

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: P383077

Luminaire Tested: **GLEON-SA4B-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383077
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-SA4B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 17578.3 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

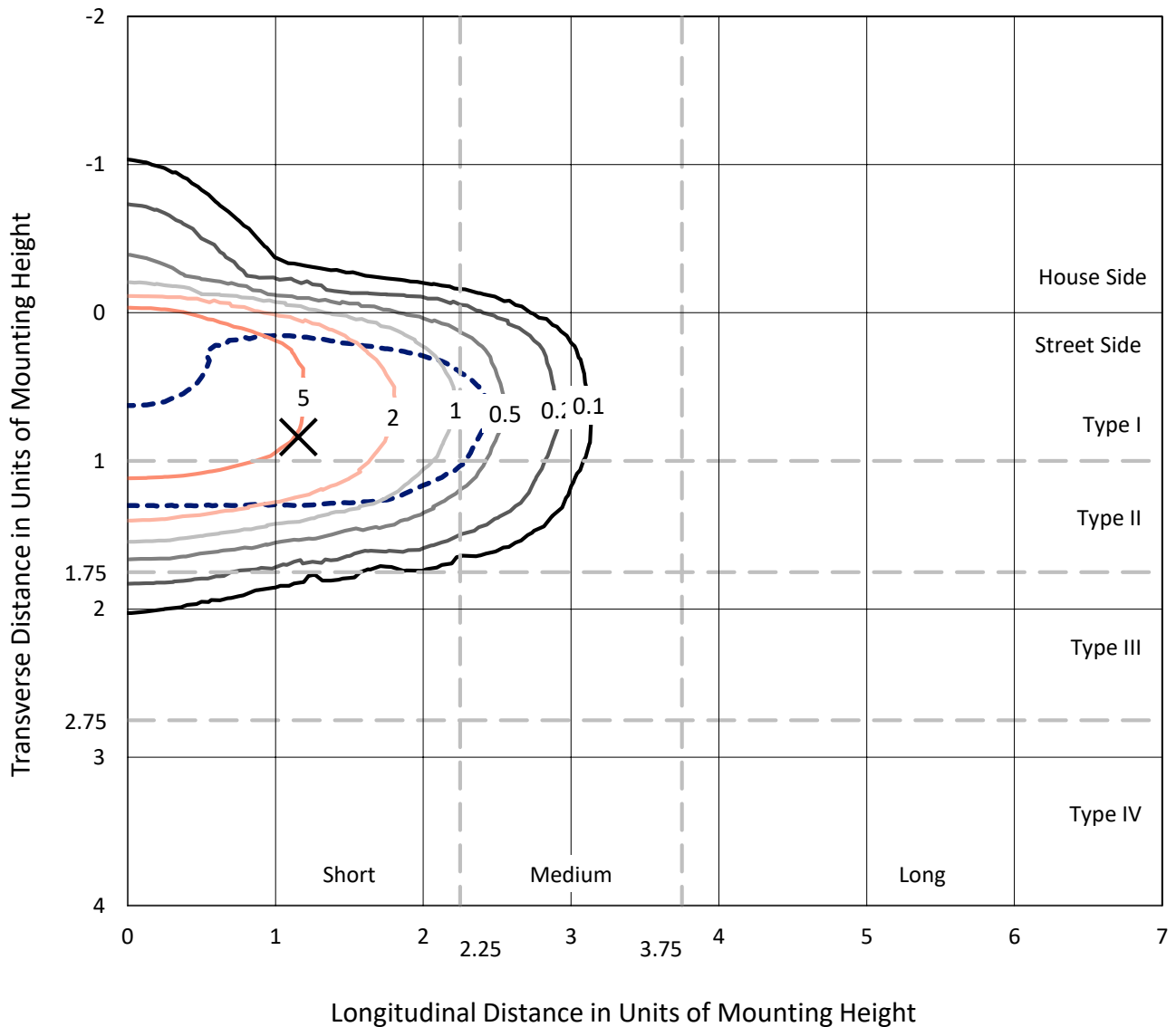
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

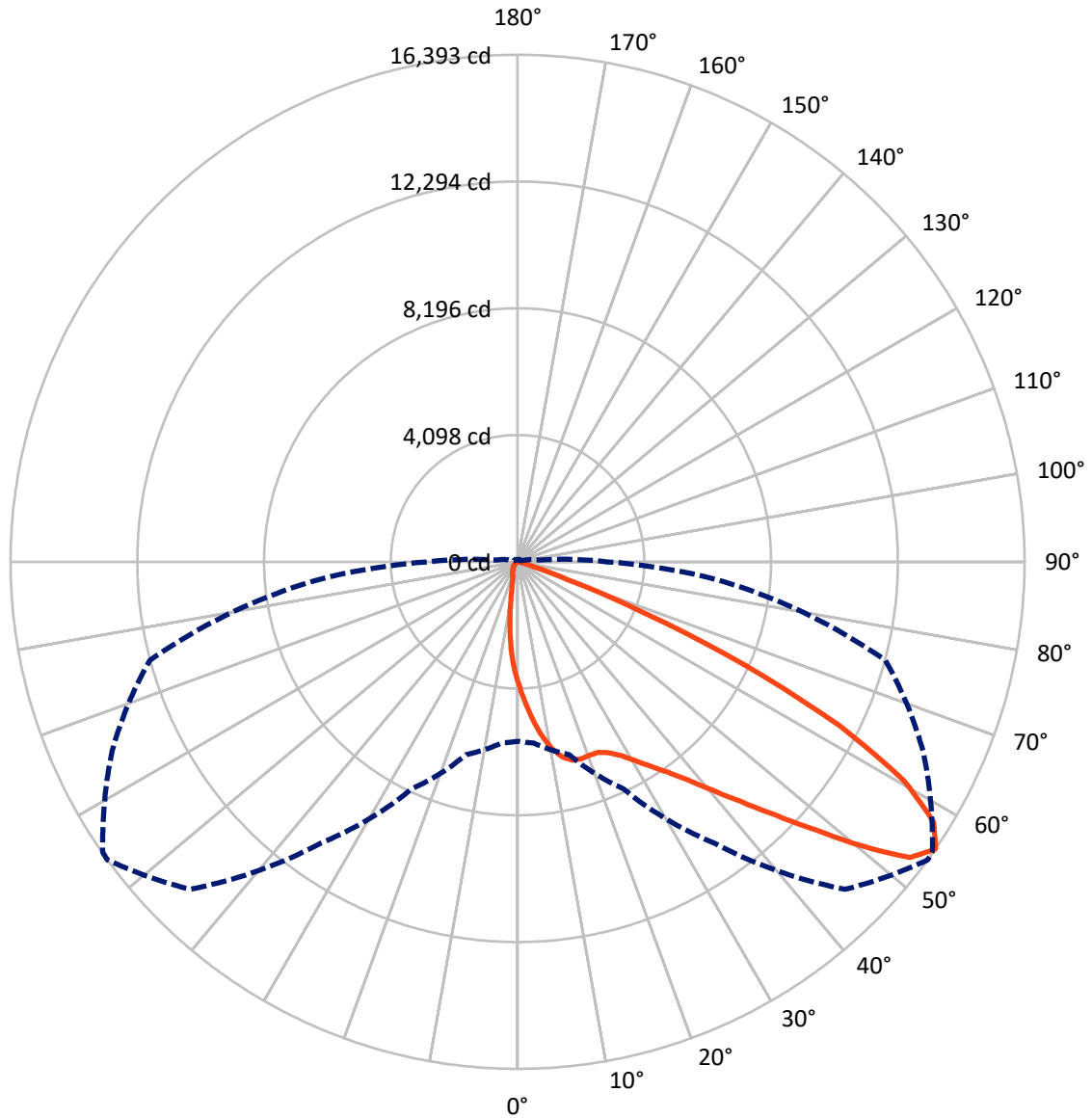
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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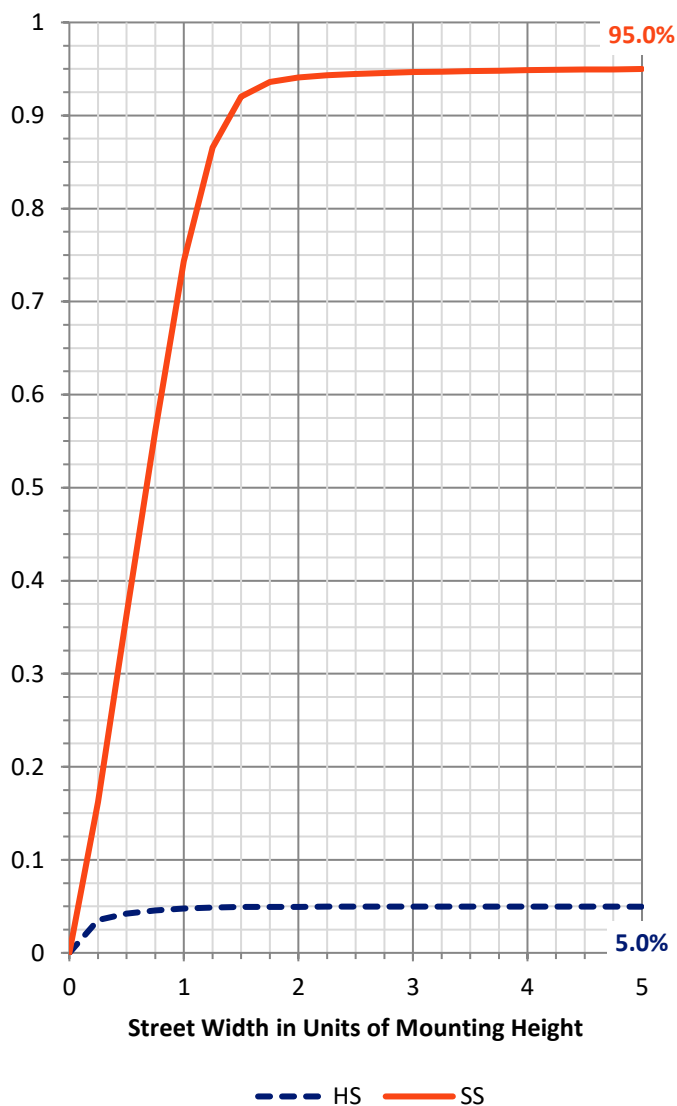
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	877.0	0.0	877.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16701.3	0.0	16701.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	17578.3	0.0	17578.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.5	2.1
10°-20°	994.3	5.7
20°-30°	1697.5	9.7
30°-40°	2724.3	15.5
40°-50°	4353.4	24.8
50°-60°	4664.8	26.5
60°-70°	2395.0	13.6
70°-80°	362.8	2.1
80°-90°	23.6	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°	17578.3	100.0
0°-180°	17578.3	100.0

Coefficient of Utilization

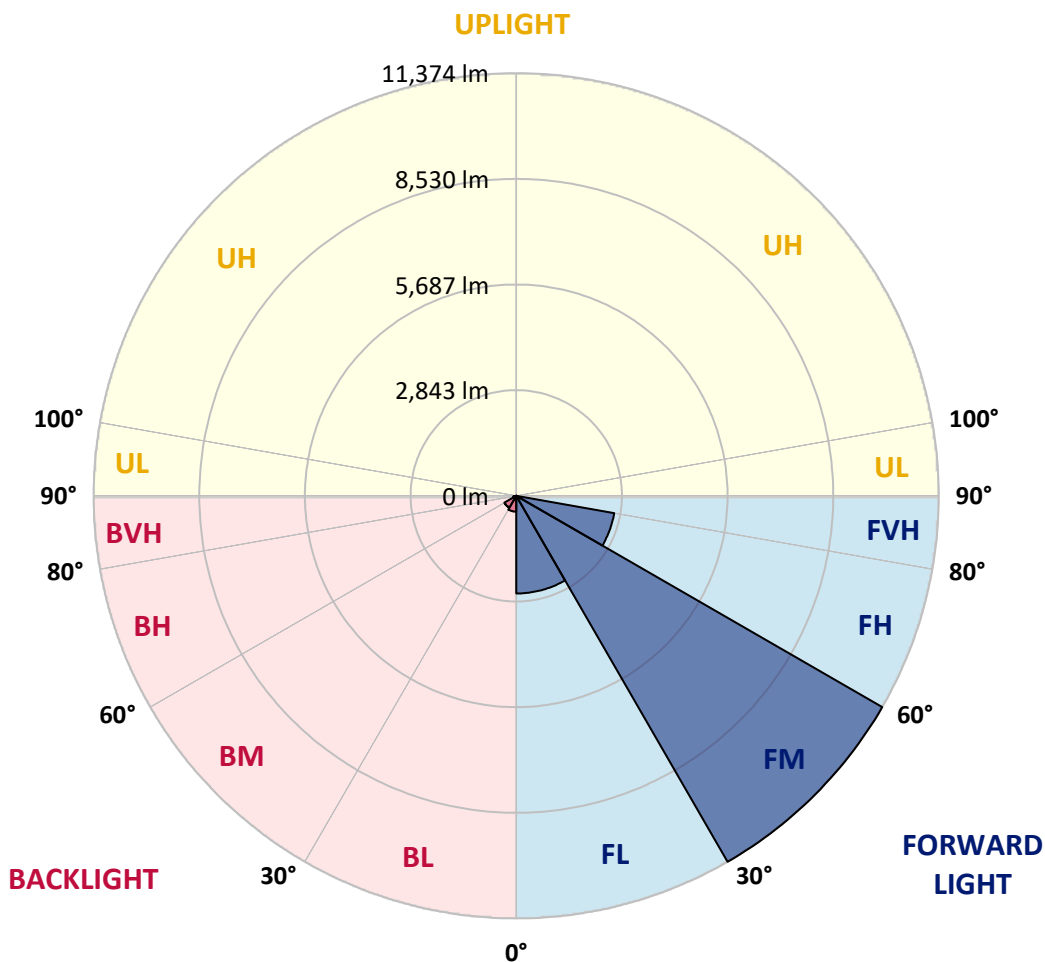


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2627.7	14.9			
FM (30°-60°)	11373.9	64.7			
FH (60°-80°)	2677.0	15.2			G2/5000
FVH (80°-90°)	22.7	0.1			G1/100
BL (0°-30°)	426.7	2.4	B1/500		
BM (30°-60°)	368.5	2.1	B1/1000		
BH (60°-80°)	80.8	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°	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8
2.5°	4940.4	4866.8	4869.0	4835.7	4713.4	4617.8	4518.3	4494.8	4339.9	4177.4	4021.1
5°	5794.4	5740.5	5727.6	5663.1	5493.1	5313.2	5120.3	5075.5	4772.6	4440.1	4113.0
7.5°	6233.2	6233.9	6223.3	6199.8	6093.5	5919.0	5683.6	5636.5	5224.3	4725.6	4208.6
10°	6105.6	6134.5	6193.7	6271.9	6353.2	6331.1	6154.3	6111.7	5663.8	5027.7	4314.8
12.5°	5808.1	5811.9	5877.9	6006.2	6240.1	6479.9	6482.9	6468.5	6083.7	5343.5	4431.7
15°	5660.1	5674.5	5698.7	5781.6	6003.2	6387.3	6662.1	6682.6	6468.5	5679.0	4556.3
17.5°	5757.2	5777.7	5757.2	5767.1	5895.4	6240.8	6693.3	6745.6	6804.9	6010.8	4673.9
20°	6020.7	6039.6	6003.2	5962.9	5988.0	6198.2	6671.2	6741.8	7068.2	6305.3	4772.6
22.5°	6375.9	6383.5	6328.1	6262.0	6243.8	6342.5	6689.4	6762.3	7279.3	6571.8	4834.9
25°	6766.9	6773.7	6704.6	6628.7	6585.4	6625.6	6839.0	6893.6	7465.2	6826.1	4870.6
27.5°	7192.8	7198.8	7112.3	7018.9	6968.8	6970.3	7085.7	7144.1	7663.4	7116.1	4899.4
30°	7642.9	7639.9	7560.2	7430.3	7366.6	7365.1	7440.9	7500.2	7950.4	7488.1	4938.9
32.5°	8148.4	8142.4	8029.3	7868.3	7796.2	7806.8	7874.5	7908.6	8306.3	7884.3	5009.5
35°	8814.2	8796.8	8625.9	8426.3	8293.5	8289.7	8346.6	8374.0	8760.4	8364.1	5127.1
37.5°	9678.1	9662.2	9430.6	9140.6	8953.9	8884.1	8951.6	8986.5	9407.9	8979.7	5316.2
40°	10529.8	10513.9	10376.5	10110.8	9823.1	9655.3	9708.5	9745.7	10216.4	9726.7	5554.5
42.5°	11117.5	11131.1	11178.9	11200.9	10931.4	10579.2	10603.5	10642.2	11065.8	10525.3	5827.0
45°	11272.3	11301.9	11572.2	12102.8	12203.7	11928.9	11674.6	11695.9	11928.9	11323.9	6099.6
47.5°	10807.0	10861.6	11383.1	12370.0	13224.7	13419.1	12937.8	12909.8	12757.2	11969.9	6293.2
50°	9749.5	9799.6	10475.2	11935.0	13534.5	14841.7	14451.5	14368.7	13483.6	12356.3	6361.4
52.5°	8219.0	8279.8	8828.6	10565.5	12950.7	15476.4	15884.7	15815.6	14016.5	12386.7	6372.9
55°	5804.3	5877.9	6458.7	8097.6	11100.7	14971.6	16392.6	16372.1	14459.1	12306.2	6397.1
57.5°	3262.0	3315.1	3941.4	5191.0	8130.3	13040.3	15861.9	15997.8	14726.3	12166.6	6433.6
60°	1448.4	1462.8	1787.0	2584.1	4759.7	9965.8	14342.9	14572.2	14497.0	11979.8	6495.1
62.5°	803.2	791.0	791.0	1074.2	2068.6	6169.5	11695.9	12074.7	13518.5	11758.9	6498.1
65°	629.4	617.9	585.3	589.9	788.0	2738.2	8099.2	8772.5	11660.2	11111.3	6279.5
67.5°	533.7	523.8	491.1	478.3	489.6	903.3	4450.0	5149.1	8847.7	9428.4	5439.1
70°	451.0	444.1	427.4	411.5	382.6	446.4	1702.7	2178.0	5452.1	6271.9	3712.9
72.5°	362.8	359.9	365.9	352.2	317.3	297.5	582.2	705.3	2448.9	2798.9	1529.6
75°	312.7	311.2	314.3	300.6	261.1	207.3	296.0	323.4	690.8	684.7	309.7
77.5°	203.4	205.7	260.4	254.3	224.7	138.1	153.3	165.5	209.5	157.2	94.1
80°	129.8	128.3	132.1	211.0	202.0	105.5	76.7	80.5	101.0	77.4	45.6
82.5°	79.0	77.4	86.5	98.7	101.7	73.6	47.0	47.8	63.0	50.1	24.3
85°	6.8	9.1	52.4	48.6	34.9	22.7	22.7	24.3	33.4	29.6	13.7
87.5°	0.0	0.0	9.1	13.7	7.5	8.4	8.4	9.1	12.9	12.9	6.8
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°	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8
2.5°	3939.9	3860.9	3701.5	3548.2	3418.3	3293.1	3150.4	3009.2	2943.1	2916.6	2889.2
5°	3946.7	3784.2	3455.6	3124.6	2781.4	2472.5	2209.1	1938.8	1803.7	1744.5	1717.1
7.5°	3955.8	3708.3	3176.9	2621.3	2068.6	1649.6	1283.7	1048.4	946.6	930.7	891.2
10°	3957.3	3616.5	2853.5	2065.6	1386.9	994.4	765.2	643.7	599.0	591.3	578.5
12.5°	3960.4	3507.9	2494.5	1529.6	924.7	665.0	553.4	513.2	501.0	500.2	500.2
15°	3969.5	3394.1	2121.8	1102.2	664.2	526.8	485.8	469.9	465.3	467.6	466.9
17.5°	3969.5	3259.7	1755.9	821.3	536.7	473.7	451.0	440.2	438.8	441.1	441.8
20°	3940.6	3096.5	1420.3	639.2	475.9	439.5	419.0	409.1	405.4	406.9	407.6
22.5°	3871.5	2896.1	1147.0	529.1	435.8	408.4	386.4	371.2	365.2	365.9	365.9
25°	3763.7	2658.5	897.3	457.8	403.1	375.0	349.2	331.7	327.9	327.2	328.7
27.5°	3625.6	2395.8	714.3	403.1	364.4	337.8	312.0	297.5	294.6	295.3	296.0
30°	3489.7	2123.3	563.3	356.8	321.1	296.0	276.3	269.5	269.5	271.7	272.6
32.5°	3365.2	1861.4	445.7	316.5	282.4	259.6	248.3	247.5	251.2	252.8	253.6
35°	3258.2	1619.2	368.9	285.4	252.1	232.3	228.5	231.5	236.1	239.1	239.9
37.5°	3182.3	1402.9	322.6	259.6	228.5	212.6	211.8	217.9	223.9	230.7	232.3
40°	3150.4	1220.0	290.7	236.9	209.5	197.4	195.1	203.4	214.8	224.7	226.2
42.5°	3123.9	1070.3	263.4	214.8	194.3	176.9	176.2	186.8	200.4	210.3	212.6
45°	3101.0	950.5	238.4	191.3	174.6	151.8	154.1	167.8	178.4	189.0	191.3
47.5°	3054.0	851.7	211.0	166.3	144.2	129.8	134.3	146.5	154.8	170.8	173.1
50°	2969.7	771.2	183.0	135.9	117.7	112.3	119.1	127.5	138.1	151.8	153.3
52.5°	2912.8	710.6	158.6	113.8	97.2	98.7	105.5	108.5	114.7	120.0	118.4
55°	2880.2	677.1	138.9	98.7	82.7	87.3	88.8	85.1	82.0	76.7	74.4
57.5°	2876.3	646.8	123.7	85.8	72.8	75.2	69.9	56.9	46.3	40.2	38.8
60°	2870.3	609.6	111.6	72.1	64.6	61.5	50.1	31.1	22.0	20.5	20.5
62.5°	2804.2	551.8	102.5	60.7	54.7	46.3	28.9	14.4	12.1	12.9	12.9
65°	2593.9	471.5	93.3	49.4	43.2	33.4	14.4	8.4	4.6	5.3	5.3
67.5°	2205.3	375.8	83.5	37.9	32.6	21.2	8.4	3.8	0.0	0.0	0.0
70°	1476.5	233.1	70.6	26.5	21.2	12.9	6.1	0.7	0.0	0.0	0.0
72.5°	566.3	126.0	56.9	15.9	13.7	9.1	3.8	0.0	0.0	0.0	0.0
75°	127.5	82.7	39.5	11.4	9.9	6.1	1.5	0.0	0.0	0.0	0.0
77.5°	48.6	60.0	22.7	7.5	6.8	3.8	0.0	0.0	0.0	0.0	0.0
80°	23.6	35.7	10.6	4.6	3.8	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	12.1	13.7	4.6	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.8	6.8	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	2.2	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)