

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: P949851

Luminaire Tested: **GALN-SB4C-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23737 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 200.7
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

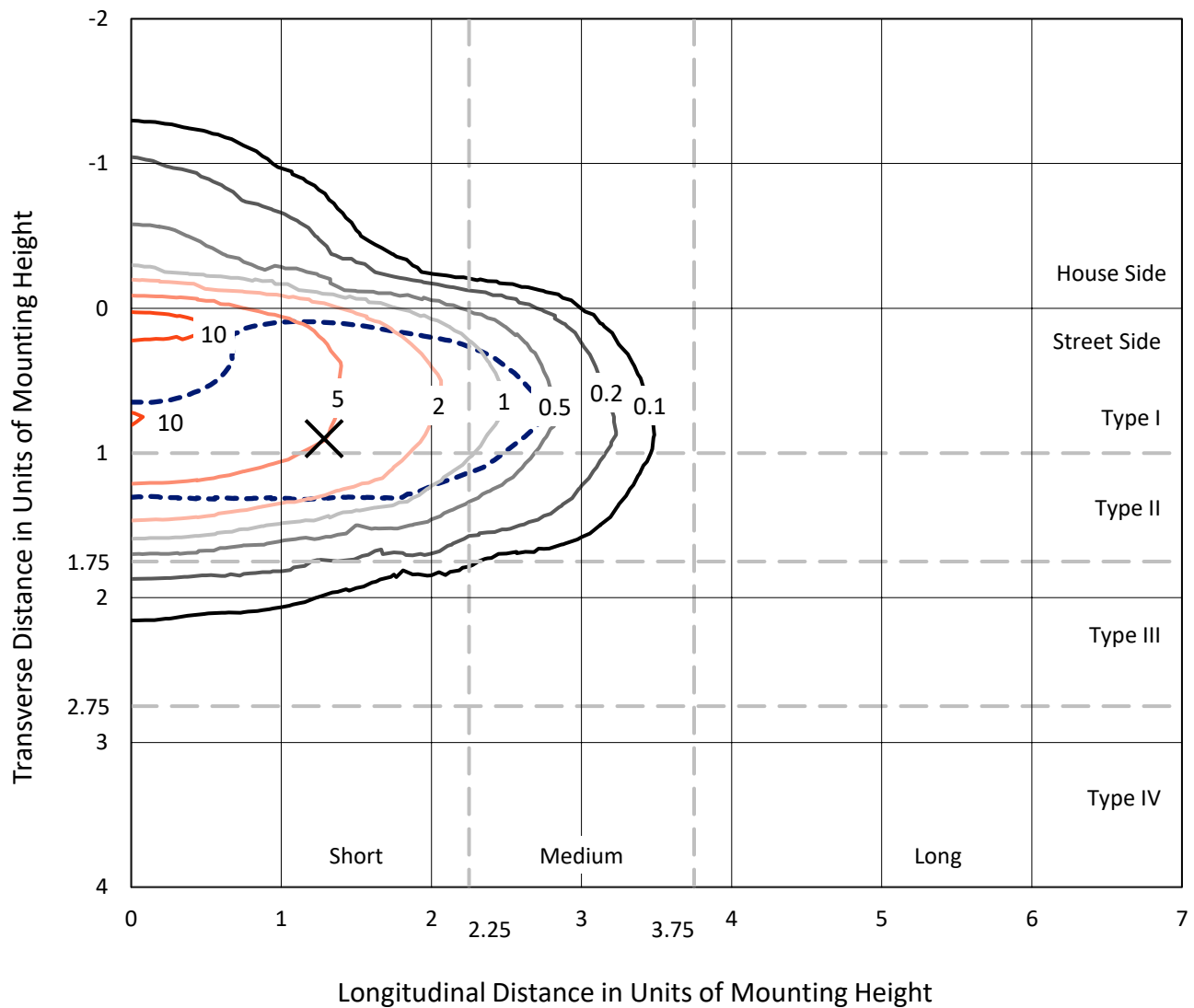


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

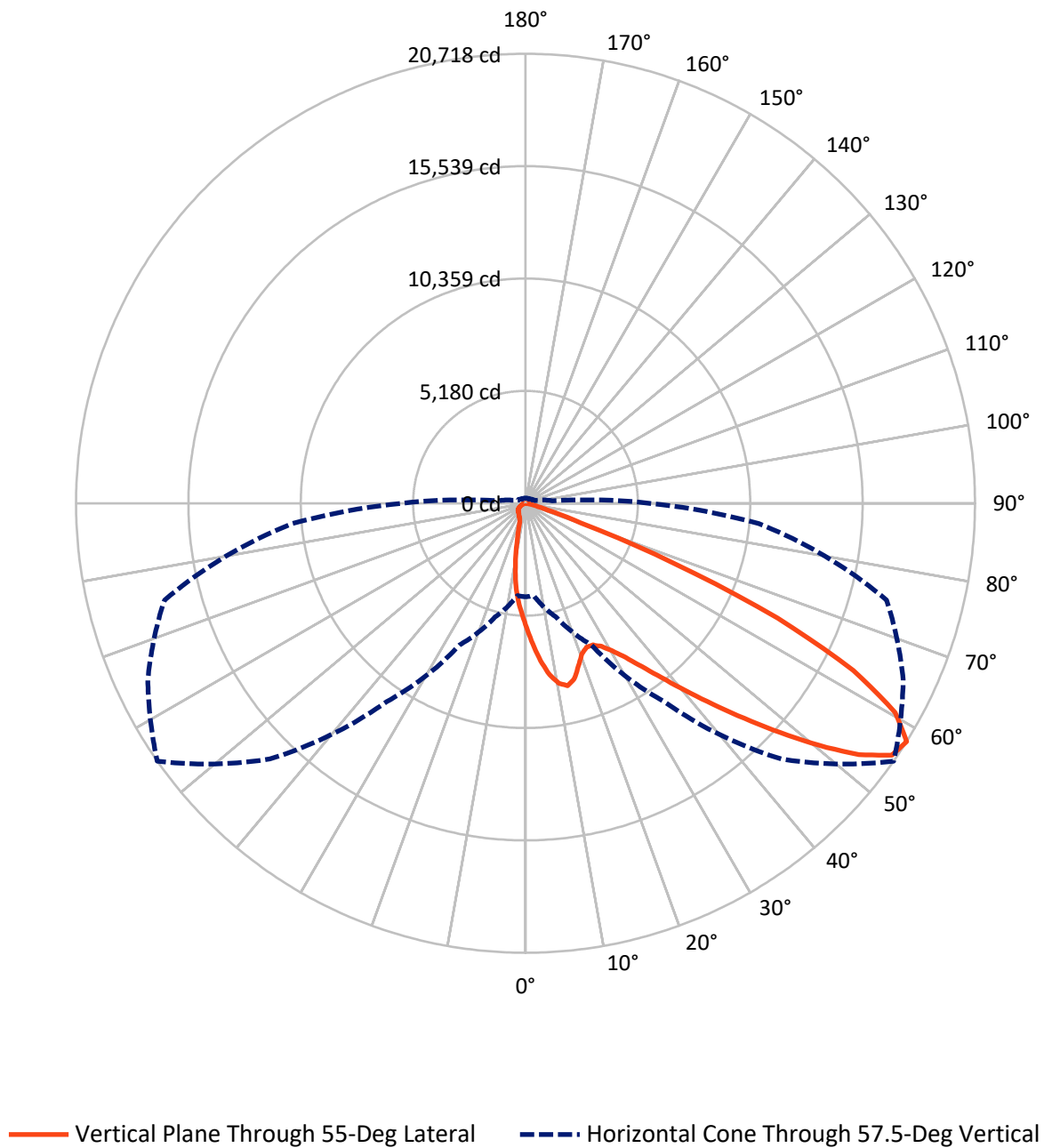


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1853.8	0.0	1853.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	21883.2	0.0	21883.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	23737.0	0.0	23737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.2	2.2
10°-20°	1285.6	5.4
20°-30°	2056.9	8.7
30°-40°	3481.4	14.7
40°-50°	5715.8	24.1
50°-60°	6282.0	26.5
60°-70°	3603.4	15.2
70°-80°	736.3	3.1
80°-90°	43.4	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°	23737.0	100.0
0°-180°	23737.0	100.0

Coefficient of Utilization



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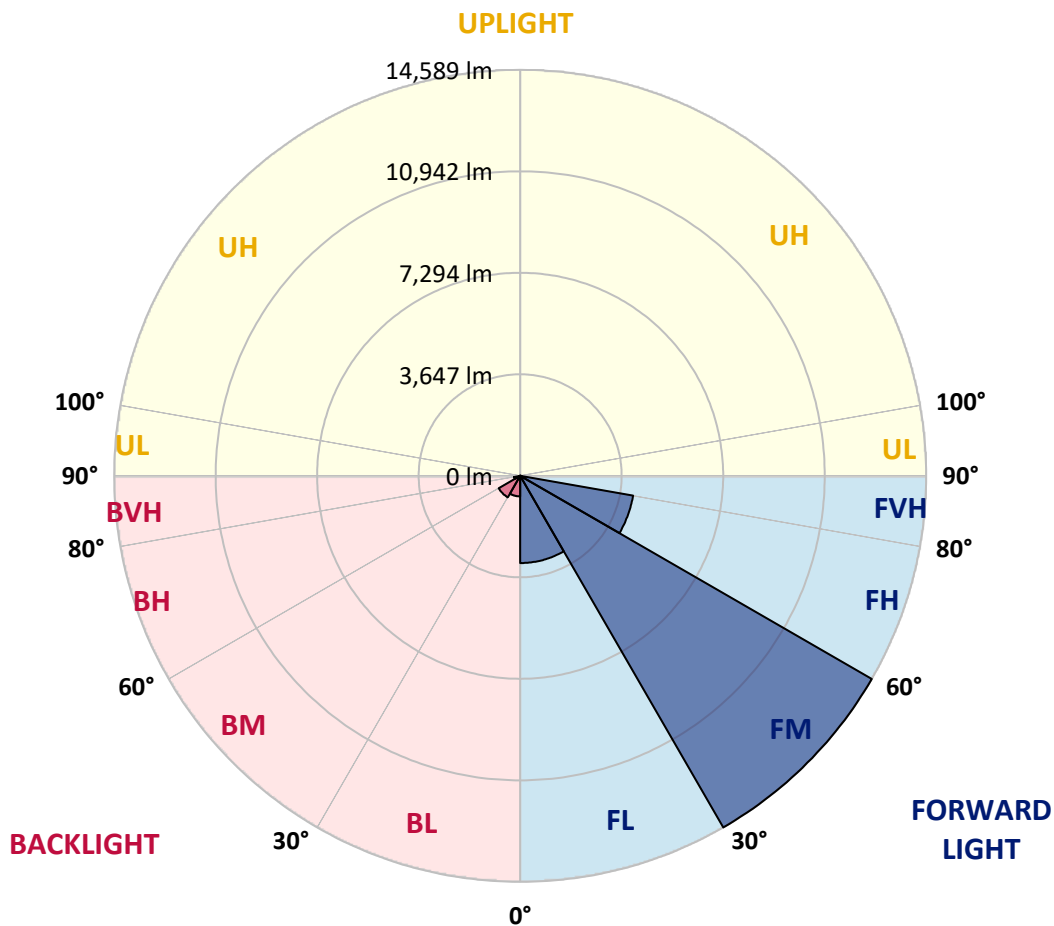
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3134.6	13.2			
FM	(30°-60°)	14588.9	61.5			
FH	(60°-80°)	4119.2	17.4			G2/5000
FVH	(80°-90°)	40.5	0.2			G1/100
BL	(0°-30°)	740.1	3.1	B2/1000		
BM	(30°-60°)	890.3	3.8	B1/1000		
BH	(60°-80°)	220.5	0.9	B1/500		G1/500
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5720.0	5720.0	5720.0	5720.0	5720.0	5720.0	5720.0	5720.0	5720.0	5720.0	5720.0
2.5°	7097.3	7008.1	6994.9	6977.3	6807.5	6680.2	6495.8	6293.8	6066.9	5835.7	5733.2
5°	8199.5	8129.2	8116.1	8034.1	7840.9	7624.3	7296.4	6882.2	6459.2	5961.5	5747.8
7.5°	8413.2	8400.0	8460.0	8457.1	8430.8	8259.5	7982.9	7489.6	6854.4	6116.7	5785.9
10°	7460.3	7494.0	7672.6	7829.2	8252.2	8498.1	8438.1	8031.2	7261.3	6293.8	5828.3
12.5°	6592.4	6552.9	6680.2	6857.3	7349.1	8080.9	8626.9	8483.4	7726.7	6494.3	5891.3
15°	6047.9	6031.8	6103.5	6185.5	6560.2	7297.9	8407.3	8850.8	8174.6	6731.4	5986.4
17.5°	5873.7	5860.5	5882.5	5903.0	6146.0	6716.8	7884.8	9076.2	8603.5	7002.2	6091.8
20°	6015.7	5998.1	5995.2	5979.1	6080.1	6469.4	7412.0	9092.3	8988.4	7248.1	6182.6
22.5°	6429.9	6409.4	6337.7	6273.3	6282.1	6503.1	7201.3	8931.3	9278.2	7477.9	6239.6
25°	7180.8	7147.1	6997.8	6781.2	6643.6	6737.3	7233.5	8719.1	9554.9	7657.9	6211.8
27.5°	8120.5	8076.5	7884.8	7562.8	7248.1	7133.9	7466.2	8572.7	9784.7	7795.5	6151.8
30°	9041.1	8984.0	8795.2	8544.9	8085.3	7725.3	7886.3	8637.1	10058.4	7939.0	6072.8
32.5°	10034.9	9980.8	9730.5	9420.2	9039.6	8555.2	8461.5	8951.8	10393.5	8139.5	6017.2
35°	11292.2	11207.3	10851.7	10428.7	10024.7	9534.4	9240.2	9494.8	10840.0	8445.4	6047.9
37.5°	12723.7	12609.5	12226.1	11642.1	11115.1	10566.3	10188.6	10241.3	11494.2	8855.2	6143.0
40°	14073.2	13969.3	13615.1	13064.7	12403.2	11737.2	11334.7	11217.6	12397.3	9354.3	6309.9
42.5°	14882.6	14788.9	14639.7	14406.9	13849.3	13170.1	12662.2	12409.0	13465.8	9951.5	6513.3
45°	14928.0	14846.0	15046.6	15317.3	15207.6	14755.3	14136.1	13672.2	14538.7	10512.1	6724.1
47.5°	14202.0	14146.4	14755.3	15700.8	16172.1	16362.4	15791.6	14829.9	15424.2	10914.6	6810.5
50°	12223.1	12202.6	13455.5	15191.5	16539.5	17770.4	17537.7	15907.2	16110.6	11122.4	6728.5
52.5°	10598.5	10523.8	11254.2	13560.9	16005.3	18511.1	19244.4	16964.0	16590.7	11162.0	6536.8
55°	8038.5	7972.6	8888.9	10832.6	14282.5	18247.6	20492.9	18054.4	16934.7	11061.0	6192.8
57.5°	4312.0	4271.0	5428.8	7210.1	11164.9	16666.8	20718.3	19207.8	17224.5	10793.1	5711.2
60°	1678.8	1671.5	2104.8	3498.2	6785.6	13559.5	19581.0	19900.1	17406.0	10463.8	5308.7
62.5°	1015.8	1037.7	1108.0	1570.5	2997.6	8423.4	16959.6	19112.6	17527.5	10162.3	4976.5
65°	840.1	841.6	850.4	1078.7	1435.9	3524.5	12767.6	16521.9	17227.4	9625.1	4505.2
67.5°	720.1	733.3	767.0	856.2	1012.9	1545.6	7350.6	12798.4	15402.2	8375.1	3770.4
70°	567.9	585.5	627.9	704.0	781.6	967.5	2716.6	8515.6	11766.5	6312.8	2851.2
72.5°	478.6	477.2	499.1	572.3	620.6	680.6	1045.1	4771.6	6838.3	3013.7	1411.0
75°	370.3	384.9	412.8	478.6	507.9	493.3	566.4	1743.2	2450.2	913.3	480.1
77.5°	289.8	301.5	326.4	390.8	420.1	349.8	326.4	623.5	787.5	327.9	216.6
80°	130.3	140.5	222.5	288.3	342.5	241.5	177.1	319.1	349.8	149.3	109.8
82.5°	23.4	39.5	130.3	152.2	175.6	156.6	92.2	165.4	171.2	60.0	38.1
85°	1.5	2.9	45.4	55.6	70.3	51.2	27.8	65.9	57.1	20.5	14.6
87.5°	0.0	0.0	0.0	1.5	1.5	7.3	8.8	11.7	8.8	7.3	5.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5720.0	5720.0	5720.0	5720.0	5720.0	5720.0	5720.0	5720.0	5720.0	5720.0
2.5°	5627.8	5420.0	5218.0	5052.6	4956.0	4792.1	4683.8	4666.2	4620.8	4660.3
5°	5519.5	5147.7	4771.6	4434.9	4158.3	3801.2	3534.8	3422.1	3324.0	3357.7
7.5°	5468.3	4881.3	4295.9	3720.7	3129.3	2558.5	2134.0	1956.9	1822.3	1841.3
10°	5399.5	4604.7	3687.0	2808.8	2016.9	1453.4	1160.7	1052.4	992.4	993.8
12.5°	5346.8	4273.9	2980.0	1904.2	1228.0	928.0	837.2	810.9	793.3	794.8
15°	5320.4	3884.6	2281.9	1269.0	878.2	786.0	764.0	752.3	740.6	739.2
17.5°	5276.5	3451.3	1670.1	926.5	768.4	736.2	717.2	704.0	689.4	686.5
20°	5210.7	2959.5	1220.7	783.1	720.1	695.2	668.9	651.3	633.8	630.8
22.5°	5089.2	2439.9	938.2	724.5	685.0	657.2	625.0	604.5	586.9	584.0
25°	4863.8	1952.5	790.4	687.9	654.3	620.6	585.5	557.7	541.6	538.6
27.5°	4578.4	1533.9	717.2	654.3	614.7	584.0	544.5	518.1	503.5	500.6
30°	4241.7	1181.2	674.8	616.2	567.9	541.6	506.4	484.5	475.7	475.7
32.5°	3878.7	944.1	657.2	578.2	526.9	497.6	469.8	461.1	458.1	456.7
35°	3537.7	819.7	648.4	547.4	490.3	462.5	450.8	452.3	458.1	458.1
37.5°	3234.7	780.1	644.0	525.5	458.1	433.2	440.6	453.7	447.9	447.9
40°	2961.0	784.5	641.1	509.4	431.8	417.1	431.8	421.5	406.9	405.4
42.5°	2751.7	821.1	635.2	496.2	415.7	405.4	399.6	383.5	382.0	384.9
45°	2599.5	853.3	633.8	490.3	398.1	379.1	371.8	355.7	384.9	392.3
47.5°	2419.5	853.3	633.8	469.8	368.8	361.5	349.8	332.3	361.5	368.8
50°	2186.7	799.2	608.9	446.4	345.4	341.0	320.5	298.6	292.7	297.1
52.5°	1892.5	701.1	545.9	414.2	322.0	313.2	288.3	272.2	267.9	267.9
55°	1557.3	586.9	461.1	367.4	297.1	281.0	263.5	256.1	251.8	248.8
57.5°	1266.1	481.5	370.3	326.4	273.7	253.2	247.4	238.6	231.3	226.9
60°	1039.2	379.1	305.9	289.8	250.3	231.3	229.8	218.1	199.1	196.1
62.5°	802.1	278.1	257.6	251.8	226.9	210.8	207.8	184.4	155.1	149.3
65°	566.4	216.6	207.8	221.0	202.0	187.4	180.0	144.9	114.2	109.8
67.5°	398.1	181.5	163.9	193.2	175.6	156.6	152.2	122.9	95.1	92.2
70°	284.0	147.8	134.7	165.4	140.5	137.6	128.8	102.5	77.6	74.6
72.5°	200.5	112.7	103.9	143.4	96.6	118.6	105.4	79.0	58.5	55.6
75°	147.8	80.5	73.2	83.4	70.3	89.3	74.6	52.7	36.6	35.1
77.5°	108.3	51.2	43.9	41.0	41.0	55.6	41.0	22.0	16.1	14.6
80°	76.1	23.4	20.5	17.6	16.1	13.2	5.9	2.9	1.5	1.5
82.5°	45.4	10.2	10.2	7.3	4.4	0.0	0.0	0.0	0.0	0.0
85°	10.2	4.4	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	0.0	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

(END OF REPORT)