

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: P950565

Luminaire Tested: **GALN-SB5A-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950565
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-SB5A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 17920 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 141.7
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

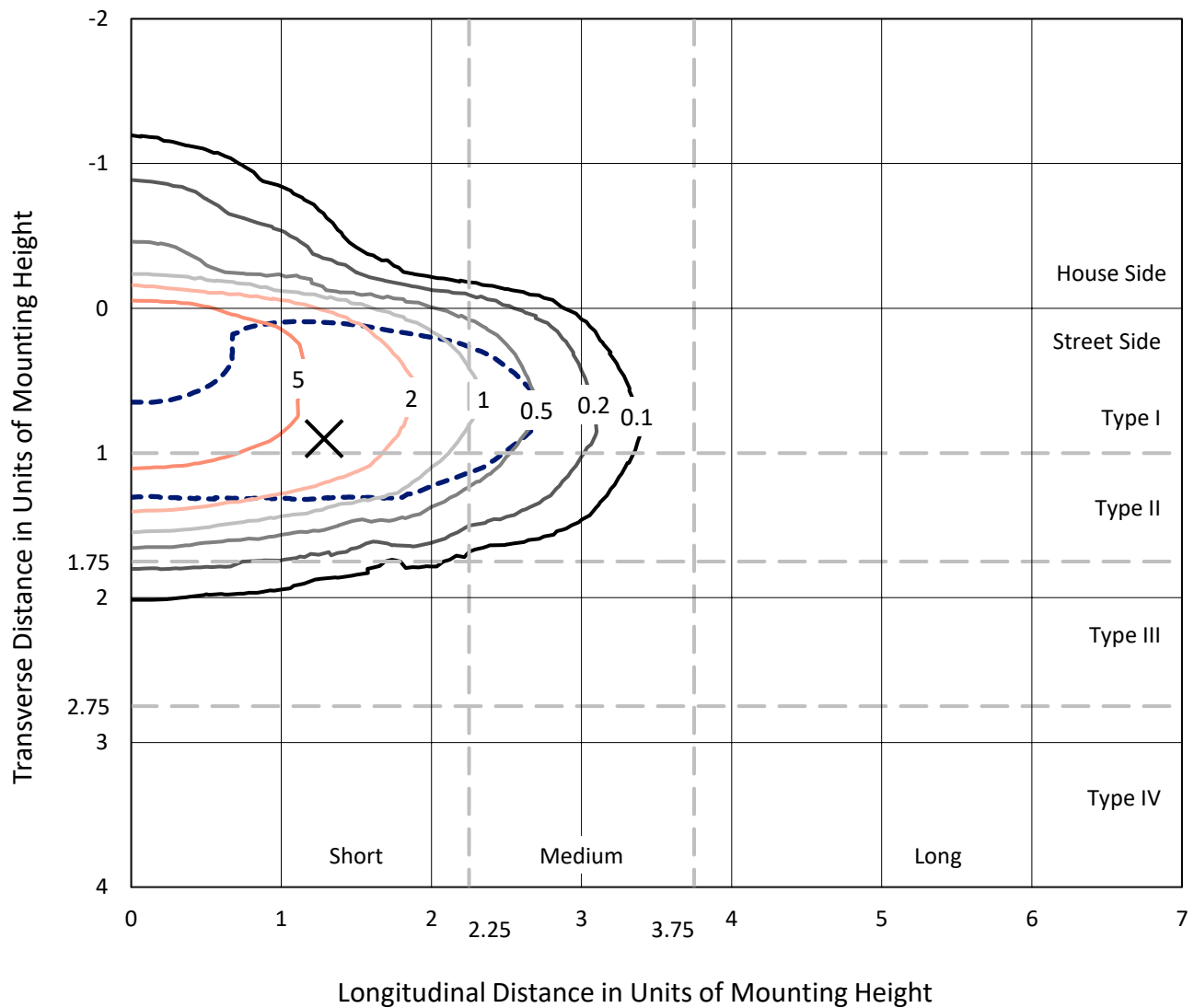


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Iso-Footcandle Lines of Horizontal Illumination

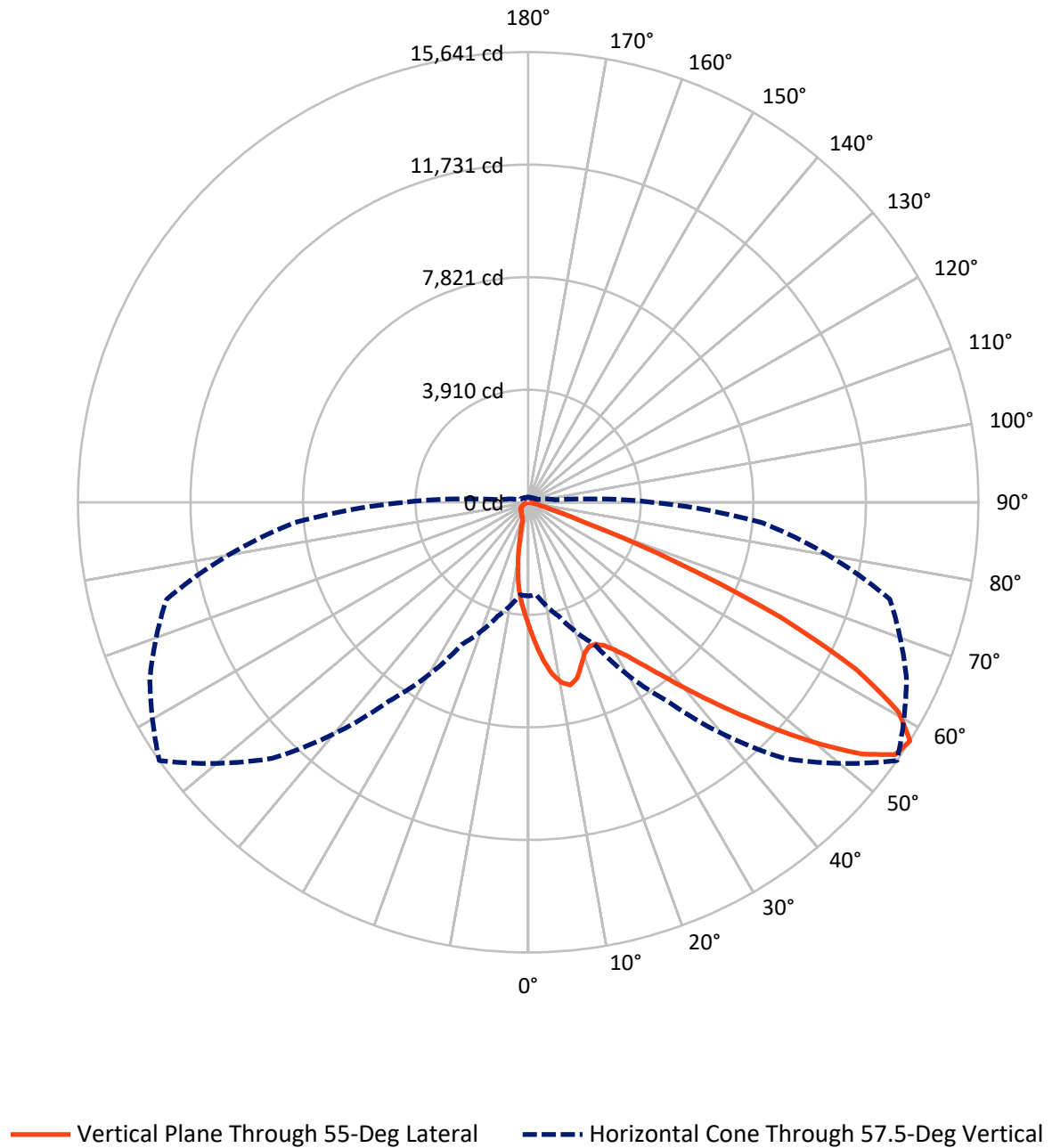
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	1399.5	0.0	1399.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	16520.5	0.0	16520.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	17920.0	0.0	17920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.8	2.2
10°-20°	970.5	5.4
20°-30°	1552.8	8.7
30°-40°	2628.3	14.7
40°-50°	4315.1	24.1
50°-60°	4742.6	26.5
60°-70°	2720.3	15.2
70°-80°	555.8	3.1
80°-90°	32.8	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°	17920.0	100.0
0°-180°	17920.0	100.0

Coefficient of Utilization



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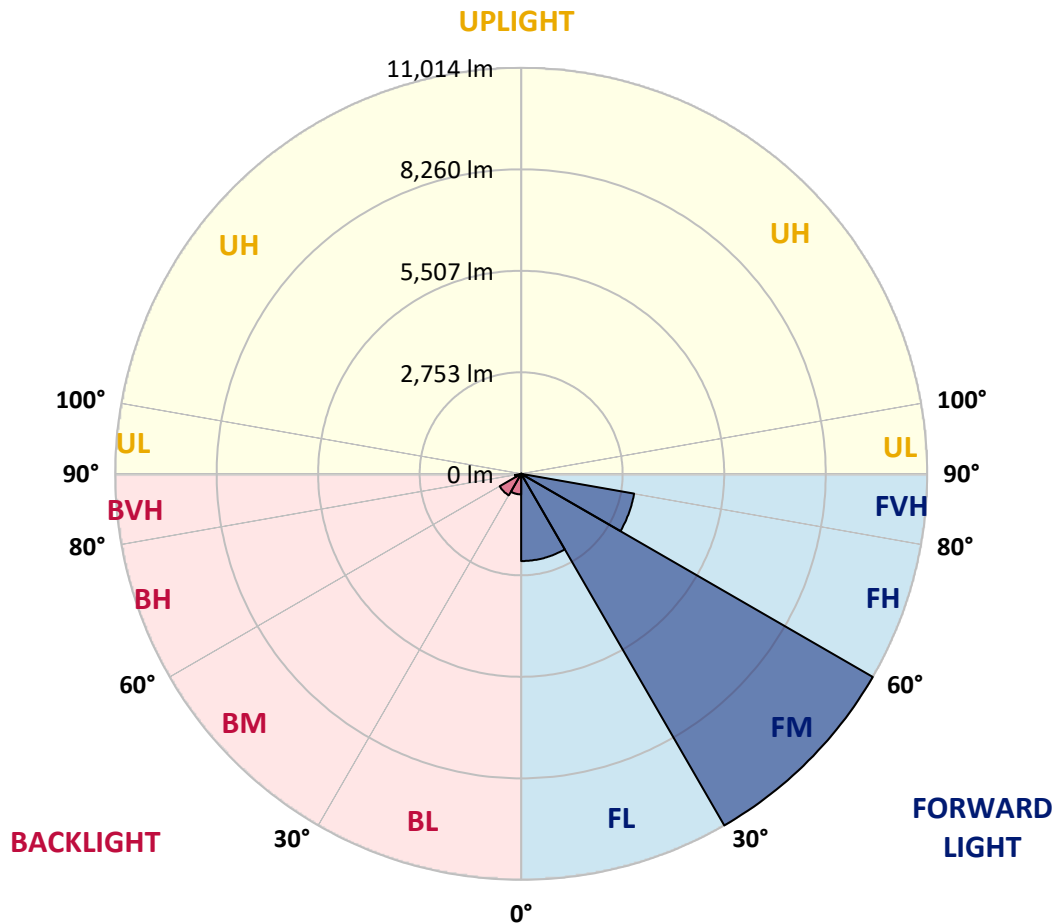
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2366.4	13.2			
FM	(30°-60°)	11013.8	61.5			
FH	(60°-80°)	3109.7	17.4			G2/5000
FVH	(80°-90°)	30.6	0.2			G1/100
BL	(0°-30°)	558.7	3.1	B2/1000		
BM	(30°-60°)	672.1	3.8	B1/1000		
BH	(60°-80°)	166.4	0.9	B1/500		G1/500
BVH	(80°-90°)	2.2	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°	4318.3	4318.3	4318.3	4318.3	4318.3	4318.3	4318.3	4318.3	4318.3	4318.3	4318.3
2.5°	5358.1	5290.7	5280.7	5267.5	5139.3	5043.1	4903.9	4751.4	4580.2	4405.6	4328.2
5°	6190.1	6137.1	6127.1	6065.3	5919.4	5755.9	5508.3	5195.6	4876.3	4500.6	4339.3
7.5°	6351.4	6341.5	6386.8	6384.6	6364.7	6235.4	6026.6	5654.2	5174.6	4617.7	4368.0
10°	5632.1	5657.5	5792.3	5910.6	6229.9	6415.5	6370.2	6063.0	5481.8	4751.4	4400.0
12.5°	4976.8	4947.0	5043.1	5176.9	5548.1	6100.6	6512.8	6404.5	5833.2	4902.8	4447.6
15°	4565.8	4553.6	4607.8	4669.7	4952.5	5509.5	6347.0	6681.8	6171.3	5081.8	4519.4
17.5°	4434.3	4424.4	4440.9	4456.4	4639.8	5070.8	5952.6	6852.0	6495.1	5286.2	4598.9
20°	4541.5	4528.2	4526.0	4513.9	4590.1	4884.0	5595.6	6864.2	6785.7	5471.9	4667.5
22.5°	4854.2	4838.7	4784.6	4736.0	4742.6	4909.4	5436.5	6742.6	7004.5	5645.4	4710.5
25°	5421.1	5395.6	5282.9	5119.4	5015.5	5086.2	5460.8	6582.4	7213.3	5781.3	4689.6
27.5°	6130.5	6097.3	5952.6	5709.5	5471.9	5385.7	5636.5	6471.9	7386.8	5885.1	4644.2
30°	6825.5	6782.4	6639.9	6450.9	6103.9	5832.1	5953.7	6520.5	7593.5	5993.4	4584.6
32.5°	7575.8	7534.9	7345.9	7111.7	6824.4	6458.6	6387.9	6758.1	7846.5	6144.8	4542.6
35°	8525.0	8460.9	8192.4	7873.0	7568.0	7197.9	6975.8	7168.0	8183.5	6375.8	4565.8
37.5°	9605.6	9519.4	9229.9	8789.0	8391.3	7976.9	7691.8	7731.6	8677.4	6685.2	4637.6
40°	10624.4	10546.0	10278.6	9863.1	9363.6	8860.9	8557.0	8468.6	9359.2	7062.0	4763.6
42.5°	11235.5	11164.8	11052.1	10876.4	10455.4	9942.6	9559.2	9368.1	10165.9	7512.8	4917.2
45°	11269.7	11207.9	11359.2	11563.7	11480.8	11139.3	10671.9	10321.7	10975.8	7936.0	5076.3
47.5°	10721.7	10679.7	11139.3	11853.2	12209.0	12352.6	11921.7	11195.7	11644.3	8239.9	5141.5
50°	9227.7	9212.3	10158.1	11468.6	12486.3	13415.6	13239.9	12009.0	12162.6	8396.8	5079.6
52.5°	8001.2	7944.8	8496.2	10237.7	12083.0	13974.7	14528.3	12806.8	12525.0	8426.6	4934.9
55°	6068.6	6018.8	6710.6	8178.0	10782.4	13775.8	15470.9	13630.0	12784.7	8350.4	4675.2
57.5°	3255.3	3224.3	4098.4	5443.2	8428.8	12582.5	15641.1	14500.7	13003.5	8148.2	4311.6
60°	1267.4	1261.9	1589.0	2640.9	5122.7	10236.6	14782.5	15023.4	13140.5	7899.5	4007.8
62.5°	766.9	783.4	836.5	1185.6	2263.0	6359.2	12803.5	14428.9	13232.2	7671.9	3756.9
65°	634.3	635.4	642.0	814.4	1084.0	2660.8	9638.8	12473.1	13005.7	7266.4	3401.1
67.5°	543.7	553.6	579.0	646.4	764.6	1166.9	5549.2	9662.0	11627.7	6322.7	2846.4
70°	428.7	442.0	474.0	531.5	590.1	730.4	2050.9	6428.8	8883.0	4765.8	2152.5
72.5°	361.3	360.2	376.8	432.0	468.5	513.8	789.0	3602.2	5162.5	2275.2	1065.2
75°	279.6	290.6	311.6	361.3	383.4	372.4	427.6	1316.0	1849.7	689.5	362.4
77.5°	218.8	227.6	246.4	295.0	317.1	264.1	246.4	470.7	594.5	247.5	163.5
80°	98.3	106.1	168.0	217.7	258.6	182.3	133.7	240.9	264.1	112.7	82.9
82.5°	17.7	29.8	98.3	114.9	132.6	118.2	69.6	124.9	129.3	45.3	28.7
85°	1.1	2.2	34.3	42.0	53.0	38.7	21.0	49.7	43.1	15.5	11.0
87.5°	0.0	0.0	0.0	1.1	1.1	5.5	6.6	8.8	6.6	5.5	4.4
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°	4318.3	4318.3	4318.3	4318.3	4318.3	4318.3	4318.3	4318.3	4318.3	4318.3
2.5°	4248.7	4091.8	3939.3	3814.4	3741.5	3617.7	3535.9	3522.7	3488.4	3518.3
5°	4166.9	3886.2	3602.2	3348.1	3139.3	2869.6	2668.5	2583.5	2509.4	2534.8
7.5°	4128.2	3685.1	3243.1	2808.9	2362.5	1931.5	1611.1	1477.4	1375.7	1390.1
10°	4076.3	3476.3	2783.5	2120.5	1522.7	1097.2	876.3	794.5	749.2	750.3
12.5°	4036.5	3226.6	2249.7	1437.6	927.1	700.6	632.1	612.2	598.9	600.0
15°	4016.6	2932.6	1722.7	958.0	663.0	593.4	576.8	568.0	559.1	558.0
17.5°	3983.5	2605.6	1260.8	699.5	580.1	555.8	541.4	531.5	520.4	518.2
20°	3933.7	2234.3	921.6	591.2	543.7	524.9	505.0	491.7	478.5	476.2
22.5°	3842.0	1842.0	708.3	547.0	517.1	496.1	471.8	456.4	443.1	440.9
25°	3671.9	1474.0	596.7	519.3	493.9	468.5	442.0	421.0	408.8	406.6
27.5°	3456.4	1158.0	541.4	493.9	464.1	440.9	411.1	391.2	380.1	377.9
30°	3202.2	891.7	509.4	465.2	428.7	408.8	382.3	365.7	359.1	359.1
32.5°	2928.2	712.7	496.1	436.5	397.8	375.7	354.7	348.1	345.9	344.8
35°	2670.7	618.8	489.5	413.3	370.2	349.2	340.3	341.4	345.9	345.9
37.5°	2442.0	589.0	486.2	396.7	345.9	327.1	332.6	342.5	338.1	338.1
40°	2235.4	592.3	484.0	384.5	326.0	314.9	326.0	318.2	307.2	306.1
42.5°	2077.4	619.9	479.6	374.6	313.8	306.1	301.7	289.5	288.4	290.6
45°	1962.5	644.2	478.5	370.2	300.6	286.2	280.7	268.5	290.6	296.1
47.5°	1826.5	644.2	478.5	354.7	278.5	272.9	264.1	250.8	272.9	278.5
50°	1650.8	603.3	459.7	337.0	260.8	257.5	242.0	225.4	221.0	224.3
52.5°	1428.7	529.3	412.2	312.7	243.1	236.5	217.7	205.5	202.2	202.2
55°	1175.7	443.1	348.1	277.4	224.3	212.2	198.9	193.4	190.1	187.8
57.5°	955.8	363.5	279.6	246.4	206.6	191.2	186.7	180.1	174.6	171.3
60°	784.5	286.2	230.9	218.8	189.0	174.6	173.5	164.6	150.3	148.1
62.5°	605.5	209.9	194.5	190.1	171.3	159.1	156.9	139.2	117.1	112.7
65°	427.6	163.5	156.9	166.9	152.5	141.4	135.9	109.4	86.2	82.9
67.5°	300.6	137.0	123.8	145.9	132.6	118.2	114.9	92.8	71.8	69.6
70°	214.4	111.6	101.7	124.9	106.1	103.9	97.2	77.3	58.6	56.4
72.5°	151.4	85.1	78.5	108.3	72.9	89.5	79.6	59.7	44.2	42.0
75°	111.6	60.8	55.2	63.0	53.0	67.4	56.4	39.8	27.6	26.5
77.5°	81.8	38.7	33.1	30.9	30.9	42.0	30.9	16.6	12.2	11.0
80°	57.5	17.7	15.5	13.3	12.2	9.9	4.4	2.2	1.1	1.1
82.5°	34.3	7.7	7.7	5.5	3.3	0.0	0.0	0.0	0.0	0.0
85°	7.7	3.3	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	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)