

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: P948759

Luminaire Tested: **GALN-SB3D-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948759
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-SB3D-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA 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: 21505 lumens
Efficiency: N/A
Efficacy: 98.6 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): 218.1
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

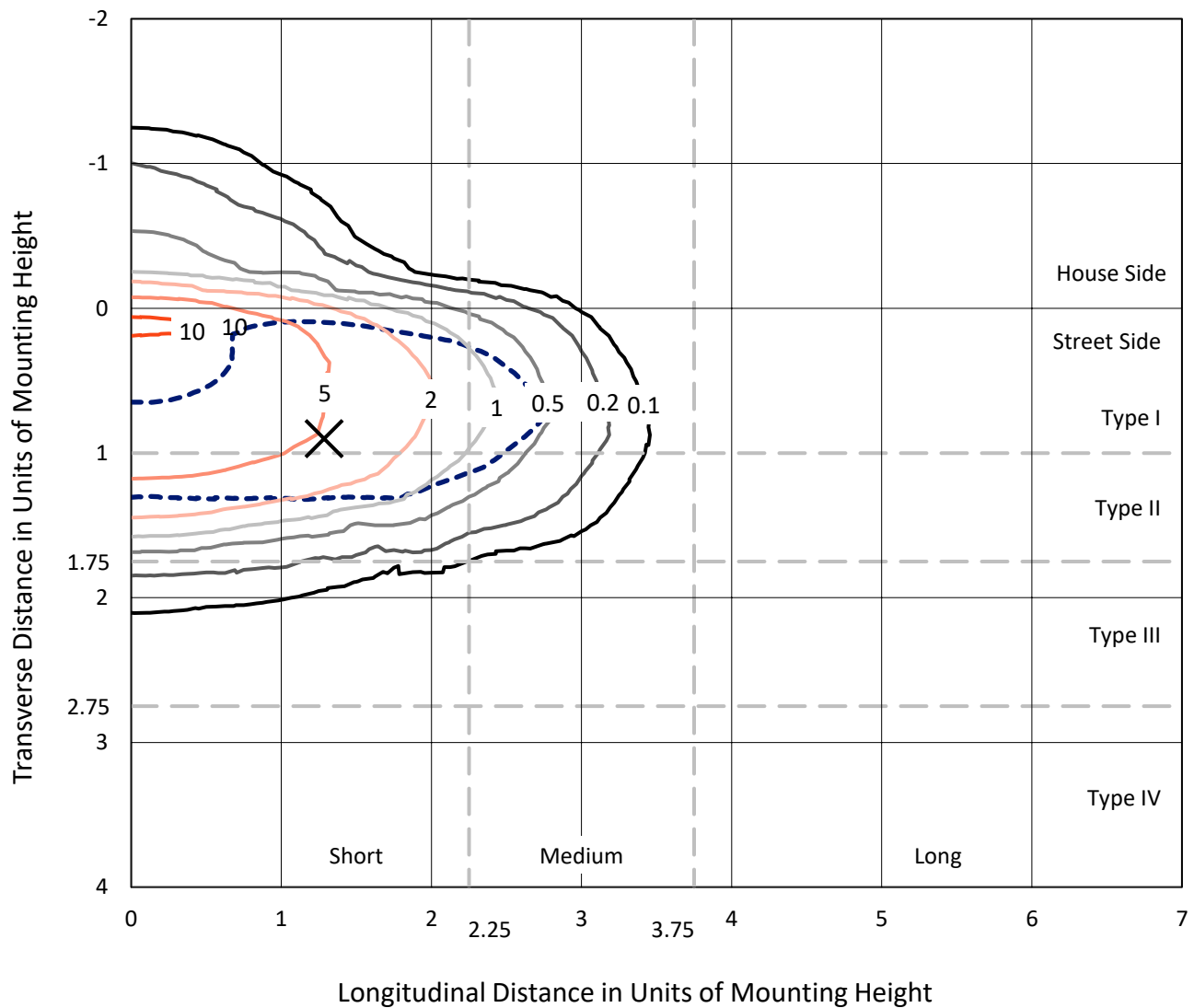


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Iso-Footcandle Lines of Horizontal Illumination

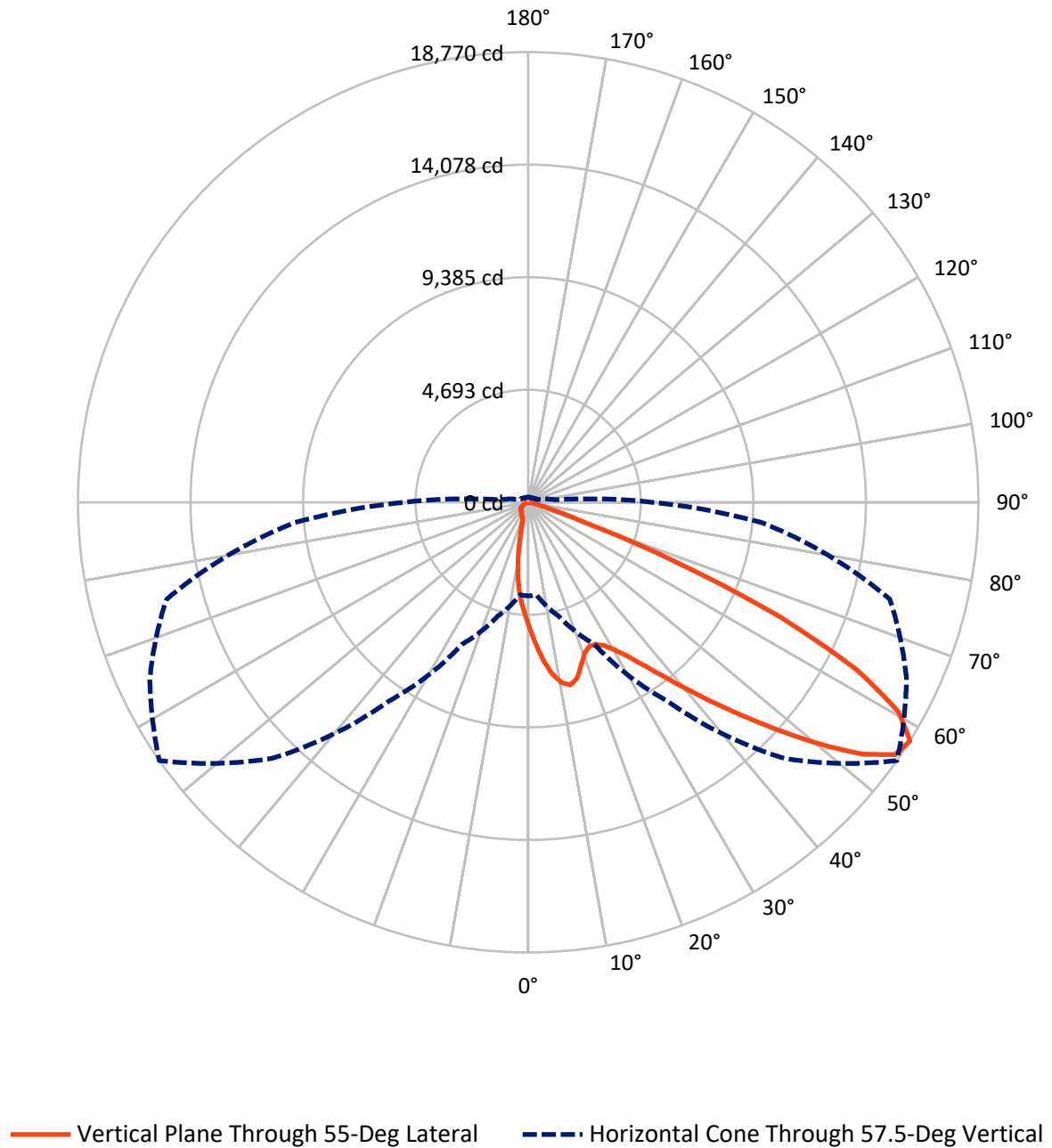
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	1679.4	0.0	1679.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	19825.5	0.0	19825.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	21505.0	0.0	21505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.2	2.2
10°-20°	1164.7	5.4
20°-30°	1863.5	8.7
30°-40°	3154.1	14.7
40°-50°	5178.3	24.1
50°-60°	5691.3	26.5
60°-70°	3264.5	15.2
70°-80°	667.0	3.1
80°-90°	39.3	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°	21505.0	100.0
0°-180°	21505.0	100.0

Coefficient of Utilization



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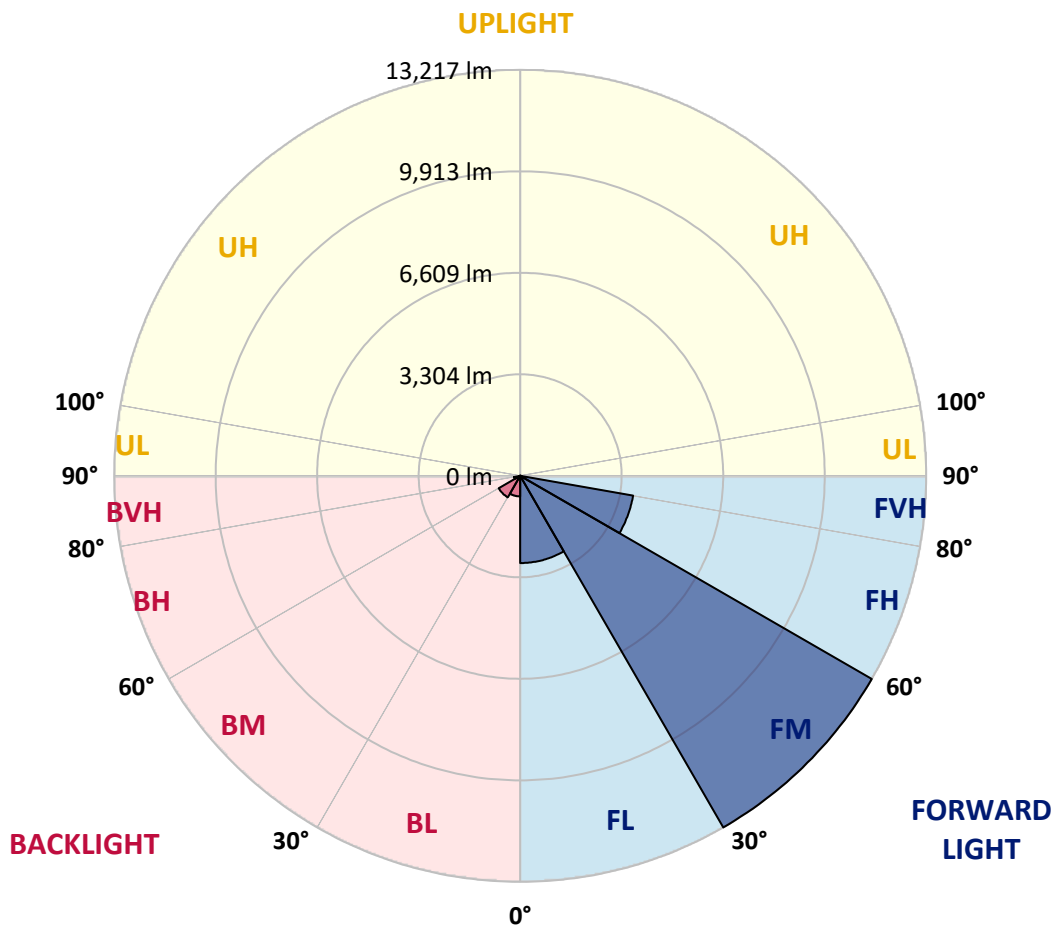
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2839.9	13.2			
FM	(30°-60°)	13217.1	61.5			
FH	(60°-80°)	3731.9	17.4			G2/5000
FVH	(80°-90°)	36.7	0.2			G1/100
BL	(0°-30°)	670.5	3.1	B2/1000		
BM	(30°-60°)	806.6	3.8	B1/1000		
BH	(60°-80°)	199.7	0.9	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2
2.5°	6430.0	6349.1	6337.2	6321.2	6167.4	6052.1	5885.0	5702.0	5496.4	5286.9	5194.1
5°	7428.5	7364.8	7352.9	7278.6	7103.6	6907.4	6610.3	6235.1	5851.8	5401.0	5207.4
7.5°	7622.1	7610.2	7664.5	7661.9	7638.0	7482.9	7232.2	6785.4	6209.9	5541.5	5241.8
10°	6758.8	6789.3	6951.1	7093.0	7476.2	7699.0	7644.6	7276.0	6578.5	5702.0	5280.3
12.5°	5972.5	5936.7	6052.1	6212.5	6658.1	7321.1	7815.7	7685.7	7000.2	5883.7	5337.3
15°	5479.2	5464.6	5529.6	5603.9	5943.3	6611.6	7616.8	8018.6	7405.9	6098.5	5423.5
17.5°	5321.4	5309.5	5329.4	5347.9	5568.1	6085.2	7143.4	8222.8	7794.5	6343.8	5519.0
20°	5450.0	5434.1	5431.5	5416.9	5508.4	5861.1	6715.1	8237.4	8143.2	6566.6	5601.2
22.5°	5825.3	5806.7	5741.8	5683.4	5691.4	5891.6	6524.1	8091.5	8405.8	6774.8	5652.9
25°	6505.6	6475.1	6339.8	6143.6	6018.9	6103.8	6553.3	7899.2	8656.4	6937.9	5627.7
27.5°	7356.9	7317.1	7143.4	6851.7	6566.6	6463.1	6764.1	7766.6	8864.6	7062.5	5573.4
30°	8191.0	8139.3	7968.2	7741.4	7325.1	6998.9	7144.7	7825.0	9112.6	7192.5	5501.8
32.5°	9091.3	9042.3	8815.5	8534.4	8189.6	7750.7	7665.9	8110.1	9416.2	7374.1	5451.4
35°	10230.4	10153.5	9831.3	9448.1	9082.1	8637.8	8371.3	8602.0	9820.7	7651.3	5479.2
37.5°	11527.3	11423.9	11076.4	10547.3	10070.0	9572.7	9230.6	9278.3	10413.4	8022.6	5565.4
40°	12749.9	12655.8	12334.8	11836.3	11236.9	10633.5	10268.9	10162.8	11231.6	8474.7	5716.6
42.5°	13483.2	13398.3	13263.1	13052.2	12547.0	11931.7	11471.6	11242.2	12199.6	9015.8	5900.9
45°	13524.3	13450.1	13631.7	13877.0	13777.6	13367.8	12806.9	12386.6	13171.6	9523.6	6091.8
47.5°	12866.6	12816.2	13367.8	14224.5	14651.4	14823.8	14306.7	13435.5	13973.8	9888.3	6170.1
50°	11073.8	11055.2	12190.3	13763.0	14984.3	16099.5	15888.6	14411.4	14595.8	10076.6	6095.8
52.5°	9601.9	9534.2	10195.9	12285.8	14500.3	16770.5	17434.8	15368.8	15030.7	10112.4	5922.1
55°	7282.6	7223.0	8053.1	9814.0	12939.5	16531.8	18565.9	16356.7	15342.3	10020.9	5610.5
57.5°	3906.5	3869.4	4918.3	6532.1	10115.1	15099.6	18770.1	17401.7	15604.9	9778.2	5174.2
60°	1521.0	1514.3	1906.8	3169.2	6147.5	12284.5	17739.8	18028.9	15769.3	9479.9	4809.6
62.5°	920.3	940.2	1003.8	1422.8	2715.7	7631.4	15364.9	17315.5	15879.4	9206.7	4508.5
65°	761.1	762.5	770.4	977.3	1300.8	3193.1	11567.1	14968.4	15607.5	8720.1	4081.6
67.5°	652.4	664.3	694.8	775.7	917.6	1400.3	6659.4	11594.9	13953.9	7587.6	3415.9
70°	514.5	530.4	568.9	637.8	708.1	876.5	2461.1	7714.9	10660.1	5719.2	2583.1
72.5°	433.6	432.3	452.2	518.5	562.2	616.6	946.8	4322.9	6195.3	2730.3	1278.3
75°	335.5	348.7	373.9	433.6	460.1	446.9	513.2	1579.3	2219.8	827.5	434.9
77.5°	262.6	273.2	295.7	354.1	380.6	316.9	295.7	564.9	713.4	297.0	196.3
80°	118.0	127.3	201.6	261.2	310.3	218.8	160.5	289.1	316.9	135.3	99.5
82.5°	21.2	35.8	118.0	137.9	159.1	141.9	83.5	149.8	155.1	54.4	34.5
85°	1.3	2.7	41.1	50.4	63.7	46.4	25.2	59.7	51.7	18.6	13.3
87.5°	0.0	0.0	0.0	1.3	1.3	6.6	8.0	10.6	8.0	6.6	5.3
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°	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2
2.5°	5098.6	4910.3	4727.3	4577.5	4490.0	4341.5	4243.3	4227.4	4186.3	4222.1
5°	5000.5	4663.7	4322.9	4017.9	3767.3	3443.7	3202.4	3100.3	3011.4	3041.9
7.5°	4954.1	4422.4	3891.9	3370.8	2835.1	2317.9	1933.4	1772.9	1650.9	1668.2
10°	4891.8	4171.7	3340.3	2544.7	1827.3	1316.8	1051.6	953.4	899.1	900.4
12.5°	4844.0	3872.0	2699.8	1725.2	1112.5	840.7	758.5	734.6	718.7	720.0
15°	4820.2	3519.3	2067.3	1149.7	795.6	712.1	692.2	681.6	671.0	669.7
17.5°	4780.4	3126.8	1513.0	839.4	696.2	667.0	649.8	637.8	624.6	621.9
20°	4720.7	2681.3	1105.9	709.4	652.4	629.9	606.0	590.1	574.2	571.5
22.5°	4610.7	2210.5	850.0	656.4	620.6	595.4	566.2	547.7	531.7	529.1
25°	4406.4	1768.9	716.1	623.2	592.7	562.2	530.4	505.2	490.6	488.0
27.5°	4147.9	1389.7	649.8	592.7	556.9	529.1	493.3	469.4	456.2	453.5
30°	3842.9	1070.1	611.3	558.3	514.5	490.6	458.8	438.9	431.0	431.0
32.5°	3514.0	855.3	595.4	523.8	477.4	450.9	425.7	417.7	415.1	413.7
35°	3205.0	742.6	587.4	495.9	444.2	419.0	408.4	409.7	415.1	415.1
37.5°	2930.6	706.8	583.5	476.0	415.1	392.5	399.1	411.1	405.8	405.8
40°	2682.6	710.8	580.8	461.5	391.2	377.9	391.2	381.9	368.6	367.3
42.5°	2493.0	743.9	575.5	449.5	376.6	367.3	362.0	347.4	346.1	348.7
45°	2355.1	773.1	574.2	444.2	360.7	343.4	336.8	322.2	348.7	355.4
47.5°	2191.9	773.1	574.2	425.7	334.2	327.5	316.9	301.0	327.5	334.2
50°	1981.1	724.0	551.6	404.4	312.9	309.0	290.4	270.5	265.2	269.2
52.5°	1714.6	635.2	494.6	375.3	291.7	283.8	261.2	246.6	242.7	242.7
55°	1410.9	531.7	417.7	332.8	269.2	254.6	238.7	232.1	228.1	225.4
57.5°	1147.0	436.3	335.5	295.7	248.0	229.4	224.1	216.1	209.5	205.5
60°	941.5	343.4	277.1	262.6	226.8	209.5	208.2	197.6	180.3	177.7
62.5°	726.7	251.9	233.4	228.1	205.5	191.0	188.3	167.1	140.6	135.3
65°	513.2	196.3	188.3	200.2	183.0	169.7	163.1	131.3	103.4	99.5
67.5°	360.7	164.4	148.5	175.0	159.1	141.9	137.9	111.4	86.2	83.5
70°	257.3	133.9	122.0	149.8	127.3	124.6	116.7	92.8	70.3	67.6
72.5°	181.7	102.1	94.1	130.0	87.5	107.4	95.5	71.6	53.0	50.4
75°	133.9	72.9	66.3	75.6	63.7	80.9	67.6	47.7	33.2	31.8
77.5°	98.1	46.4	39.8	37.1	37.1	50.4	37.1	19.9	14.6	13.3
80°	69.0	21.2	18.6	15.9	14.6	11.9	5.3	2.7	1.3	1.3
82.5°	41.1	9.3	9.3	6.6	4.0	0.0	0.0	0.0	0.0	0.0
85°	9.3	4.0	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	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)