

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: P529787

Luminaire Tested: **GALN-SA5A-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14287 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

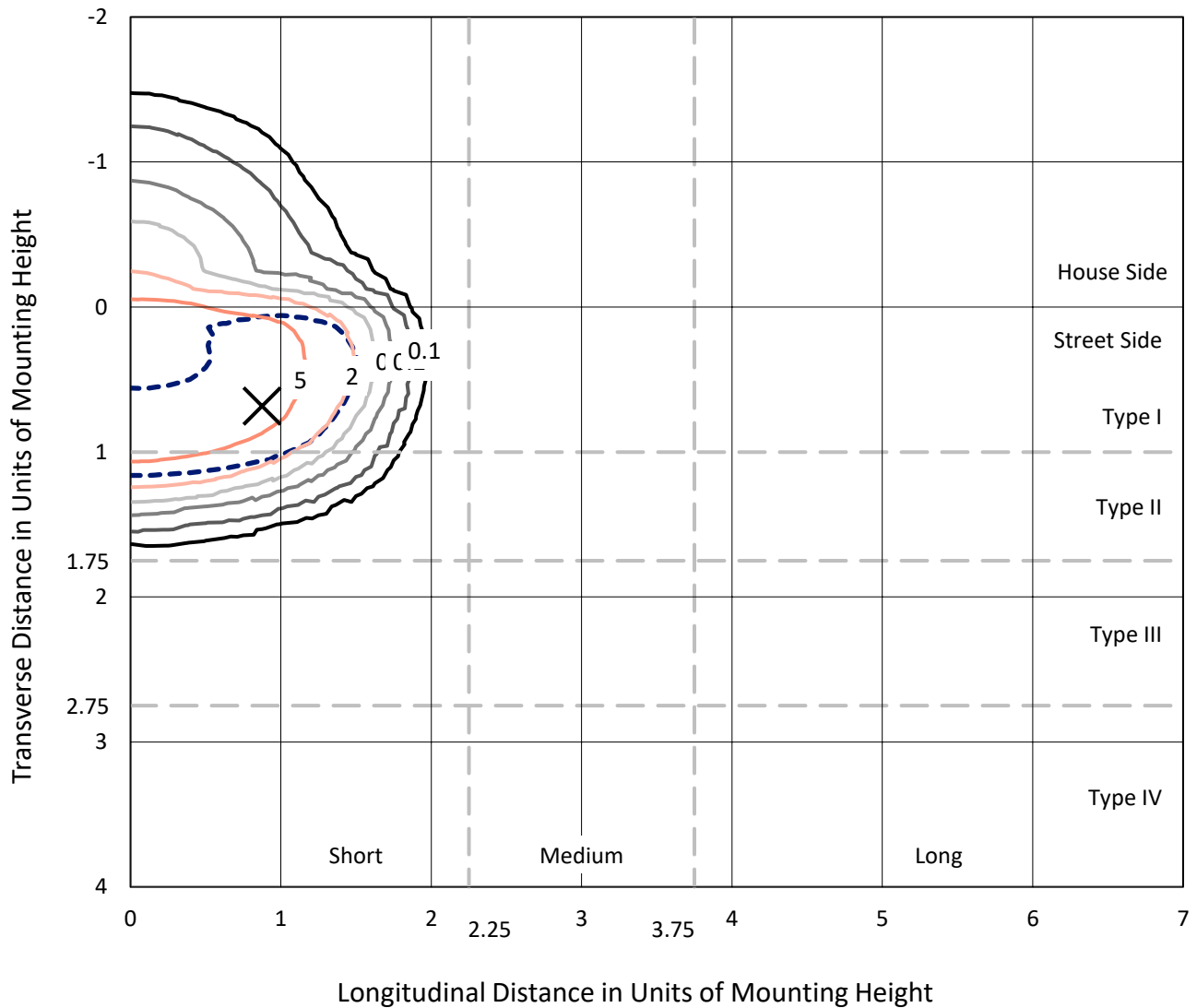
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

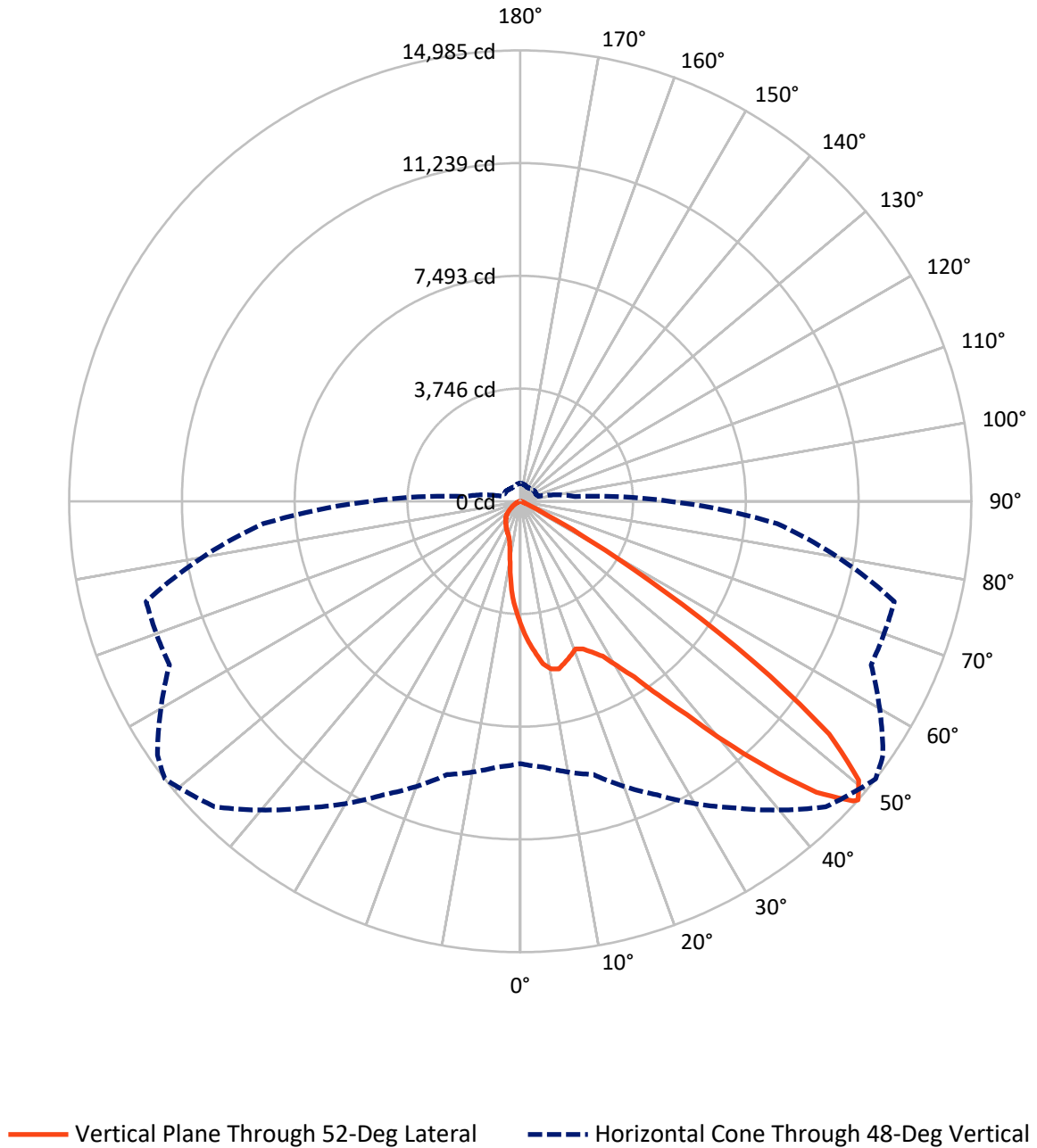
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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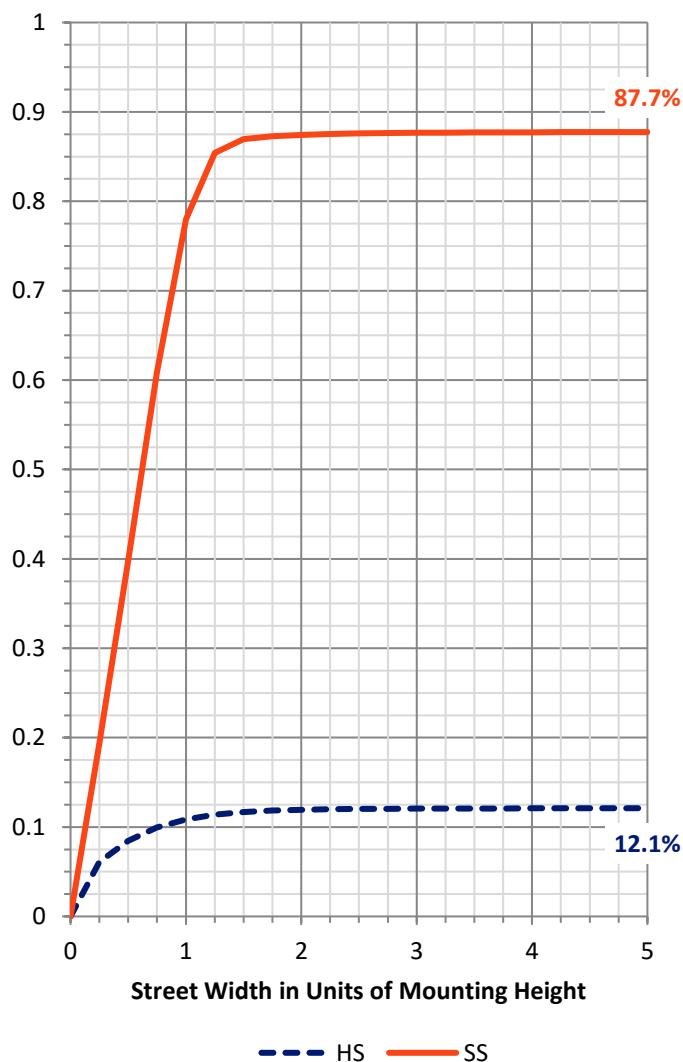
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1739.6	0.0	1739.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12547.4	0.0	12547.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	14287.0	0.0	14287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.6	2.6
10°-20°	986.9	6.9
20°-30°	1685.0	11.8
30°-40°	3103.0	21.7
40°-50°	4818.9	33.7
50°-60°	2900.2	20.3
60°-70°	335.4	2.3
70°-80°	64.9	0.5
80°-90°	15.0	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°	14287.0	100.0
0°-180°	14287.0	100.0

Coefficient of Utilization



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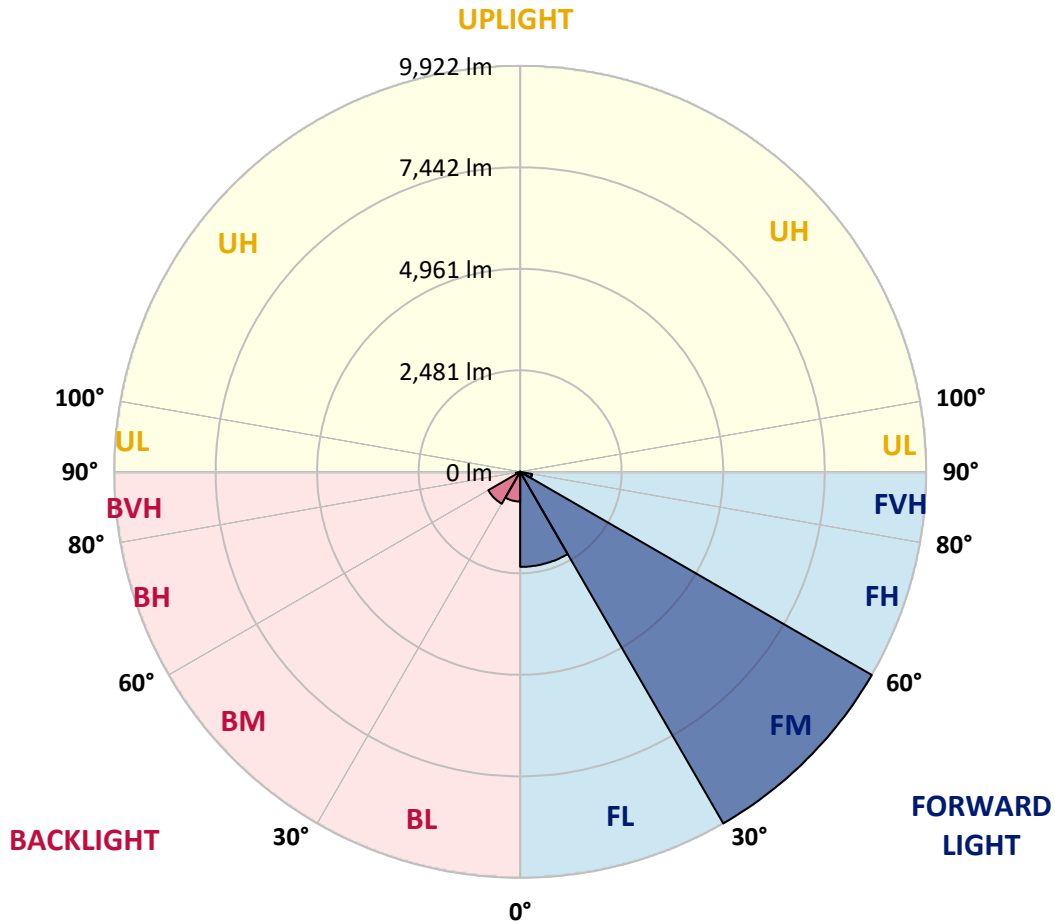
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2322.9	16.3			
FM (30°-60°)	9922.0	69.4			
FH (60°-80°)	295.4	2.1			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	726.7	5.1	B2/1000		
BM (30°-60°)	900.0	6.3	B1/1000		
BH (60°-80°)	105.0	0.7	B0/110		G0/110
BVH (80°-90°)	7.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8
2.5°	5000.6	4886.0	4896.5	4821.5	4777.7	4706.9	4611.1	4592.4	4488.2	4346.6	4202.9
5°	5450.5	5423.4	5458.8	5350.5	5354.6	5238.0	5013.1	5017.2	4777.7	4546.6	4323.7
7.5°	5479.6	5417.1	5452.5	5548.3	5604.6	5583.7	5456.7	5346.3	5119.3	4779.8	4454.9
10°	4906.9	5025.6	5063.1	5221.4	5446.3	5683.7	5669.1	5675.4	5485.9	5042.2	4567.4
12.5°	4563.2	4484.1	4611.1	4706.9	5046.4	5506.7	5717.0	5762.9	5777.4	5296.3	4679.8
15°	4407.0	4407.0	4427.8	4454.9	4700.7	5125.5	5554.6	5687.9	6002.4	5629.6	4856.9
17.5°	4504.9	4500.7	4529.9	4473.7	4565.3	4892.3	5404.6	5556.7	6254.4	5956.6	4996.4
20°	4802.7	4817.3	4798.6	4636.1	4642.4	4888.1	5238.0	5477.5	6425.2	6239.8	5181.8
22.5°	5217.2	5225.5	5119.3	4942.3	4890.2	5011.0	5333.8	5517.1	6562.6	6579.3	5238.0
25°	5696.2	5662.9	5642.1	5392.1	5233.8	5338.0	5550.4	5656.6	6648.0	6870.9	5398.4
27.5°	6360.6	6293.9	6166.9	5944.1	5827.4	5679.5	5831.6	6006.5	6891.7	7279.1	5573.3
30°	7341.6	7283.2	7035.4	6748.0	6441.8	6296.0	6343.9	6439.7	7331.1	7751.8	5804.5
32.5°	8818.2	8695.3	8337.1	7789.3	7372.8	6970.8	6958.3	7060.4	7724.8	8405.8	6079.4
35°	10444.8	10407.3	9880.4	9316.0	8510.0	7889.3	7899.7	7953.9	8478.7	9263.9	6439.7
37.5°	11525.7	11731.9	11396.6	10790.5	10113.6	9226.4	9001.5	9020.2	9513.8	10280.3	7089.5
40°	12360.9	12185.9	12225.5	12083.9	11621.5	11017.5	10519.8	10421.9	10711.4	11404.9	7735.2
42.5°	11996.4	12004.7	12248.4	12583.7	12698.3	12654.5	12146.4	11961.0	11736.1	12325.5	8349.6
45°	10967.6	11182.1	11498.6	12385.9	13164.8	13895.8	13795.9	13487.6	12444.2	13054.4	8703.6
47.5°	9326.4	9318.0	9836.6	10990.5	12721.2	14433.2	14887.2	14670.6	12946.1	12973.2	8630.7
48°	8720.3	8870.3	9405.5	10763.4	12440.0	14354.0	14985.1	14712.3	12860.7	12864.9	8568.3
50°	6446.0	6418.9	7085.4	8751.5	11111.3	13487.6	14572.7	14785.2	12858.7	12317.1	8130.9
52.5°	3405.2	3521.9	4007.1	5502.5	7856.0	11038.4	12854.5	13185.6	12404.6	11421.6	7501.9
55°	1447.5	1307.9	1680.7	2484.7	4419.5	7374.9	9430.5	10167.8	10488.5	10107.4	6562.6
57.5°	516.5	564.4	649.8	935.1	1857.8	4036.3	5623.3	6196.1	7266.6	7416.5	4471.6
60°	331.2	337.4	364.5	429.0	697.7	1555.8	2668.0	3124.1	3609.3	3726.0	2086.9
62.5°	256.2	258.3	270.8	281.2	331.2	604.0	1001.8	1187.1	1233.0	1060.1	547.8
65°	214.5	216.6	220.8	220.8	235.3	283.2	349.9	385.3	374.9	370.7	310.3
67.5°	164.5	168.7	177.0	177.0	185.4	172.9	193.7	206.2	233.3	283.2	264.5
70°	129.1	131.2	137.5	141.6	141.6	125.0	139.5	152.0	170.8	210.4	208.3
72.5°	100.0	104.1	108.3	108.3	102.1	85.4	100.0	110.4	122.9	145.8	141.6
75°	77.1	77.1	79.1	64.6	50.0	43.7	60.4	72.9	91.6	95.8	79.1
77.5°	20.8	22.9	20.8	18.7	20.8	31.2	39.6	45.8	58.3	58.3	52.1
80°	0.0	2.1	6.2	12.5	20.8	29.2	35.4	39.6	45.8	50.0	47.9
82.5°	0.0	2.1	6.2	12.5	18.7	22.9	31.2	33.3	37.5	43.7	43.7
85°	0.0	2.1	4.2	8.3	12.5	14.6	14.6	12.5	12.5	10.4	8.3
87.5°	0.0	0.0	2.1	4.2	4.2	6.2	6.2	6.2	6.2	6.2	6.2
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°	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8	4125.8
2.5°	4146.7	4082.1	3984.2	3830.1	3682.2	3586.4	3494.8	3392.7	3336.5	3332.3	3301.1
5°	4196.7	4050.9	3817.6	3553.1	3269.9	3026.2	2780.4	2620.0	2476.3	2397.2	2382.6
7.5°	4223.7	4034.2	3657.2	3213.6	2730.4	2332.6	2057.7	1855.7	1776.6	1718.2	1716.2
10°	4280.0	4005.1	3417.7	2763.8	2166.0	1764.1	1574.5	1482.9	1439.2	1422.5	1397.5
12.5°	4321.6	3950.9	3172.0	2301.4	1712.0	1462.1	1378.8	1357.9	1360.0	1368.3	1357.9
15°	4379.9	3903.0	2840.8	1889.0	1437.1	1316.3	1316.3	1320.4	1349.6	1353.8	1351.7
17.5°	4375.8	3809.3	2499.3	1555.8	1270.5	1253.8	1260.0	1299.6	1318.4	1324.6	1310.0
20°	4425.8	3721.8	2147.3	1328.8	1176.7	1201.7	1243.4	1253.8	1276.7	1280.9	1264.2
22.5°	4411.2	3503.1	1820.3	1149.7	1105.9	1153.8	1195.5	1208.0	1201.7	1189.2	1187.1
25°	4384.1	3315.7	1520.4	1030.9	1053.9	1105.9	1145.5	1122.6	1110.1	1112.2	1114.2
27.5°	4336.2	3078.2	1272.5	947.6	983.0	1060.1	1058.0	1049.7	1062.2	1051.8	1062.2
30°	4327.9	2840.8	1068.4	872.7	931.0	987.2	991.4	1005.9	1020.5	1001.8	1020.5
32.5°	4340.4	2580.5	922.6	826.8	899.7	901.8	947.6	962.2	951.8	910.1	914.3
35°	4436.2	2380.5	816.4	801.8	849.7	851.8	895.6	876.8	831.0	806.0	820.6
37.5°	4638.2	2213.9	766.4	778.9	783.1	810.2	812.3	774.8	778.9	776.9	785.2
40°	4896.5	2086.9	731.0	758.1	753.9	772.7	697.7	718.5	737.3	743.5	747.7
42.5°	5073.5	1995.2	708.1	724.8	716.5	683.1	641.5	662.3	676.9	699.8	704.0
45°	5152.6	1922.3	681.0	666.5	666.5	606.1	589.4	593.6	626.9	651.9	647.7
47.5°	5023.5	1851.5	633.1	589.4	604.0	554.0	535.3	535.3	570.7	601.9	595.7
48°	4973.5	1822.4	635.2	572.7	583.2	545.7	526.9	522.8	562.3	591.5	591.5
50°	4725.7	1714.1	581.1	526.9	506.1	501.9	489.4	493.6	518.6	545.7	545.7
52.5°	4242.5	1480.8	491.5	451.9	414.5	439.5	445.7	437.4	449.9	474.9	472.8
55°	3540.6	1137.2	393.6	374.9	345.7	372.8	385.3	374.9	362.4	381.1	381.1
57.5°	2268.1	612.3	314.5	318.7	289.5	316.6	327.0	302.0	279.1	293.7	291.6
60°	1022.6	366.6	258.3	252.0	233.3	264.5	281.2	252.0	220.8	231.2	241.6
62.5°	383.2	260.3	195.8	191.6	187.4	216.6	224.9	202.0	170.8	177.0	179.1
65°	281.2	229.1	156.2	141.6	150.0	170.8	166.6	143.7	122.9	122.9	127.0
67.5°	239.5	199.9	127.0	110.4	110.4	112.5	104.1	91.6	85.4	89.6	93.7
70°	187.4	158.3	100.0	85.4	77.1	68.7	60.4	58.3	52.1	58.3	56.2
72.5°	120.8	106.2	77.1	64.6	58.3	47.9	39.6	37.5	31.2	29.2	29.2
75°	64.6	64.6	60.4	52.1	45.8	37.5	31.2	25.0	16.7	12.5	12.5
77.5°	45.8	50.0	54.2	50.0	41.7	31.2	25.0	16.7	8.3	4.2	4.2
80°	43.7	50.0	54.2	47.9	41.7	31.2	22.9	12.5	6.2	2.1	2.1
82.5°	39.6	45.8	50.0	43.7	37.5	27.1	20.8	12.5	6.2	2.1	2.1
85°	8.3	10.4	12.5	12.5	14.6	18.7	14.6	10.4	4.2	2.1	2.1
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	4.2	4.2	2.1	2.1	2.1
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)