

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: P459299

Luminaire Tested: **GALN-SA7D-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA 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: 41124 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

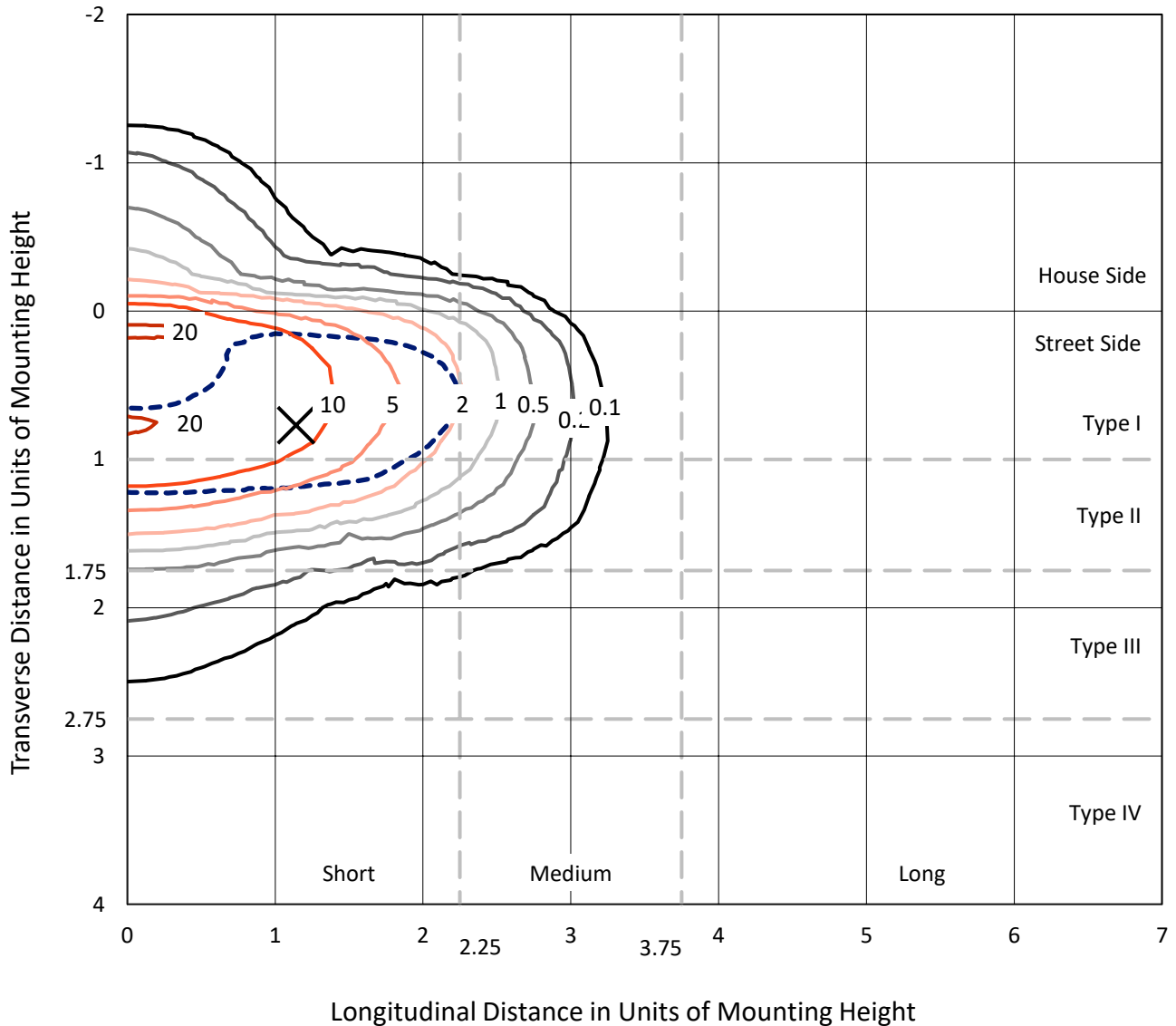
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

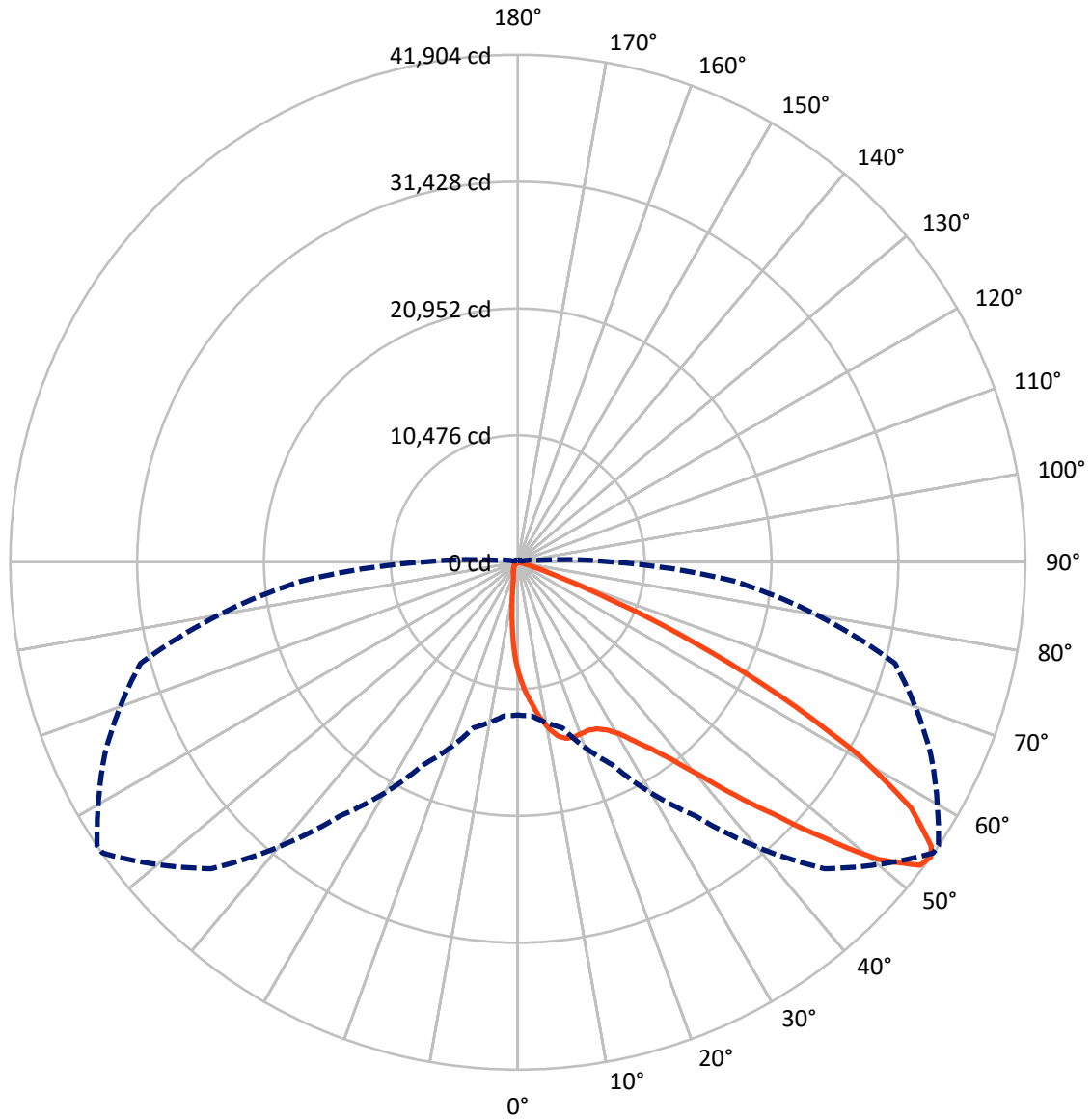
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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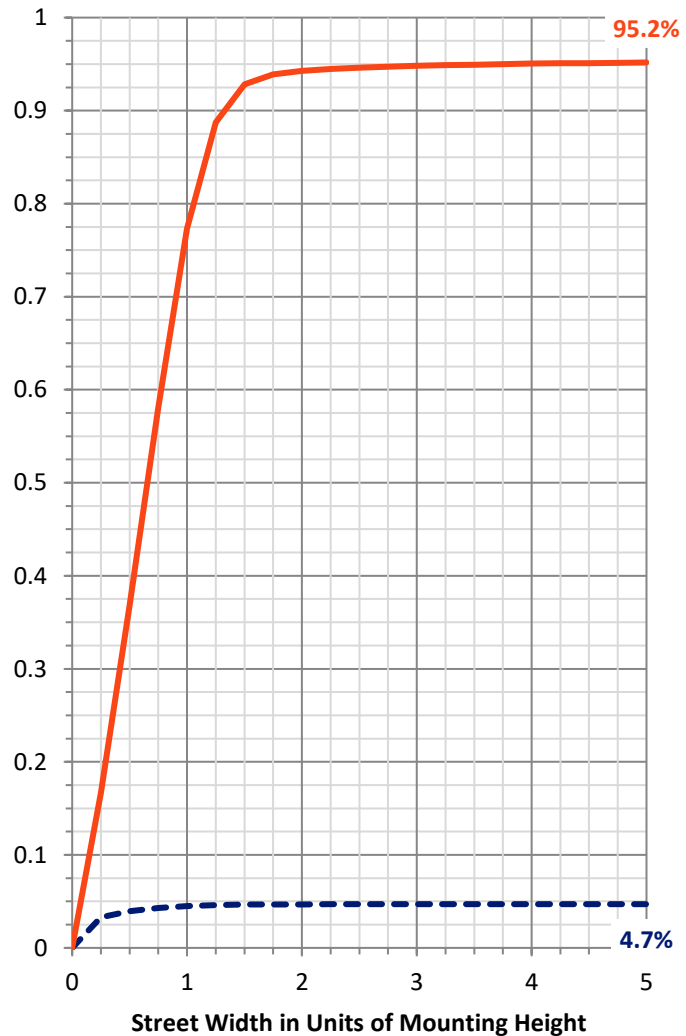
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1944.6	0.0	1944.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	39179.3	0.0	39179.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	41124.0	0.0	41124.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.4	2.0
10°-20°	2182.6	5.3
20°-30°	3780.0	9.2
30°-40°	6524.9	15.9
40°-50°	11105.7	27.0
50°-60°	10990.4	26.7
60°-70°	5016.3	12.2
70°-80°	644.2	1.6
80°-90°	72.6	0.2
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°	41124.0	100.0
0°-180°	41124.0	100.0



--- HS — SS

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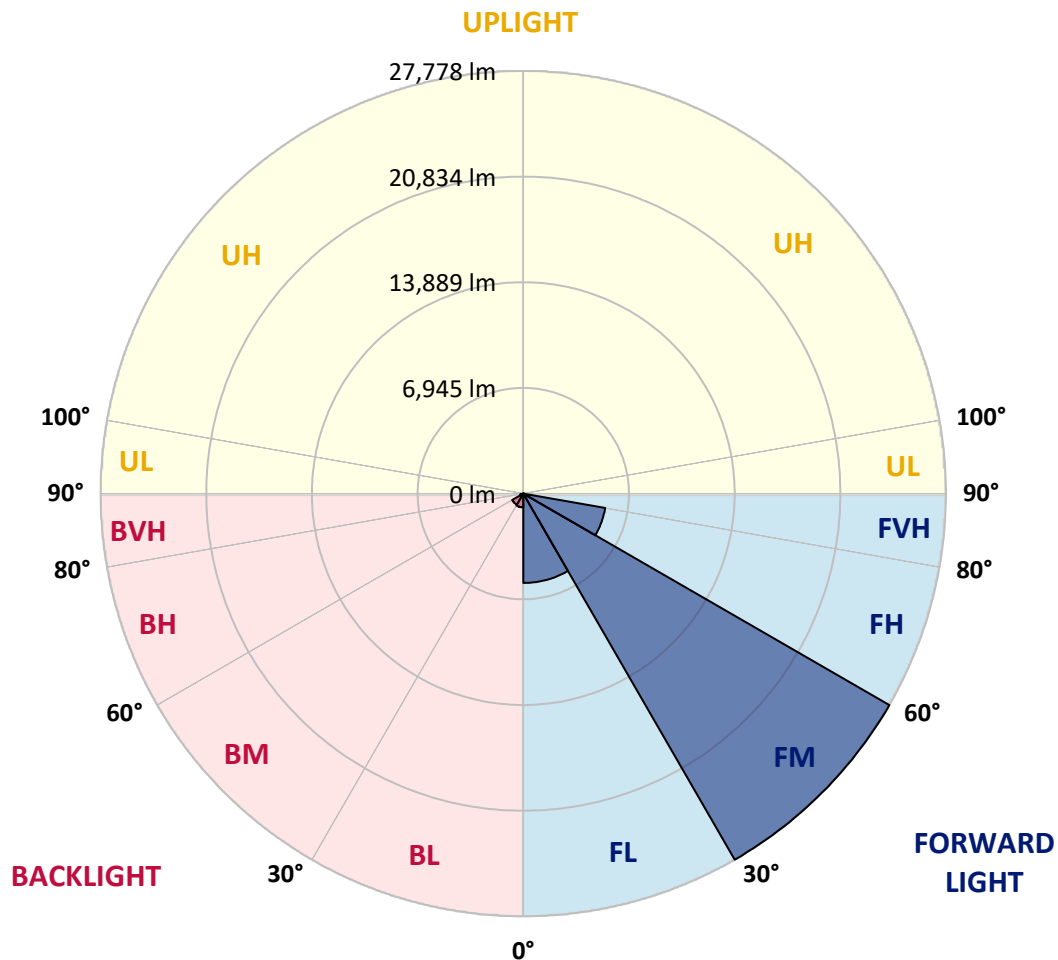
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5870.6	14.3			
FM	(30°-60°)	27778.2	67.5			
FH	(60°-80°)	5465.7	13.3			G3/7500
FVH	(80°-90°)	64.8	0.2			G1/100
BL	(0°-30°)	899.4	2.2	B2/1000		
BM	(30°-60°)	842.8	2.0	B1/1000		
BH	(60°-80°)	194.7	0.5	B1/500		G1/500
BVH	(80°-90°)	7.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6
2.5°	11611.5	11531.0	11420.0	11334.0	11131.5	10840.1	10532.2	10532.2	10235.3	9821.9	9400.2
5°	13392.7	13340.0	13231.8	13009.8	12782.3	12374.5	11755.7	11647.5	11117.6	10368.5	9580.5
7.5°	14116.9	14141.8	14147.4	14089.1	13980.9	13578.6	12965.4	12890.5	12044.3	11039.9	9816.3
10°	13423.2	13545.3	13664.6	13906.0	14247.3	14344.4	13997.6	13919.9	13087.5	11719.7	10071.6
12.5°	12391.1	12457.7	12524.3	12904.4	13589.7	14374.9	14738.4	14735.6	14030.9	12396.7	10396.2
15°	11911.1	11969.4	11974.9	12144.2	12737.9	13881.0	15054.7	15096.3	14952.0	13231.8	10745.8
17.5°	12011.0	12058.2	12019.3	12060.9	12371.7	13337.2	15018.6	15157.3	15698.4	14033.6	11062.1
20°	12663.0	12754.6	12604.7	12488.2	12582.6	13193.0	14896.5	15090.7	16225.5	14816.1	11350.7
22.5°	13833.9	13883.8	13695.1	13376.1	13209.6	13495.4	14863.2	15054.7	16675.0	15457.0	11517.1
25°	15135.1	15118.5	14910.4	14552.5	14202.9	14105.8	15082.4	15254.4	17046.8	16034.1	11567.1
27.5°	16436.4	16486.3	16136.7	15692.8	15273.9	15021.4	15573.5	15701.1	17465.7	16691.7	11628.1
30°	17948.5	17868.1	17524.0	17016.3	16536.3	16183.9	16364.3	16400.3	18042.9	17562.9	11789.0
32.5°	19915.7	19693.7	19308.0	18420.2	18076.1	17479.6	17524.0	17568.4	18744.8	18425.7	11983.3
35°	22584.8	22573.7	21819.0	20623.2	19785.3	19044.5	18850.2	18886.3	19807.5	19707.6	12413.3
37.5°	25797.7	25842.1	24982.0	23777.8	22235.2	21058.8	20659.2	20664.8	21422.2	21477.7	13068.1
40°	28414.1	28530.6	28017.3	27204.4	25681.2	23841.6	23170.2	23109.2	23691.8	23622.5	14003.1
42.5°	29540.6	29648.8	29840.2	30123.2	29285.3	27767.6	26183.4	26266.6	26444.2	25958.6	15051.9
45°	28988.4	29160.4	29912.3	31660.3	32448.3	31937.8	30048.3	29757.0	29005.1	28497.3	16106.2
47.5°	26688.3	27107.3	28364.2	31274.7	34032.5	35758.3	34409.9	34024.2	31568.8	30350.7	16777.7
50°	22906.6	22931.6	24682.3	28403.0	33211.3	38169.4	38863.0	38574.5	33957.6	31391.2	17116.2
52.5°	16605.6	17152.2	18755.9	23064.8	29654.3	37803.2	41701.4	41582.1	36421.4	31923.9	17604.5
54°	12624.2	12729.6	14155.7	18431.3	25567.4	35791.6	41876.2	41903.9	37645.0	32245.7	17893.0
55°	10349.0	10096.6	11594.8	15701.1	22779.0	34013.1	41304.6	41437.8	38194.4	32412.2	18106.7
57.5°	4905.4	4908.2	6054.1	8282.0	14266.7	26410.9	37811.5	38283.1	38255.4	32698.0	18764.2
60°	2483.2	2499.9	2752.3	3823.3	7047.3	17557.3	31263.6	32387.2	35311.6	32739.6	18980.6
62.5°	1736.9	1717.4	1675.8	1839.5	2966.0	8922.9	23275.6	24252.3	30001.1	31155.3	18292.6
65°	1487.2	1445.5	1329.0	1304.0	1498.3	3554.2	14497.0	16089.6	22906.6	26976.9	16333.7
67.5°	1270.7	1254.1	1148.7	1084.8	1059.9	1548.2	7480.2	8318.1	15656.7	19391.3	12371.7
70°	1079.3	1071.0	1007.2	926.7	857.3	926.7	2774.5	3437.7	8725.9	10440.6	5837.6
72.5°	876.8	885.1	896.2	793.5	721.4	657.6	1184.7	1378.9	3651.3	3731.8	2042.1
75°	768.5	760.2	760.2	690.9	602.1	488.3	652.0	702.0	1118.1	1037.7	474.4
77.5°	541.0	521.6	610.4	568.8	502.2	346.8	371.8	394.0	463.3	396.8	222.0
80°	374.6	374.6	391.2	510.5	452.3	252.5	227.5	244.2	274.7	235.8	127.6
82.5°	210.9	216.4	255.3	271.9	263.6	169.2	149.8	152.6	183.1	160.9	80.5
85°	25.0	41.6	147.1	144.3	108.2	74.9	83.2	86.0	113.8	99.9	47.2
87.5°	2.8	5.5	30.5	38.8	27.7	30.5	30.5	30.5	38.8	44.4	33.3
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°	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6	9136.6
2.5°	9172.6	8961.8	8459.6	7876.9	7505.1	6900.3	6389.8	6020.8	5929.2	5751.6	5804.3
5°	9161.5	8723.2	7699.4	6617.3	5463.1	4603.0	3962.0	3457.1	3235.1	3088.1	2985.4
7.5°	9167.1	8481.8	6839.2	5116.3	3737.3	2893.8	2300.1	1992.1	1786.8	1700.8	1711.9
10°	9183.7	8209.9	5840.4	3790.0	2522.1	1870.0	1506.6	1359.5	1290.2	1279.1	1276.3
12.5°	9222.6	7913.0	4886.0	2813.4	1764.6	1359.5	1220.8	1170.9	1148.7	1148.7	1140.3
15°	9264.2	7585.6	4092.5	2092.0	1359.5	1168.1	1104.3	1079.3	1065.4	1065.4	1062.7
17.5°	9264.2	7208.3	3351.6	1623.1	1170.9	1073.7	1023.8	990.5	979.4	979.4	976.6
20°	9205.9	6769.9	2694.1	1306.8	1062.7	985.0	935.0	899.0	885.1	879.5	876.8
22.5°	9003.4	6184.5	2144.7	1123.7	973.9	907.3	843.5	801.8	790.7	785.2	788.0
25°	8642.7	5524.1	1698.0	987.7	893.4	812.9	757.5	726.9	715.8	715.8	718.6
27.5°	8270.9	4833.3	1345.7	885.1	796.3	724.2	679.8	660.3	657.6	665.9	668.7
30°	7926.9	4139.6	1090.4	801.8	710.3	649.2	618.7	613.2	613.2	615.9	618.7
32.5°	7544.0	3532.0	912.8	729.7	640.9	588.2	571.6	571.6	577.1	577.1	582.7
35°	7302.6	3010.4	801.8	660.3	588.2	543.8	532.7	535.5	543.8	554.9	560.5
37.5°	7172.2	2594.2	729.7	604.9	538.3	507.7	496.6	502.2	521.6	541.0	543.8
40°	7183.3	2280.7	671.4	557.7	499.4	466.1	457.8	474.4	493.9	513.3	516.1
42.5°	7305.4	2047.6	615.9	502.2	466.1	419.0	416.2	432.8	441.2	460.6	463.3
45°	7449.6	1878.4	557.7	443.9	405.1	363.5	366.2	380.1	391.2	421.7	427.3
47.5°	7494.0	1761.8	491.1	377.3	332.9	319.1	321.8	330.2	352.4	380.1	382.9
50°	7544.0	1689.7	427.3	319.1	283.0	280.2	283.0	288.6	302.4	313.5	310.7
52.5°	7757.6	1686.9	374.6	277.5	241.4	246.9	249.7	246.9	235.8	219.2	213.6
54°	7957.4	1695.2	349.6	258.0	222.0	230.3	227.5	213.6	185.9	169.2	160.9
55°	8118.3	1703.6	335.7	244.2	210.9	213.6	216.4	188.7	152.6	136.0	130.4
57.5°	8434.6	1684.1	302.4	213.6	185.9	174.8	172.0	124.9	83.2	72.1	66.6
60°	8276.5	1520.4	274.7	183.1	158.1	141.5	116.5	69.4	41.6	30.5	30.5
62.5°	7655.0	1290.2	244.2	149.8	130.4	108.2	61.0	38.8	19.4	11.1	8.3
65°	6847.6	1084.8	219.2	119.3	102.7	69.4	33.3	25.0	8.3	0.0	0.0
67.5°	5091.3	804.6	185.9	94.3	77.7	44.4	22.2	13.9	2.8	0.0	0.0
70°	2358.4	491.1	158.1	72.1	55.5	33.3	16.6	8.3	0.0	0.0	0.0
72.5°	677.0	308.0	130.4	52.7	38.8	27.7	13.9	5.5	2.8	0.0	0.0
75°	235.8	246.9	97.1	38.8	30.5	19.4	11.1	5.5	2.8	0.0	0.0
77.5°	141.5	199.8	61.0	33.3	25.0	16.6	11.1	5.5	2.8	2.8	0.0
80°	80.5	133.2	38.8	27.7	22.2	13.9	8.3	5.5	2.8	2.8	0.0
82.5°	44.4	63.8	30.5	25.0	19.4	13.9	8.3	5.5	2.8	2.8	2.8
85°	36.1	33.3	25.0	22.2	16.6	11.1	8.3	2.8	0.0	0.0	0.0
87.5°	27.7	22.2	22.2	22.2	16.6	11.1	8.3	2.8	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)