.0	42.0	44.2	45.1	43.1	41.5	38.9	37.7
57.5°	1459.1	328.1	62.8	43.5	37.0	38.1	35.4	28.9	23.5	20.4	19.7
60°	1456.0	309.2	56.6	36.6	32.7	31.2	25.4	15.7	11.2	10.4	10.4
62.5°	1422.5	279.9	52.0	30.8	27.8	23.5	14.6	7.4	6.1	6.5	6.5
65°	1315.8	239.1	47.3	25.1	22.0	17.0	7.4	4.2	2.3	2.7	2.7
67.5°	1118.6	190.6	42.4	19.3	16.6	10.8	4.2	2.0	0.0	0.0	0.0
70°	749.0	118.2	35.8	13.5	10.8	6.5	3.1	0.4	0.0	0.0	0.0
72.5°	287.3	63.9	28.9	8.1	6.9	4.7	2.0	0.0	0.0	0.0	0.0
75°	64.6	42.0	20.0	5.8	5.0	3.1	0.7	0.0	0.0	0.0	0.0
77.5°	24.7	30.5	11.6	3.8	3.4	2.0	0.0	0.0	0.0	0.0	0.0
80°	11.9	18.1	5.4	2.3	2.0	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	6.1	6.9	2.3	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	3.4	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.1	0.4	0.4	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)