

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: P953421

Luminaire Tested: **GALN-SB7A-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953421
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-SB7A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA 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: 25229 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 199.1
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



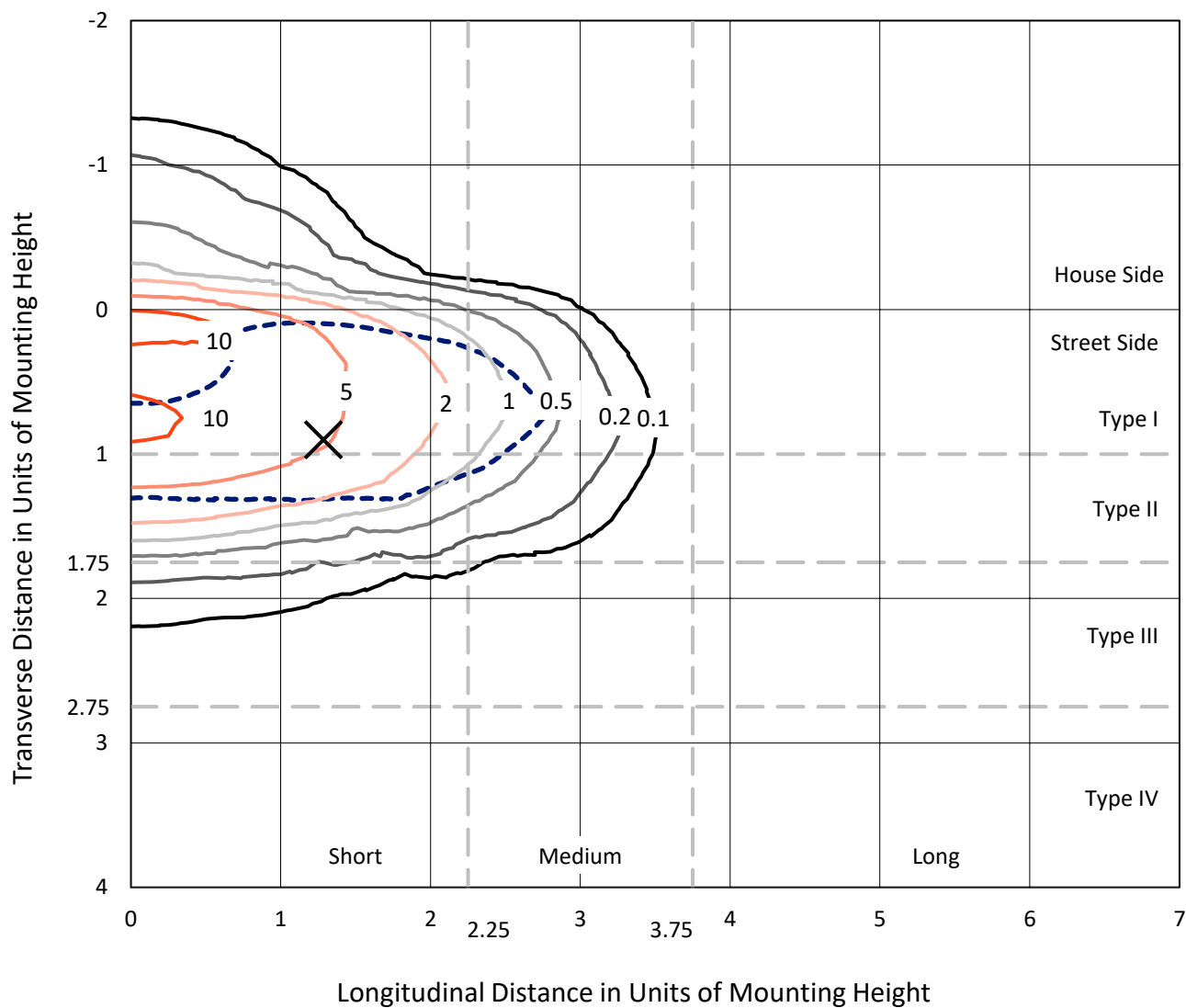
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Iso-Footcandle Lines of Horizontal Illumination

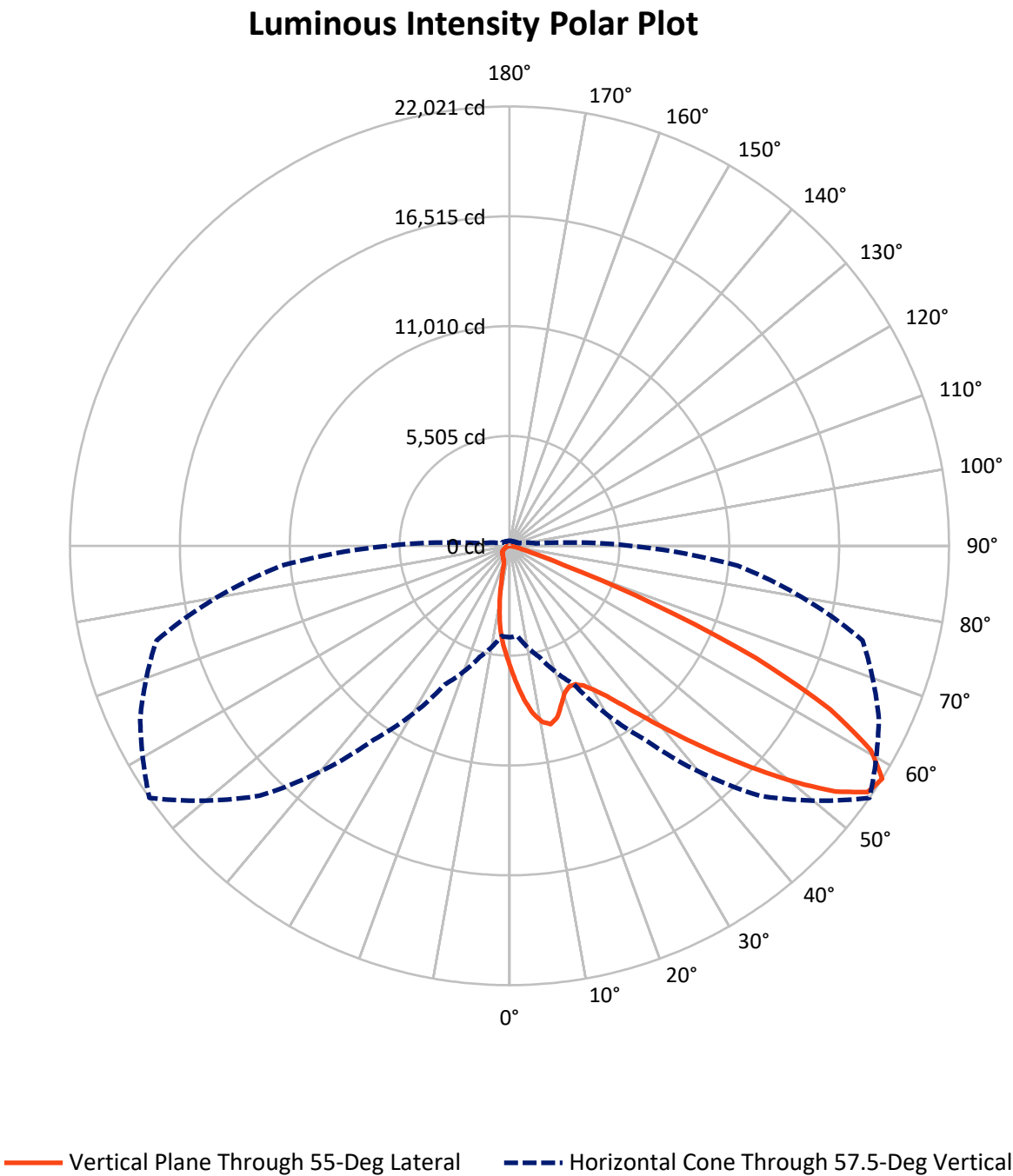
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1970.3	0.0	1970.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	23258.7	0.0	23258.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	25229.0	0.0	25229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.7	2.2
10°-20°	1366.4	5.4
20°-30°	2186.2	8.7
30°-40°	3700.3	14.7
40°-50°	6075.0	24.1
50°-60°	6676.9	26.5
60°-70°	3829.9	15.2
70°-80°	782.6	3.1
80°-90°	46.2	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°	25229.0	100.0
0°-180°	25229.0	100.0

Coefficient of Utilization



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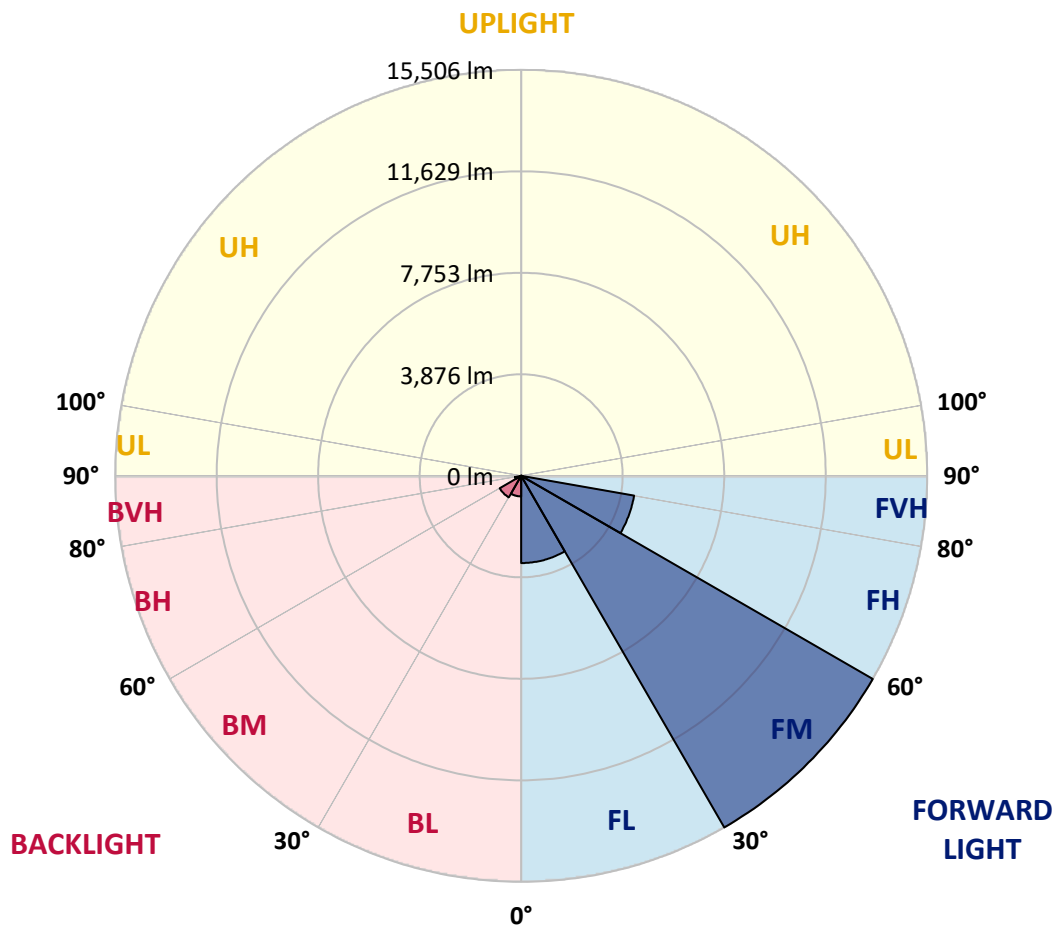
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3331.6	13.2			
FM	(30°-60°)	15505.9	61.5			
FH	(60°-80°)	4378.1	17.4			G2/5000
FVH	(80°-90°)	43.1	0.2			G1/100
BL	(0°-30°)	786.6	3.1	B2/1000		
BM	(30°-60°)	946.3	3.8	B1/1000		
BH	(60°-80°)	234.3	0.9	B1/500		G1/500
BVH	(80°-90°)	3.1	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°	6079.6	6079.6	6079.6	6079.6	6079.6	6079.6	6079.6	6079.6	6079.6	6079.6	6079.6
2.5°	7543.5	7448.6	7434.6	7415.9	7235.4	7100.1	6904.1	6689.4	6448.3	6202.5	6093.6
5°	8714.9	8640.2	8626.2	8539.1	8333.7	8103.5	7755.0	7314.8	6865.2	6336.3	6109.1
7.5°	8942.0	8928.0	8991.8	8988.7	8960.7	8778.7	8484.6	7960.4	7285.2	6501.2	6149.6
10°	7929.3	7965.0	8154.8	8321.3	8770.9	9032.2	8968.5	8536.0	7717.7	6689.4	6194.7
12.5°	7006.7	6964.7	7100.1	7288.3	7811.0	8588.9	9169.1	9016.7	8212.4	6902.5	6261.6
15°	6428.0	6410.9	6487.2	6574.3	6972.5	7756.6	8935.8	9407.2	8688.4	7154.5	6362.7
17.5°	6242.9	6228.9	6252.2	6274.0	6532.3	7139.0	8380.4	9646.7	9144.2	7442.3	6474.7
20°	6393.8	6375.1	6372.0	6354.9	6462.3	6876.1	7877.9	9663.8	9553.4	7703.7	6571.2
22.5°	6834.1	6812.3	6736.1	6667.6	6676.9	6911.9	7653.9	9492.7	9861.4	7947.9	6631.8
25°	7632.1	7596.3	7437.7	7207.4	7061.2	7160.8	7688.1	9267.1	10155.4	8139.3	6602.3
27.5°	8630.9	8584.2	8380.4	8038.2	7703.7	7582.3	7935.5	9111.6	10399.7	8285.5	6538.5
30°	9609.4	9548.7	9348.0	9082.0	8593.5	8210.8	8382.0	9180.0	10690.6	8438.0	6454.5
32.5°	10665.7	10608.1	10342.1	10012.3	9607.8	9092.9	8993.3	9514.5	11046.8	8651.1	6395.4
35°	12002.0	11911.8	11533.8	11084.2	10654.8	10133.6	9821.0	10091.6	11521.3	8976.2	6428.0
37.5°	13523.5	13402.1	12994.5	12373.8	11813.8	11230.4	10829.0	10885.0	12216.7	9411.8	6529.2
40°	14957.8	14847.3	14470.9	13885.9	13182.8	12474.9	12047.1	11922.7	13176.5	9942.3	6706.5
42.5°	15818.1	15718.5	15559.8	15312.5	14719.8	13997.9	13458.1	13189.0	14312.2	10577.0	6922.7
45°	15866.3	15779.2	15992.3	16280.1	16163.4	15682.7	15024.7	14531.5	15452.5	11172.8	7146.8
47.5°	15094.7	15035.6	15682.7	16687.7	17188.6	17390.9	16784.1	15762.1	16393.7	11600.6	7238.5
50°	12991.4	12969.6	14301.3	16146.3	17579.1	18887.4	18640.1	16907.0	17123.3	11821.6	7151.4
52.5°	11264.6	11185.3	11961.6	14413.3	17011.3	19674.6	20454.0	18030.2	17633.5	11863.6	6947.6
55°	8543.8	8473.7	9447.6	11513.5	15180.2	19394.6	21781.0	19189.2	17999.1	11756.2	6582.0
57.5°	4583.0	4539.5	5770.0	7663.2	11866.7	17714.4	22020.5	20415.1	18307.2	11471.5	6070.2
60°	1784.4	1776.6	2237.1	3718.1	7212.1	14411.7	20811.8	21150.9	18500.1	11121.5	5642.4
62.5°	1079.6	1103.0	1177.6	1669.2	3186.0	8952.9	18025.6	20314.0	18629.2	10801.0	5289.3
65°	893.0	894.5	903.8	1146.5	1526.1	3746.1	13570.1	17560.4	18310.3	10230.1	4788.4
67.5°	765.4	779.4	815.2	910.1	1076.5	1642.8	7812.6	13602.8	16370.3	8901.6	4007.4
70°	603.6	622.3	667.4	748.3	830.7	1028.3	2887.3	9050.9	12506.0	6709.6	3030.4
72.5°	508.7	507.1	530.5	608.3	659.6	723.4	1110.7	5071.5	7268.1	3203.1	1499.7
75°	393.6	409.1	438.7	508.7	539.8	524.3	602.0	1852.8	2604.2	970.7	510.3
77.5°	308.0	320.5	346.9	415.4	446.5	371.8	346.9	662.7	837.0	348.5	230.2
80°	138.5	149.3	236.5	306.5	364.0	256.7	188.2	339.1	371.8	158.7	116.7
82.5°	24.9	42.0	138.5	161.8	186.7	166.5	98.0	175.8	182.0	63.8	40.4
85°	1.6	3.1	48.2	59.1	74.7	54.4	29.6	70.0	60.7	21.8	15.6
87.5°	0.0	0.0	0.0	1.6	1.6	7.8	9.3	12.4	9.3	7.8	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6079.6	6079.6	6079.6	6079.6	6079.6	6079.6	6079.6	6079.6	6079.6	6079.6
2.5°	5981.6	5760.7	5546.0	5370.2	5267.5	5093.3	4978.2	4959.5	4911.3	4953.3
5°	5866.4	5471.3	5071.5	4713.7	4419.7	4040.1	3756.9	3637.2	3532.9	3568.7
7.5°	5812.0	5188.2	4565.9	3954.5	3326.0	2719.3	2268.2	2079.9	1936.8	1957.0
10°	5738.9	4894.1	3918.7	2985.3	2143.7	1544.8	1233.6	1118.5	1054.7	1056.3
12.5°	5682.9	4542.6	3167.3	2023.9	1305.2	986.3	889.8	861.8	843.2	844.7
15°	5654.9	4128.8	2425.3	1348.8	933.4	835.4	812.1	799.6	787.2	785.6
17.5°	5608.2	3668.3	1775.0	984.7	816.7	782.5	762.3	748.3	732.7	729.6
20°	5538.2	3145.6	1297.4	832.3	765.4	738.9	710.9	692.3	673.6	670.5
22.5°	5409.1	2593.3	997.2	770.1	728.1	698.5	664.3	642.5	623.8	620.7
25°	5169.5	2075.3	840.1	731.2	695.4	659.6	622.3	592.7	575.6	572.5
27.5°	4866.1	1630.3	762.3	695.4	653.4	620.7	578.7	550.7	535.2	532.0
30°	4508.3	1255.4	717.2	654.9	603.6	575.6	538.3	514.9	505.6	505.6
32.5°	4122.5	1003.4	698.5	614.5	560.0	528.9	499.4	490.0	486.9	485.4
35°	3760.1	871.2	689.2	581.8	521.2	491.6	479.1	480.7	486.9	486.9
37.5°	3438.0	829.2	684.5	558.5	486.9	460.5	468.3	482.3	476.0	476.0
40°	3147.1	833.8	681.4	541.4	458.9	443.4	458.9	448.0	432.5	430.9
42.5°	2924.7	872.7	675.2	527.4	441.8	430.9	424.7	407.6	406.0	409.1
45°	2762.9	907.0	673.6	521.2	423.1	402.9	395.1	378.0	409.1	416.9
47.5°	2571.5	907.0	673.6	499.4	392.0	384.3	371.8	353.1	384.3	392.0
50°	2324.2	849.4	647.2	474.5	367.1	362.5	340.7	317.4	311.1	315.8
52.5°	2011.5	745.2	580.3	440.3	342.2	332.9	306.5	289.4	284.7	284.7
55°	1655.2	623.8	490.0	390.5	315.8	298.7	280.0	272.2	267.6	264.5
57.5°	1345.7	511.8	393.6	346.9	290.9	269.1	262.9	253.6	245.8	241.1
60°	1104.5	402.9	325.1	308.0	266.0	245.8	244.2	231.8	211.6	208.5
62.5°	852.5	295.6	273.8	267.6	241.1	224.0	220.9	196.0	164.9	158.7
65°	602.0	230.2	220.9	234.9	214.7	199.1	191.3	154.0	121.3	116.7
67.5°	423.1	192.9	174.2	205.3	186.7	166.5	161.8	130.7	101.1	98.0
70°	301.8	157.1	143.1	175.8	149.3	146.2	136.9	108.9	82.5	79.3
72.5°	213.1	119.8	110.5	152.5	102.7	126.0	112.0	84.0	62.2	59.1
75°	157.1	85.6	77.8	88.7	74.7	94.9	79.3	56.0	38.9	37.3
77.5°	115.1	54.4	46.7	43.6	43.6	59.1	43.6	23.3	17.1	15.6
80°	80.9	24.9	21.8	18.7	17.1	14.0	6.2	3.1	1.6	1.6
82.5°	48.2	10.9	10.9	7.8	4.7	0.0	0.0	0.0	0.0	0.0
85°	10.9	4.7	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	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)