

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: P382993

Luminaire Tested: **GLEON-SA3C-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382993
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-SA3C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 16466 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

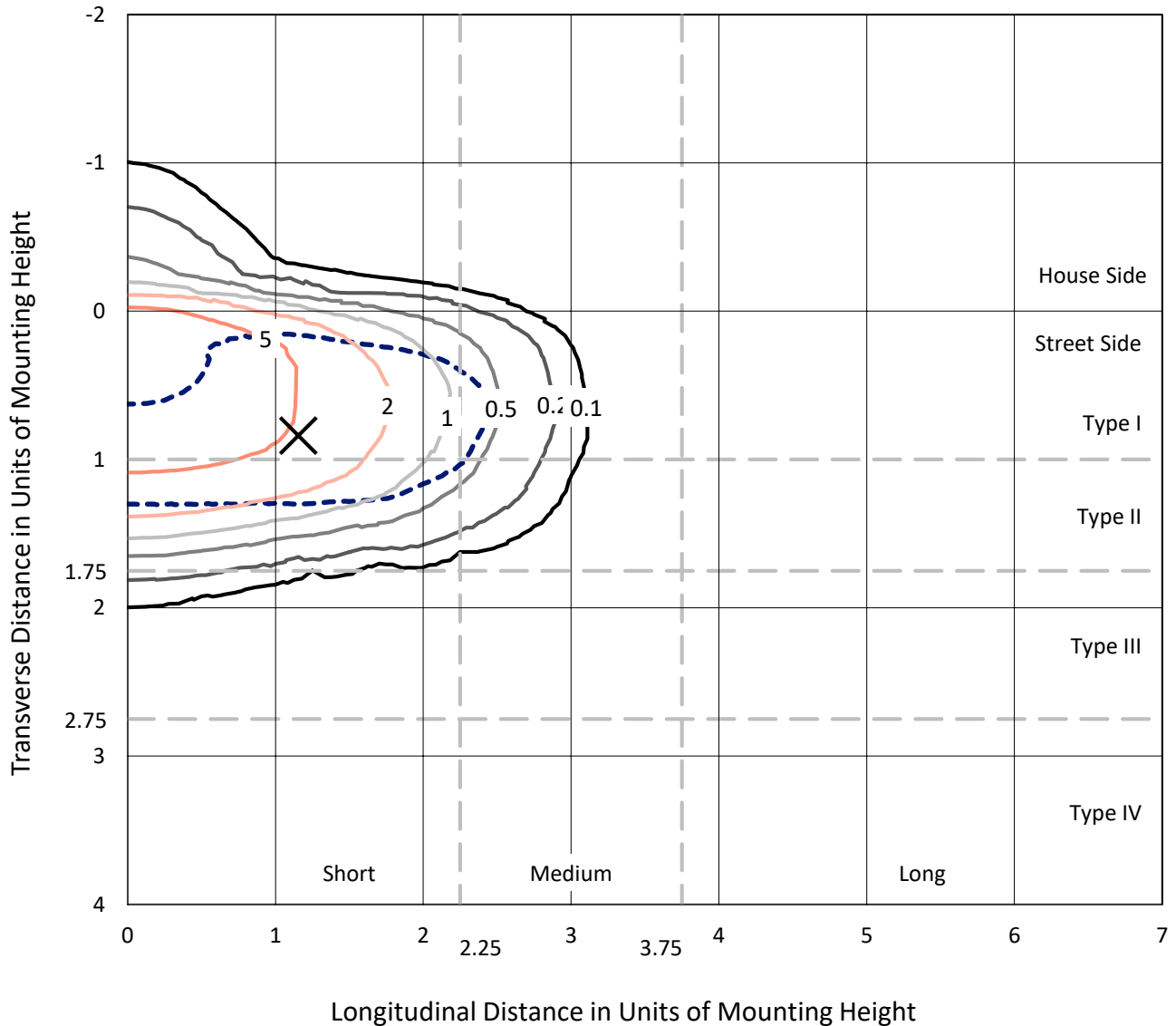
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

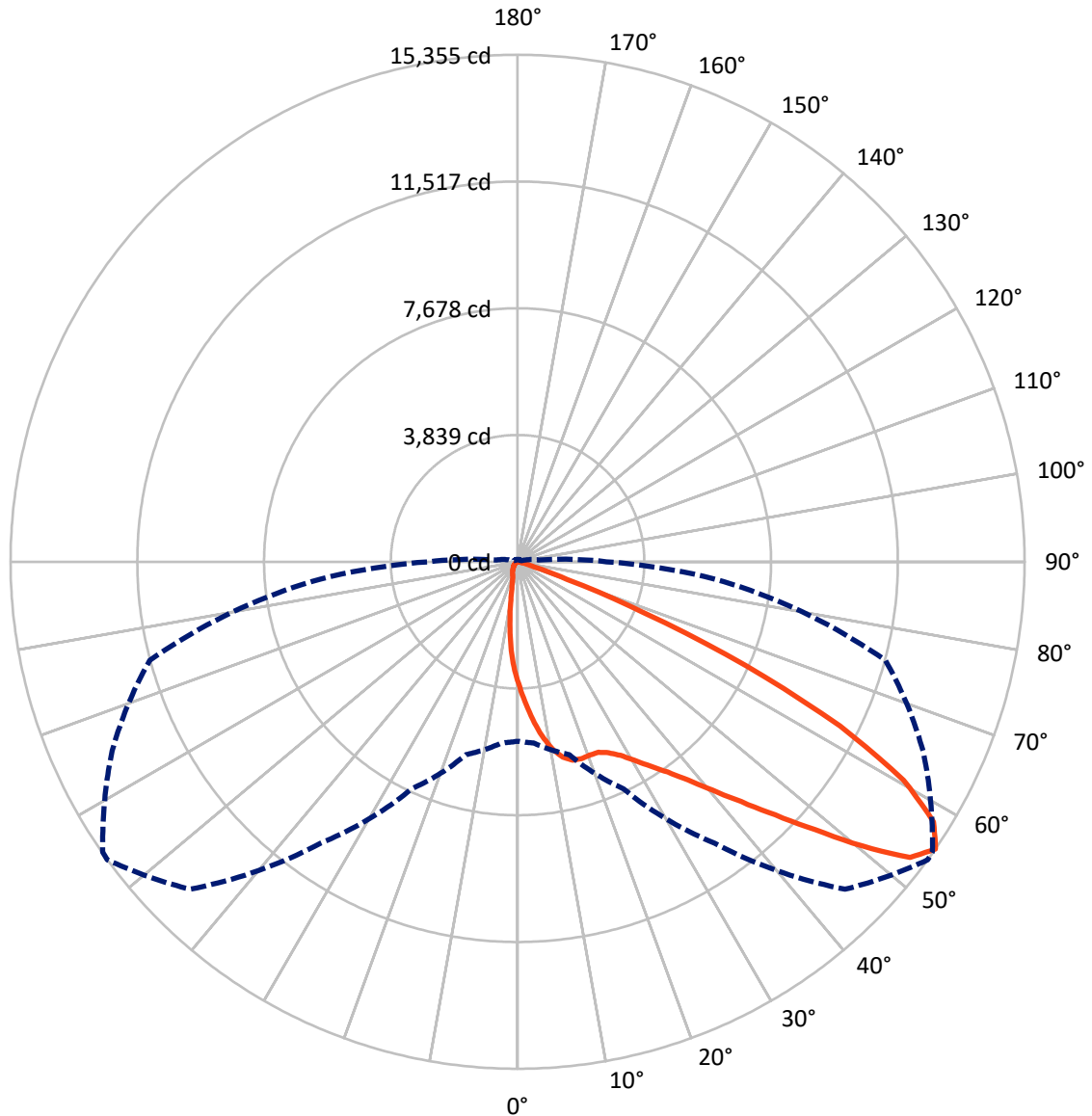
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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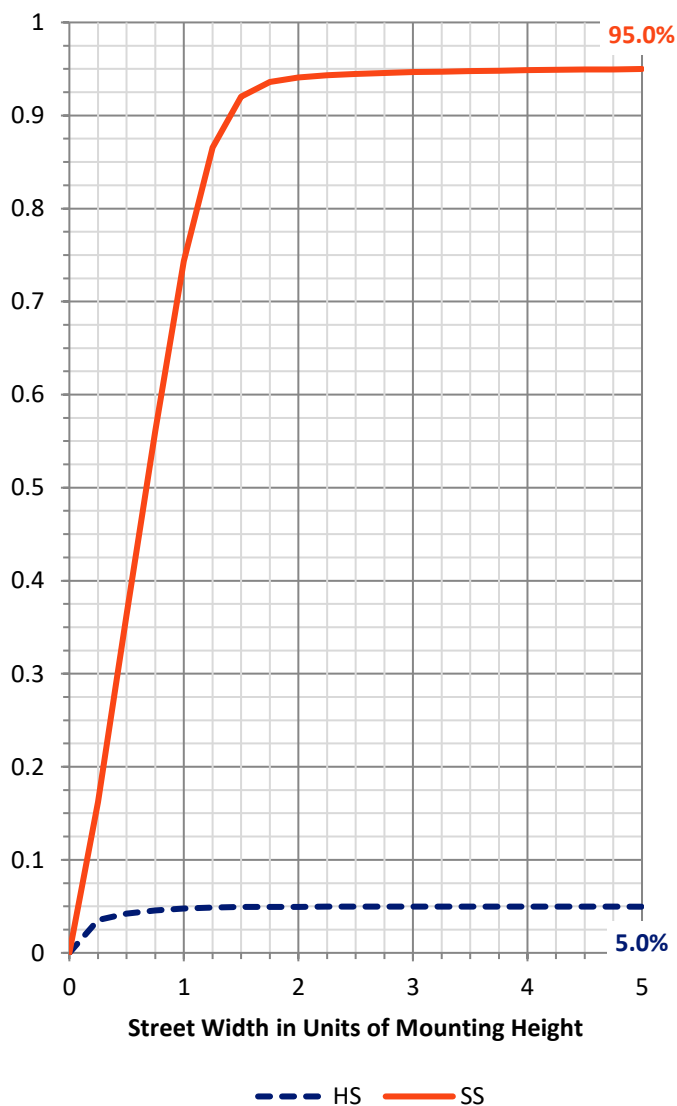
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	821.5	0.0	821.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	15644.5	0.0	15644.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	16466.0	0.0	16466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.6	2.1
10°-20°	931.4	5.7
20°-30°	1590.1	9.7
30°-40°	2551.9	15.5
40°-50°	4077.9	24.8
50°-60°	4369.6	26.5
60°-70°	2243.5	13.6
70°-80°	339.8	2.1
80°-90°	22.1	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°	16466.0	100.0
0°-180°	16466.0	100.0

Coefficient of Utilization

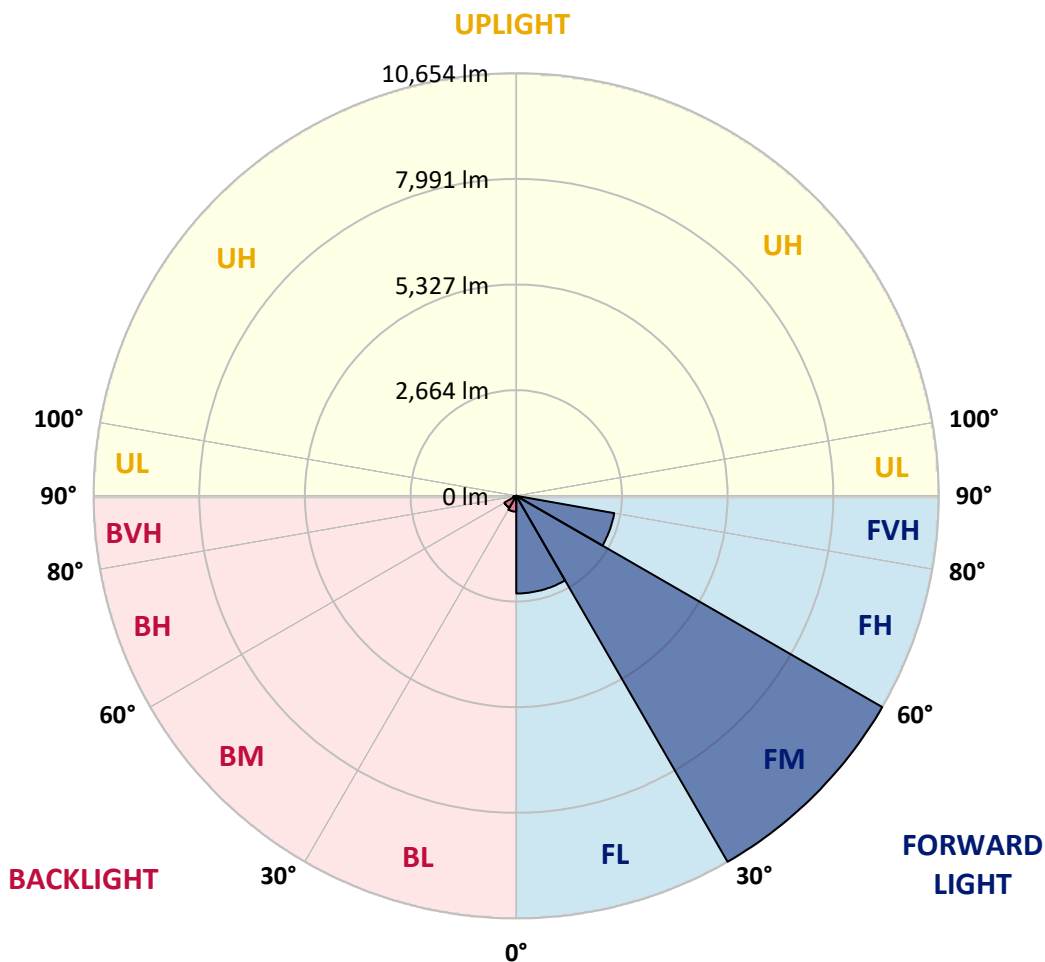


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2461.4	14.9			
FM (30°-60°)	10654.3	64.7			
FH (60°-80°)	2507.6	15.2			G2/5000
FVH (80°-90°)	21.2	0.1			G1/100
BL (0°-30°)	399.7	2.4	B1/500		
BM (30°-60°)	345.2	2.1	B1/1000		
BH (60°-80°)	75.7	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7
2.5°	4627.8	4558.8	4561.0	4529.7	4415.2	4325.5	4232.4	4210.4	4065.4	3913.2	3766.6
5°	5427.8	5377.3	5365.2	5304.8	5145.5	4977.0	4796.4	4754.3	4470.7	4159.2	3852.7
7.5°	5838.8	5839.5	5829.5	5807.5	5708.0	5544.4	5324.0	5279.8	4893.8	4426.5	3942.3
10°	5719.3	5746.3	5801.8	5875.1	5951.1	5930.5	5764.8	5725.0	5305.4	4709.5	4041.9
12.5°	5440.6	5444.2	5506.0	5626.2	5845.2	6069.9	6072.8	6059.3	5698.7	5005.4	4151.3
15°	5301.9	5315.4	5338.1	5415.6	5623.3	5983.1	6240.5	6259.7	6059.3	5319.7	4268.0
17.5°	5392.9	5412.1	5392.9	5402.1	5522.3	5845.9	6269.7	6318.8	6374.2	5630.5	4378.2
20°	5639.7	5657.5	5623.3	5585.7	5609.1	5806.1	6249.1	6315.2	6621.0	5906.4	4470.7
22.5°	5972.4	5979.6	5927.7	5865.8	5848.7	5941.2	6266.1	6334.4	6818.6	6155.9	4529.0
25°	6338.7	6345.1	6280.4	6209.2	6168.7	6206.4	6406.3	6457.4	6992.8	6394.1	4562.3
27.5°	6737.6	6743.3	6662.2	6574.8	6527.8	6529.2	6637.4	6692.1	7178.5	6665.8	4589.4
30°	7159.3	7156.4	7081.8	6960.2	6900.4	6899.0	6970.1	7025.6	7447.3	7014.2	4626.3
32.5°	7632.9	7627.2	7521.2	7370.5	7303.0	7312.9	7376.2	7408.1	7780.8	7385.4	4692.5
35°	8256.5	8240.2	8080.2	7893.1	7768.7	7765.1	7818.5	7844.1	8206.0	7834.9	4802.7
37.5°	9065.7	9050.8	8834.0	8562.3	8387.4	8321.9	8385.2	8417.9	8812.6	8411.5	4979.8
40°	9863.6	9848.6	9720.0	9471.0	9201.5	9044.4	9094.1	9129.0	9569.9	9111.3	5203.1
42.5°	10414.0	10426.7	10471.5	10492.2	10239.8	9909.8	9932.5	9968.9	10365.6	9859.3	5458.3
45°	10559.0	10586.8	10840.0	11336.9	11431.6	11174.1	10935.9	10955.8	11174.1	10607.3	5713.6
47.5°	10123.1	10174.4	10662.9	11587.2	12388.0	12570.0	12119.2	12092.9	11949.9	11212.5	5894.9
50°	9132.6	9179.5	9812.4	11179.8	12678.1	13902.6	13537.1	13459.6	12630.5	11574.5	5958.9
52.5°	7699.1	7755.9	8270.0	9897.0	12131.3	14497.0	14879.6	14815.0	13129.6	11602.9	5969.6
55°	5437.0	5506.0	6050.0	7585.2	10398.3	14024.2	15355.4	15336.2	13544.2	11527.5	5992.4
57.5°	3055.6	3105.3	3692.0	4862.5	7615.8	12215.2	14858.3	14985.6	13794.5	11396.7	6026.6
60°	1356.8	1370.3	1673.9	2420.5	4458.6	9335.2	13435.4	13650.2	13579.7	11221.8	6084.1
62.5°	752.3	741.0	741.0	1006.2	1937.7	5779.0	10955.8	11310.7	12663.2	11014.8	6086.9
65°	589.5	578.9	548.2	552.5	738.2	2564.9	7586.6	8217.4	10922.4	10408.3	5882.2
67.5°	499.9	490.6	460.1	448.0	458.7	846.2	4168.4	4823.4	8287.8	8831.8	5095.0
70°	422.4	416.0	400.4	385.4	358.4	418.1	1595.0	2040.1	5107.1	5875.1	3477.9
72.5°	339.9	337.0	342.7	330.0	297.3	278.7	545.4	660.6	2294.0	2621.8	1432.8
75°	293.0	291.6	294.4	281.6	244.6	194.1	277.3	302.9	647.1	641.4	290.1
77.5°	190.6	192.7	243.9	238.2	210.5	129.4	143.6	155.0	196.3	147.2	88.2
80°	121.6	120.2	123.7	197.7	189.2	98.8	71.8	75.4	94.6	72.6	42.7
82.5°	74.0	72.6	81.0	92.4	95.3	68.9	44.1	44.8	59.1	46.9	22.7
85°	6.4	8.6	49.1	45.6	32.7	21.3	21.3	22.7	31.3	27.8	12.8
87.5°	0.0	0.0	8.6	12.8	7.1	7.8	7.8	8.6	12.1	12.1	6.4
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°	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7	3687.7
2.5°	3690.6	3616.6	3467.3	3323.7	3202.0	3084.7	2951.0	2818.8	2756.9	2732.0	2706.4
5°	3696.9	3544.8	3236.9	2926.8	2605.4	2316.0	2069.2	1816.1	1689.5	1634.1	1608.5
7.5°	3705.5	3473.6	2975.9	2455.4	1937.7	1545.3	1202.4	982.0	886.7	871.8	834.9
10°	3706.9	3387.7	2673.0	1934.9	1299.1	931.5	716.8	603.0	561.1	553.9	541.9
12.5°	3709.8	3285.9	2336.7	1432.8	866.2	622.9	518.4	480.7	469.3	468.6	468.6
15°	3718.3	3179.3	1987.5	1032.5	622.2	493.5	455.1	440.2	435.9	438.0	437.4
17.5°	3718.3	3053.4	1644.7	769.4	502.8	443.7	422.4	412.4	411.0	413.1	413.9
20°	3691.3	2900.6	1330.4	598.7	445.8	411.7	392.6	383.2	379.7	381.2	381.8
22.5°	3626.6	2712.9	1074.4	495.7	408.2	382.6	361.9	347.7	342.1	342.7	342.7
25°	3525.6	2490.2	840.5	428.8	377.6	351.3	327.1	310.8	307.2	306.5	307.9
27.5°	3396.1	2244.2	669.1	377.6	341.3	316.4	292.2	278.7	275.9	276.6	277.3
30°	3268.9	1988.9	527.6	334.2	300.8	277.3	258.9	252.4	252.4	254.6	255.2
32.5°	3152.3	1743.6	417.4	296.5	264.6	243.2	232.5	231.9	235.4	236.8	237.5
35°	3052.0	1516.7	345.6	267.4	236.1	217.6	214.1	216.9	221.1	224.0	224.7
37.5°	2980.9	1314.1	302.2	243.2	214.1	199.1	198.4	204.1	209.8	216.2	217.6
40°	2951.0	1142.7	272.4	221.9	196.3	184.9	182.8	190.6	201.2	210.5	211.9
42.5°	2926.2	1002.6	246.8	201.2	182.0	165.7	165.0	174.9	187.7	196.9	199.1
45°	2904.8	890.3	223.3	179.2	163.6	142.2	144.4	157.2	167.1	177.1	179.2
47.5°	2860.7	797.9	197.7	155.8	135.1	121.6	125.9	137.2	145.0	160.0	162.1
50°	2781.8	722.5	171.4	127.2	110.2	105.3	111.6	119.4	129.4	142.2	143.6
52.5°	2728.5	665.6	148.6	106.7	91.0	92.4	98.8	101.7	107.4	112.3	110.9
55°	2697.9	634.3	130.1	92.4	77.5	81.8	83.2	79.6	76.8	71.8	69.7
57.5°	2694.3	605.9	115.9	80.4	68.3	70.4	65.4	53.4	43.4	37.7	36.2
60°	2688.6	571.0	104.5	67.5	60.5	57.6	46.9	29.2	20.6	19.2	19.2
62.5°	2626.8	517.0	96.0	56.9	51.2	43.4	27.0	13.5	11.4	12.1	12.1
65°	2429.8	441.6	87.5	46.2	40.5	31.3	13.5	7.8	4.3	4.9	4.9
67.5°	2065.7	352.0	78.2	35.6	30.6	19.9	7.8	3.5	0.0	0.0	0.0
70°	1383.1	218.3	66.1	24.9	19.9	12.1	5.7	0.7	0.0	0.0	0.0
72.5°	530.5	118.0	53.4	14.9	12.8	8.6	3.5	0.0	0.0	0.0	0.0
75°	119.4	77.5	37.0	10.7	9.2	5.7	1.4	0.0	0.0	0.0	0.0
77.5°	45.6	56.2	21.3	7.1	6.4	3.5	0.0	0.0	0.0	0.0	0.0
80°	22.1	33.4	10.0	4.3	3.5	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.4	12.8	4.3	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.4	6.4	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	2.1	0.7	0.7	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)