

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: P529085

Luminaire Tested: **GALN-SA4B-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529085
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-SA4B-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 14044 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

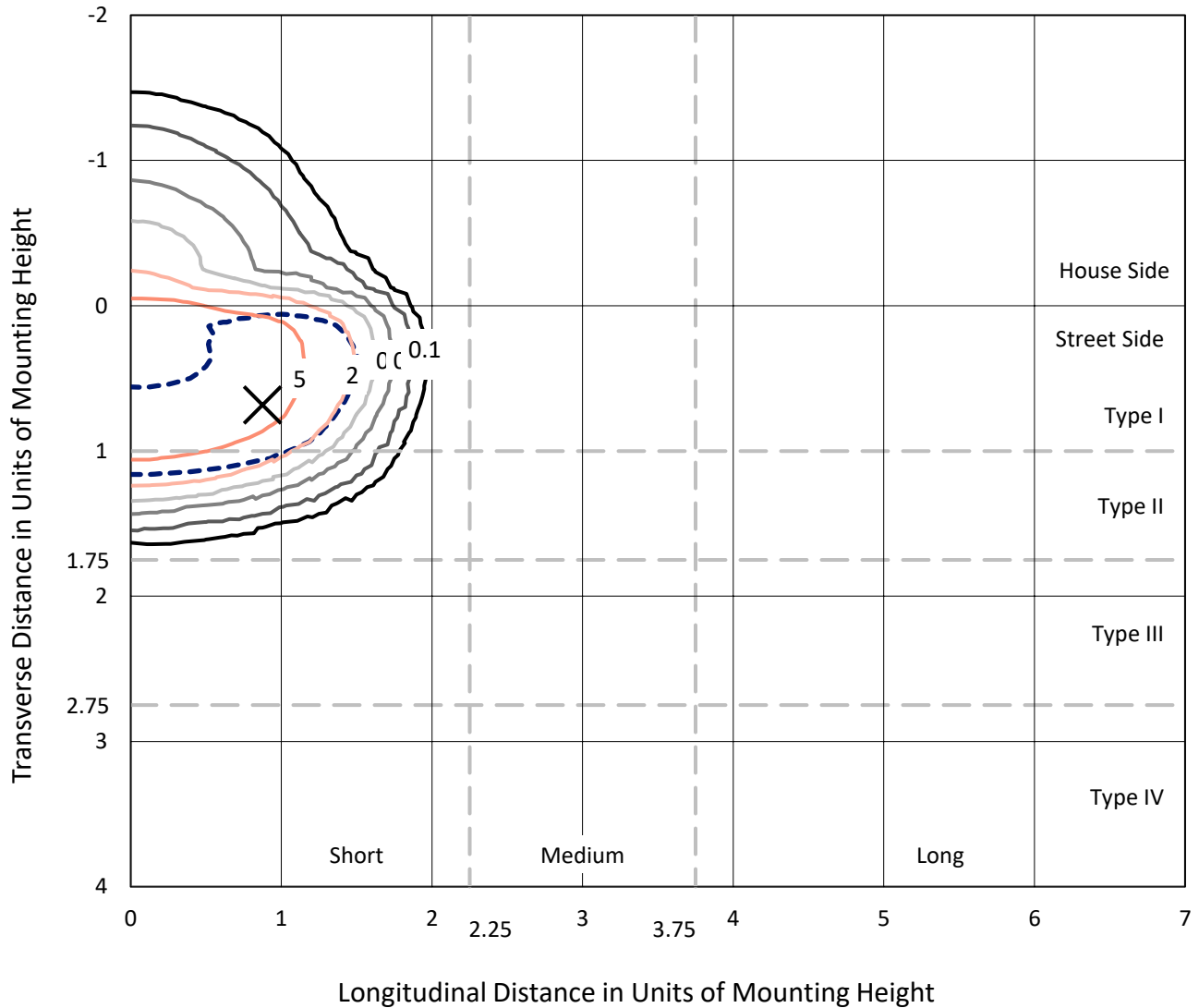
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

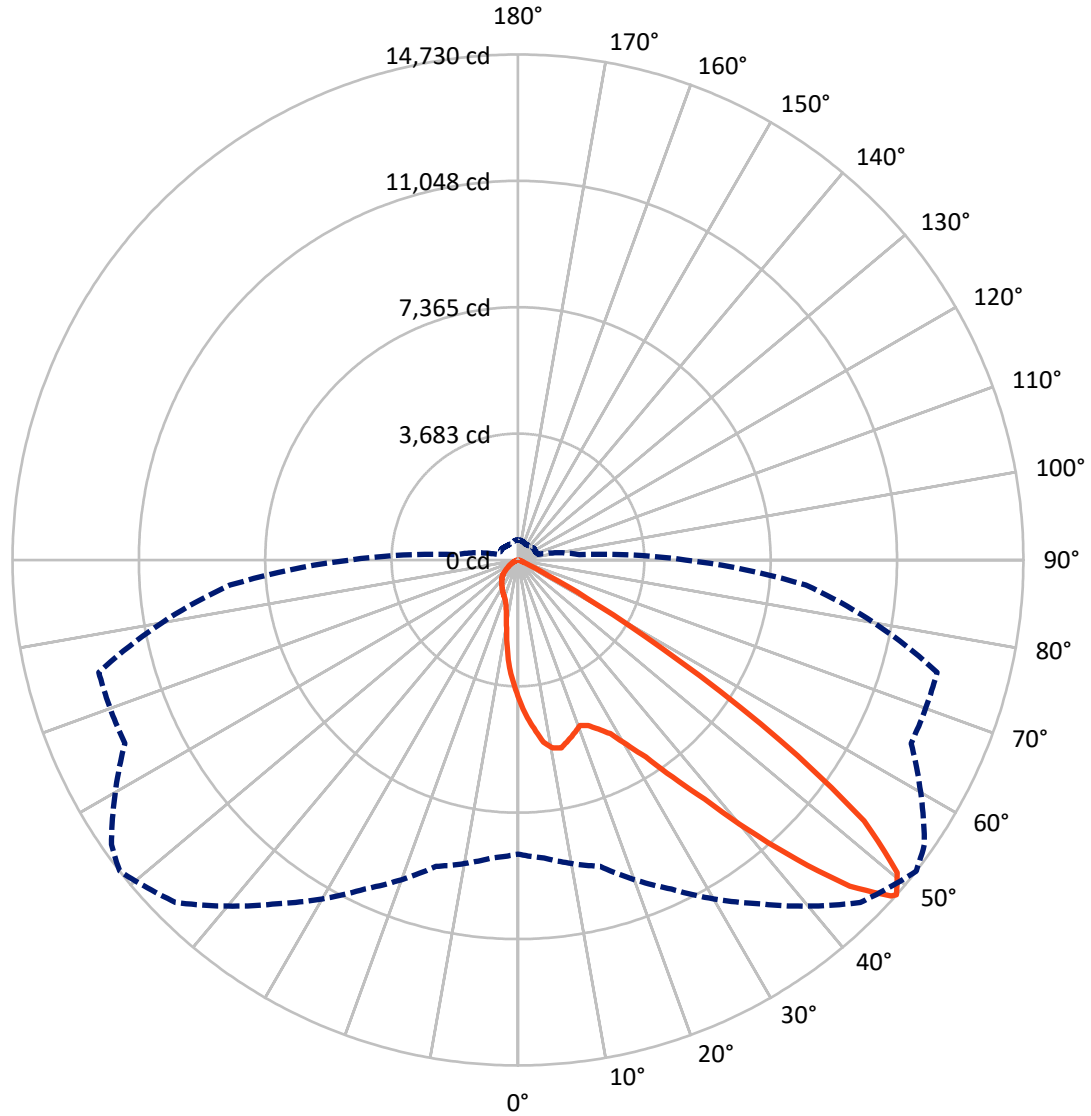
✕ Max cd
 - - - 1/2 Max cd



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 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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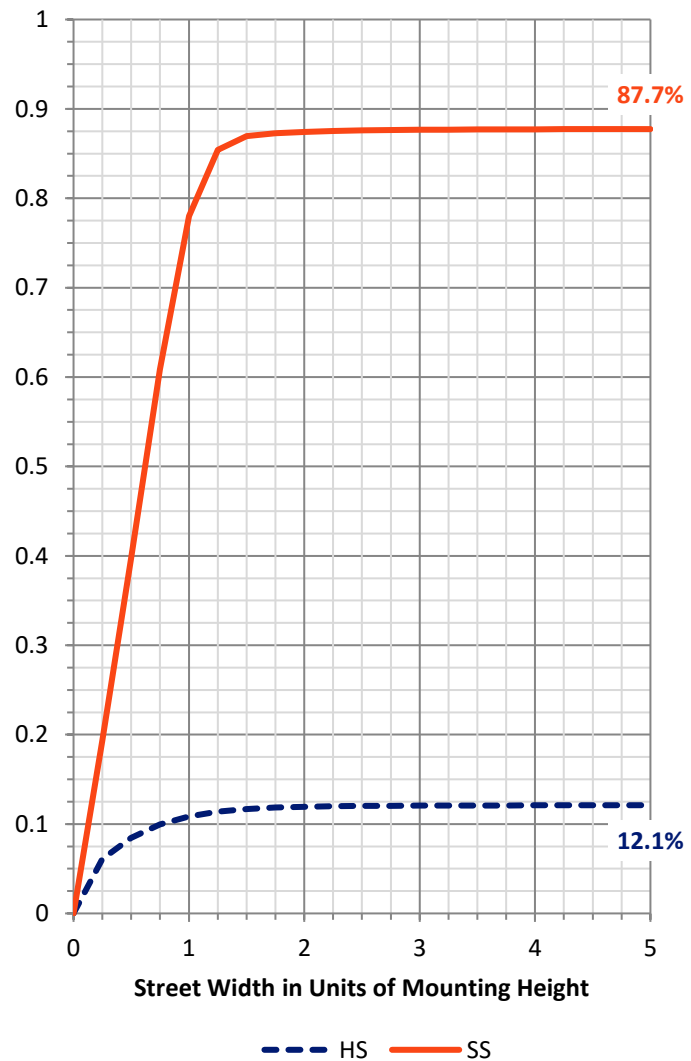
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1710.0	0.0	1710.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12334.0	0.0	12334.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	14044.0	0.0	14044.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.2	2.6
10°-20°	970.1	6.9
20°-30°	1656.4	11.8
30°-40°	3050.2	21.7
40°-50°	4737.0	33.7
50°-60°	2850.8	20.3
60°-70°	329.7	2.3
70°-80°	63.8	0.5
80°-90°	14.7	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°	14044.0	100.0
0°-180°	14044.0	100.0

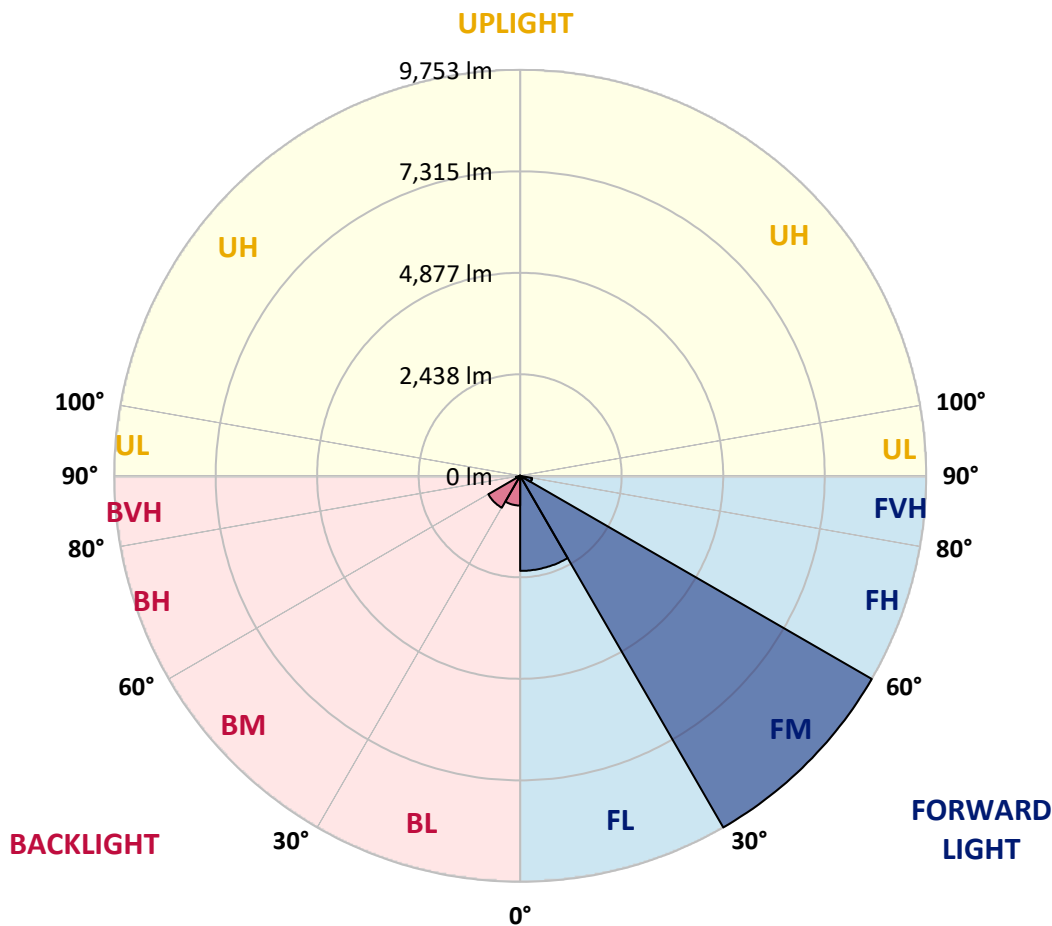


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2283.4	16.3			
FM (30°-60°)	9753.3	69.4			
FH (60°-80°)	290.3	2.1			G0/660
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	714.3	5.1	B2/1000		
BM (30°-60°)	884.7	6.3	B1/1000		
BH (60°-80°)	103.2	0.7	B0/110		G0/110
BVH (80°-90°)	7.7	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°	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7
2.5°	4915.5	4802.9	4813.2	4739.5	4696.5	4626.9	4532.7	4514.3	4411.9	4272.7	4131.4
5°	5357.7	5331.1	5365.9	5259.5	5263.6	5148.9	4927.8	4931.9	4696.5	4469.2	4250.2
7.5°	5386.4	5325.0	5359.8	5454.0	5509.2	5488.8	5363.9	5255.4	5032.2	4698.5	4379.1
10°	4823.4	4940.1	4977.0	5132.5	5353.7	5587.0	5572.7	5578.9	5392.6	4956.5	4489.7
12.5°	4485.6	4407.8	4532.7	4626.9	4960.6	5413.0	5619.8	5664.8	5679.2	5206.2	4600.3
15°	4332.1	4332.1	4352.5	4379.1	4620.7	5038.4	5460.1	5591.1	5900.3	5533.8	4774.3
17.5°	4428.3	4424.2	4452.8	4397.6	4487.7	4809.1	5312.7	5462.2	6148.0	5855.2	4911.4
20°	4721.0	4735.4	4716.9	4557.3	4563.4	4805.0	5148.9	5384.4	6315.9	6133.7	5093.6
22.5°	5128.5	5136.6	5032.2	4858.2	4807.0	4925.8	5243.1	5423.3	6451.0	6467.4	5148.9
25°	5599.3	5566.6	5546.1	5300.4	5144.8	5247.2	5456.0	5560.4	6534.9	6754.0	5306.6
27.5°	6252.4	6186.9	6062.0	5843.0	5728.3	5582.9	5732.4	5904.4	6774.5	7155.3	5478.5
30°	7216.7	7159.4	6915.7	6633.2	6332.3	6188.9	6236.0	6330.2	7206.4	7620.0	5705.8
32.5°	8668.2	8547.4	8195.3	7656.9	7247.4	6852.3	6840.0	6940.3	7593.4	8262.8	5976.0
35°	10267.1	10230.3	9712.3	9157.5	8365.2	7755.1	7765.4	7818.6	8334.5	9106.3	6330.2
37.5°	11329.7	11532.4	11202.8	10607.0	9941.6	9069.5	8848.4	8866.8	9352.0	10105.4	6969.0
40°	12150.6	11978.7	12017.6	11878.4	11423.9	10830.1	10340.8	10244.6	10529.2	11210.9	7603.6
42.5°	11792.4	11800.6	12040.1	12369.7	12482.3	12439.3	11939.8	11757.6	11536.5	12115.8	8207.6
45°	10781.0	10991.9	11303.1	12175.2	12940.9	13659.5	13561.2	13258.2	12232.5	12832.4	8555.6
47.5°	9167.7	9159.6	9669.3	10803.5	12504.8	14187.7	14634.0	14421.1	12725.9	12752.5	8484.0
48°	8572.0	8719.4	9245.5	10580.4	12228.4	14109.9	14730.2	14462.0	12642.0	12646.1	8422.5
50°	6336.4	6309.7	6964.9	8602.7	10922.3	13258.2	14324.9	14533.7	12639.9	12107.7	7992.6
52.5°	3347.3	3462.0	3939.0	5408.9	7722.4	10850.6	12635.9	12961.4	12193.6	11227.3	7374.3
55°	1422.9	1285.7	1652.2	2442.4	4344.3	7249.4	9270.1	9994.9	10310.1	9935.5	6451.0
57.5°	507.7	554.8	638.8	919.2	1826.2	3967.6	5527.7	6090.7	7143.0	7290.4	4395.5
60°	325.5	331.7	358.3	421.7	685.8	1529.3	2622.6	3070.9	3547.9	3662.6	2051.4
62.5°	251.8	253.9	266.1	276.4	325.5	593.7	984.7	1167.0	1212.0	1042.1	538.4
65°	210.9	212.9	217.0	217.0	231.3	278.4	343.9	378.7	368.5	364.4	305.0
67.5°	161.7	165.8	174.0	174.0	182.2	169.9	190.4	202.7	229.3	278.4	260.0
70°	126.9	129.0	135.1	139.2	139.2	122.8	137.2	149.5	167.9	206.8	204.7
72.5°	98.3	102.4	106.5	106.5	100.3	83.9	98.3	108.5	120.8	143.3	139.2
75°	75.7	75.7	77.8	63.5	49.1	43.0	59.4	71.7	90.1	94.2	77.8
77.5°	20.5	22.5	20.5	18.4	20.5	30.7	38.9	45.0	57.3	57.3	51.2
80°	0.0	2.0	6.1	12.3	20.5	28.7	34.8	38.9	45.0	49.1	47.1
82.5°	0.0	2.0	6.1	12.3	18.4	22.5	30.7	32.8	36.9	43.0	43.0
85°	0.0	2.0	4.1	8.2	12.3	14.3	14.3	12.3	12.3	10.2	8.2
87.5°	0.0	0.0	2.0	4.1	4.1	6.1	6.1	6.1	6.1	6.1	6.1
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°	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7	4055.7
2.5°	4076.1	4012.7	3916.5	3765.0	3619.6	3525.4	3435.3	3335.0	3279.8	3275.7	3244.9
5°	4125.3	3982.0	3752.7	3492.7	3214.2	2974.7	2733.1	2575.5	2434.2	2356.4	2342.1
7.5°	4151.9	3965.6	3595.0	3159.0	2684.0	2293.0	2022.7	1824.1	1746.3	1689.0	1687.0
10°	4207.2	3936.9	3359.6	2716.7	2129.2	1734.1	1547.7	1457.7	1414.7	1398.3	1373.7
12.5°	4248.1	3883.7	3118.0	2262.3	1682.9	1437.2	1355.3	1334.8	1336.9	1345.1	1334.8
15°	4305.4	3836.6	2792.5	1856.9	1412.6	1293.9	1293.9	1298.0	1326.6	1330.7	1328.7
17.5°	4301.3	3744.5	2456.7	1529.3	1248.8	1232.5	1238.6	1277.5	1295.9	1302.1	1287.7
20°	4350.5	3658.5	2110.8	1306.2	1156.7	1181.3	1222.2	1232.5	1255.0	1259.1	1242.7
22.5°	4336.2	3443.5	1789.3	1130.1	1087.1	1134.2	1175.1	1187.4	1181.3	1169.0	1167.0
25°	4309.5	3259.3	1494.5	1013.4	1035.9	1087.1	1126.0	1103.5	1091.2	1093.3	1095.3
27.5°	4262.4	3025.9	1250.9	931.5	966.3	1042.1	1040.0	1031.8	1044.1	1033.9	1044.1
30°	4254.3	2792.5	1050.3	857.8	915.1	970.4	974.5	988.8	1003.2	984.7	1003.2
32.5°	4266.5	2536.6	906.9	812.8	884.4	886.5	931.5	945.8	935.6	894.7	898.8
35°	4360.7	2340.0	802.5	788.2	835.3	837.3	880.3	861.9	816.9	792.3	806.6
37.5°	4559.3	2176.3	753.4	765.7	769.8	796.4	798.4	761.6	765.7	763.6	771.8
40°	4813.2	2051.4	718.6	745.2	741.1	759.5	685.8	706.3	724.7	730.9	735.0
42.5°	4987.2	1961.3	696.1	712.5	704.3	671.5	630.6	651.0	665.4	687.9	692.0
45°	5065.0	1889.6	669.5	655.1	655.1	595.8	579.4	583.5	616.2	640.8	636.7
47.5°	4938.1	1820.0	622.4	579.4	593.7	544.6	526.2	526.2	561.0	591.7	585.5
48°	4888.9	1791.4	624.4	563.0	573.2	536.4	518.0	513.9	552.8	581.4	581.4
50°	4645.3	1684.9	571.2	518.0	497.5	493.4	481.1	485.2	509.8	536.4	536.4
52.5°	4170.3	1455.6	483.2	444.3	407.4	432.0	438.1	429.9	442.2	466.8	464.7
55°	3480.4	1117.8	386.9	368.5	339.8	366.5	378.7	368.5	356.2	374.7	374.7
57.5°	2229.5	601.9	309.1	313.2	284.6	311.2	321.4	296.9	274.3	288.7	286.6
60°	1005.2	360.3	253.9	247.7	229.3	260.0	276.4	247.7	217.0	227.2	237.5
62.5°	376.7	255.9	192.4	188.4	184.3	212.9	221.1	198.6	167.9	174.0	176.1
65°	276.4	225.2	153.5	139.2	147.4	167.9	163.8	141.3	120.8	120.8	124.9
67.5°	235.4	196.5	124.9	108.5	108.5	110.6	102.4	90.1	83.9	88.0	92.1
70°	184.3	155.6	98.3	83.9	75.7	67.6	59.4	57.3	51.2	57.3	55.3
72.5°	118.7	104.4	75.7	63.5	57.3	47.1	38.9	36.9	30.7	28.7	28.7
75°	63.5	63.5	59.4	51.2	45.0	36.9	30.7	24.6	16.4	12.3	12.3
77.5°	45.0	49.1	53.2	49.1	40.9	30.7	24.6	16.4	8.2	4.1	4.1
80°	43.0	49.1	53.2	47.1	40.9	30.7	22.5	12.3	6.1	2.0	2.0
82.5°	38.9	45.0	49.1	43.0	36.9	26.6	20.5	12.3	6.1	2.0	2.0
85°	8.2	10.2	12.3	12.3	14.3	18.4	14.3	10.2	4.1	2.0	2.0
87.5°	6.1	6.1	6.1	6.1	6.1	6.1	4.1	4.1	2.0	2.0	2.0
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)