

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: P951615

Luminaire Tested: **GALN-SB5D-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951615
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-SB5D-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 36206 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 364.9
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

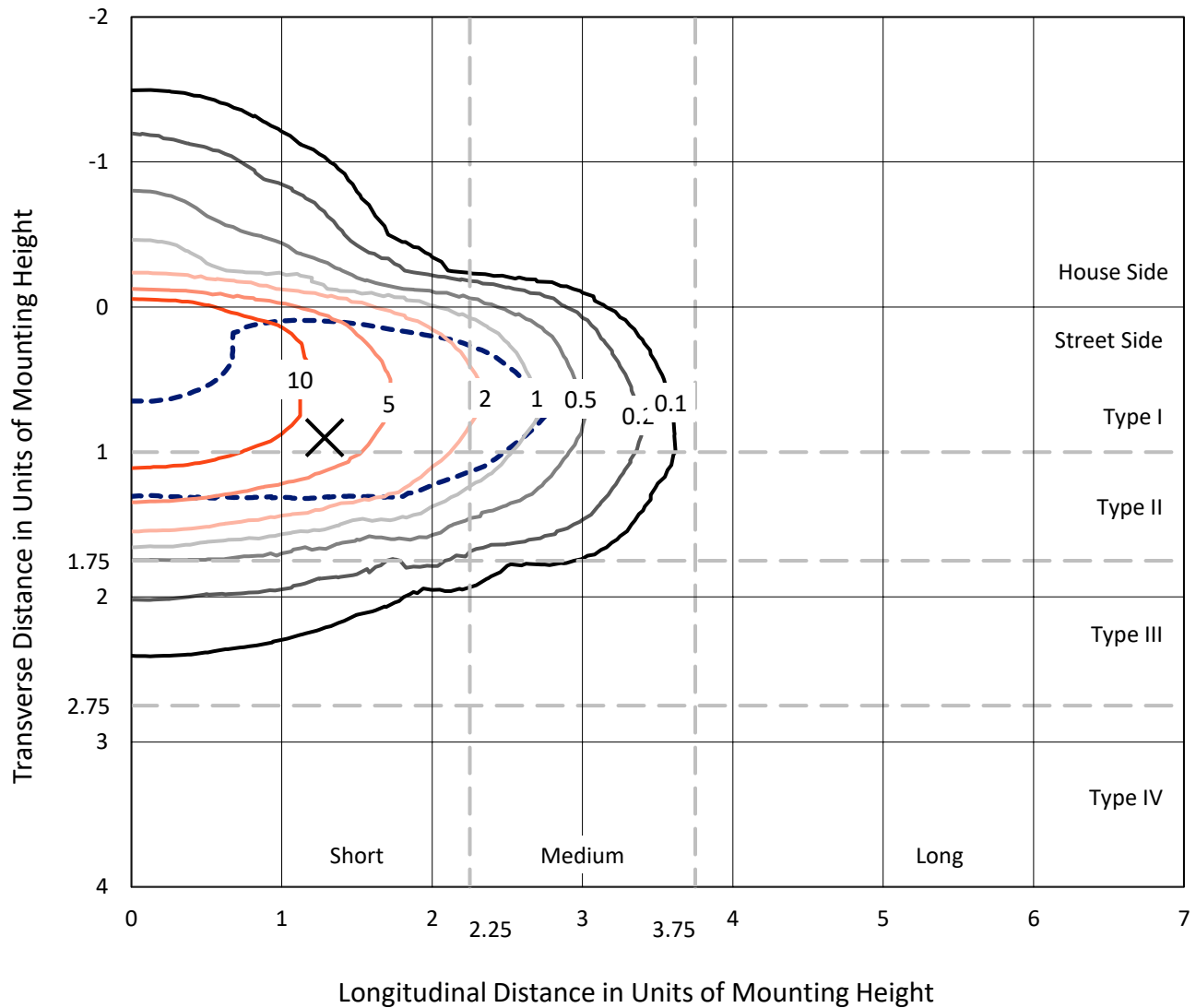


REPORT NUMBER: P951615

CATALOG NUMBER: GALN-SB5D-722-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

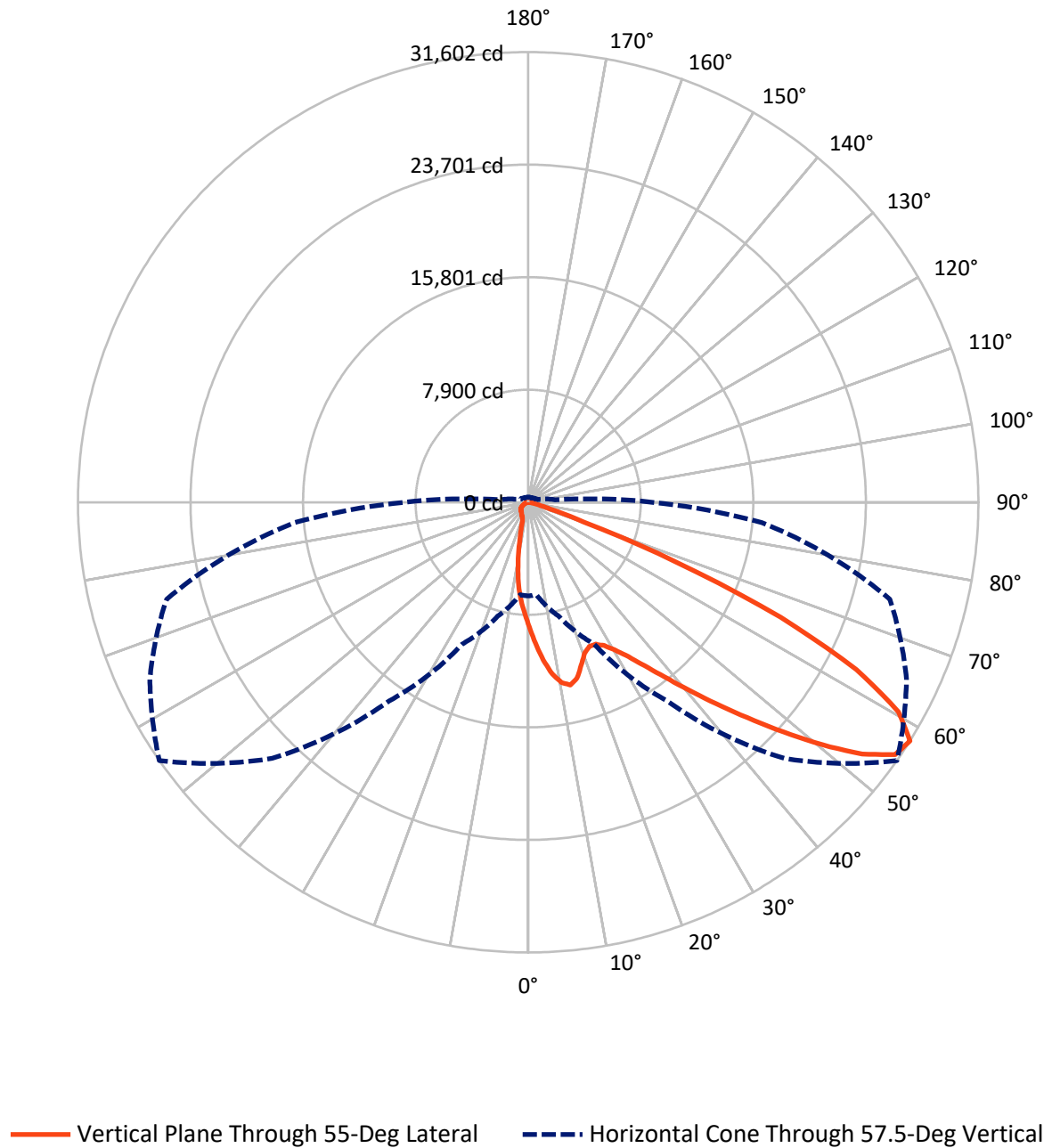
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
Type II - Short - N/A

REPORT NUMBER: P951615
CATALOG NUMBER: GALN-SB5D-722-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P951615

CATALOG NUMBER: GALN-SB5D-722-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2827.5	0.0	2827.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	33378.5	0.0	33378.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	36206.0	0.0	36206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.8	2.2
10°-20°	1960.9	5.4
20°-30°	3137.4	8.7
30°-40°	5310.2	14.7
40°-50°	8718.2	24.1
50°-60°	9582.0	26.5
60°-70°	5496.2	15.2
70°-80°	1123.0	3.1
80°-90°	66.2	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°	36206.0	100.0
0°-180°	36206.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951615

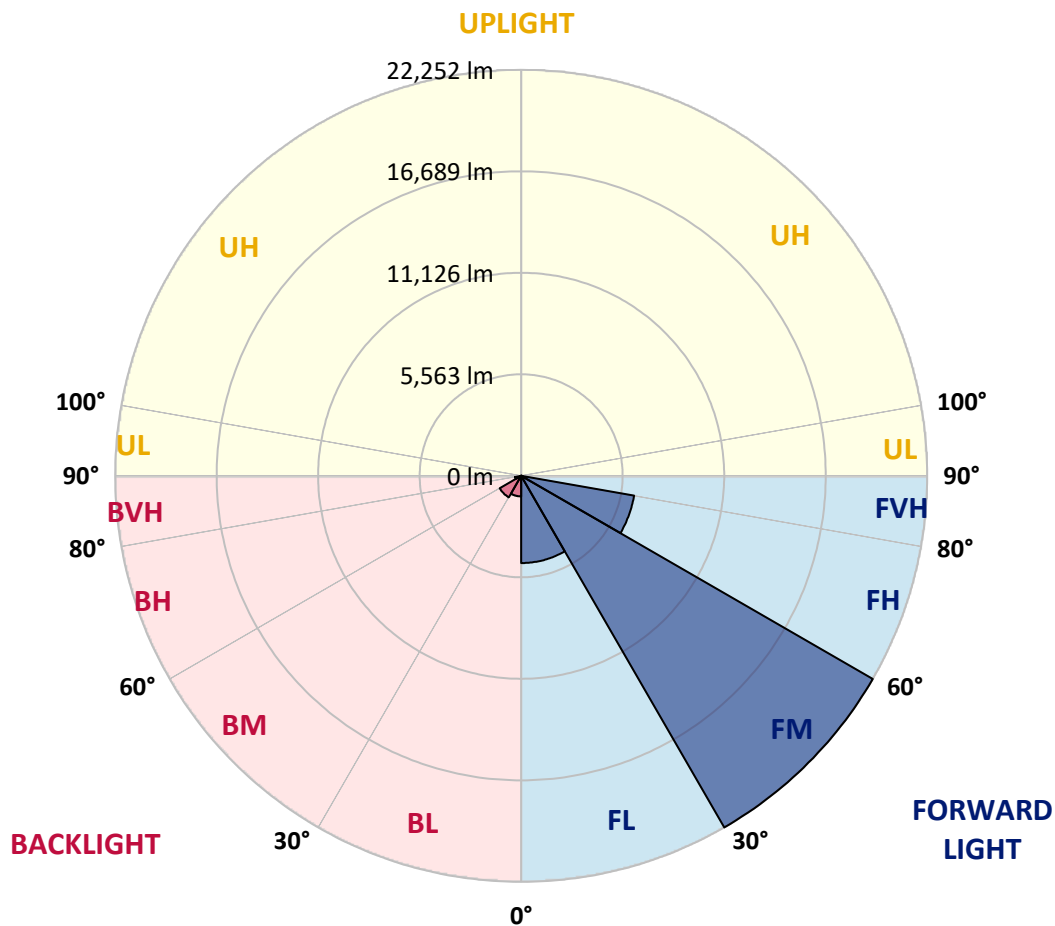
CATALOG NUMBER: GALN-SB5D-722-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4781.2	13.2			
FM	(30°-60°)	22252.5	61.5			
FH	(60°-80°)	6283.0	17.4			G3/7500
FVH	(80°-90°)	61.8	0.2			G1/100
BL	(0°-30°)	1128.8	3.1	B3/2500		
BM	(30°-60°)	1358.0	3.8	B2/2500		
BH	(60°-80°)	336.3	0.9	B1/500		G1/500
BVH	(80°-90°)	4.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P951615

CATALOG NUMBER: GALN-SB5D-722-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8724.8	8724.8	8724.8	8724.8	8724.8	8724.8	8724.8	8724.8	8724.8	8724.8	8724.8
2.5°	10825.6	10689.4	10669.3	10642.5	10383.5	10189.3	9908.0	9599.9	9253.9	8901.1	8744.8
5°	12506.7	12399.5	12379.4	12254.4	11959.7	11629.3	11129.2	10497.4	9852.2	9093.1	8767.2
7.5°	12832.6	12812.5	12904.1	12899.6	12859.4	12598.2	12176.3	11423.9	10455.0	9329.8	8825.2
10°	11379.2	11430.6	11703.0	11941.8	12587.0	12962.1	12870.6	12249.9	11075.6	9599.9	8890.0
12.5°	10055.3	9995.1	10189.3	10459.4	11209.6	12325.8	13158.6	12939.8	11785.6	9905.8	8986.0
15°	9224.8	9200.3	9309.7	9434.7	10006.2	11131.4	12823.7	13500.1	12468.7	10267.4	9131.1
17.5°	8959.2	8939.1	8972.6	9003.8	9374.4	10245.1	12026.7	13844.0	13122.9	10680.5	9291.8
20°	9175.7	9148.9	9144.5	9119.9	9274.0	9867.8	11305.6	13868.5	13710.0	11055.5	9430.2
22.5°	9807.5	9776.3	9666.9	9568.7	9582.0	9919.2	10984.1	13622.9	14152.1	11406.0	9517.3
25°	10952.8	10901.5	10673.8	10343.3	10133.5	10276.4	11033.2	13299.2	14574.0	11680.6	9474.9
27.5°	12386.1	12319.1	12026.7	11535.5	11055.5	10881.4	11388.2	13076.0	14924.5	11890.5	9383.4
30°	13790.4	13703.3	13415.3	13033.5	12332.5	11783.3	12028.9	13174.2	15342.0	12109.3	9262.8
32.5°	15306.3	15223.7	14841.9	14368.6	13788.1	13049.2	12906.3	13654.2	15853.2	12415.1	9178.0
35°	17224.0	17094.5	16552.0	15906.8	15290.6	14542.7	14094.0	14482.5	16534.2	12881.7	9224.8
37.5°	19407.4	19233.3	18648.4	17757.6	16953.9	16116.7	15540.7	15621.1	17532.1	13506.8	9370.0
40°	21465.8	21307.3	20767.1	19927.6	18918.5	17902.7	17288.8	17110.2	18909.6	14268.1	9624.5
42.5°	22700.4	22557.6	22329.8	21974.9	21124.3	20088.4	19313.7	18927.4	20539.3	15179.0	9934.8
45°	22769.6	22644.6	22950.5	23363.5	23196.1	22506.2	21561.8	20854.1	22175.8	16034.1	10256.3
47.5°	21662.3	21577.5	22506.2	23948.4	24667.3	24957.5	24086.8	22620.1	23526.5	16648.0	10388.0
50°	18643.9	18612.7	20523.7	23171.5	25227.7	27105.2	26750.3	24263.2	24573.5	16965.0	10263.0
52.5°	16165.8	16051.9	17166.0	20684.5	24412.8	28234.9	29353.4	25875.1	25305.8	17025.3	9970.5
55°	12261.1	12160.6	13558.2	16523.0	21785.1	27833.0	31257.7	27538.3	25830.5	16871.3	9445.9
57.5°	6577.1	6514.5	8280.5	10997.5	17029.8	25421.9	31601.6	29297.6	26272.5	16462.7	8711.4
60°	2560.7	2549.6	3210.4	5335.8	10350.0	20682.2	29866.9	30353.6	26549.3	15960.4	8097.4
62.5°	1549.4	1582.9	1690.0	2395.5	4572.2	12848.2	25868.4	29152.5	26734.6	15500.5	7590.6
65°	1281.5	1283.7	1297.1	1645.4	2190.1	5375.9	19474.4	25200.9	26277.0	14681.2	6871.7
67.5°	1098.4	1118.5	1169.8	1306.0	1544.9	2357.6	11211.8	19521.3	23493.0	12774.6	5751.0
70°	866.2	893.0	957.8	1073.9	1192.2	1475.7	4143.6	12988.9	17947.4	9628.9	4349.0
72.5°	730.0	727.8	761.3	872.9	946.6	1038.1	1594.0	7278.1	10430.4	4596.8	2152.2
75°	564.8	587.2	629.6	730.0	774.7	752.4	864.0	2659.0	3737.3	1393.1	732.3
77.5°	442.0	459.9	497.9	596.1	640.7	533.6	497.9	951.1	1201.1	500.1	330.4
80°	198.7	214.3	339.3	439.8	522.4	368.4	270.1	486.7	533.6	227.7	167.4
82.5°	35.7	60.3	198.7	232.2	267.9	238.9	140.6	252.3	261.2	91.5	58.0
85°	2.2	4.5	69.2	84.8	107.2	78.1	42.4	100.5	87.1	31.3	22.3
87.5°	0.0	0.0	0.0	2.2	2.2	11.2	13.4	17.9	13.4	11.2	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951615

CATALOG NUMBER: GALN-SB5D-722-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8724.8	8724.8	8724.8	8724.8	8724.8	8724.8	8724.8	8724.8	8724.8	8724.8
2.5°	8584.1	8267.1	7959.0	7706.7	7559.4	7309.3	7144.1	7117.3	7048.1	7108.4
5°	8418.9	7851.8	7278.1	6764.6	6342.6	5797.9	5391.6	5219.7	5070.1	5121.4
7.5°	8340.8	7445.5	6552.5	5675.1	4773.2	3902.5	3255.0	2984.9	2779.5	2808.5
10°	8235.8	7023.6	5623.8	4284.2	3076.4	2216.9	1770.4	1605.2	1513.7	1515.9
12.5°	8155.5	6519.0	4545.4	2904.5	1873.1	1415.4	1277.0	1236.8	1210.0	1212.3
15°	8115.3	5925.2	3480.5	1935.6	1339.5	1198.9	1165.4	1147.5	1129.7	1127.4
17.5°	8048.3	5264.3	2547.3	1413.2	1172.1	1123.0	1093.9	1073.9	1051.5	1047.1
20°	7947.8	4514.2	1861.9	1194.4	1098.4	1060.5	1020.3	993.5	966.7	962.2
22.5°	7762.5	3721.6	1431.1	1105.1	1044.8	1002.4	953.3	922.0	895.2	890.8
25°	7418.7	2978.2	1205.6	1049.3	997.9	946.6	893.0	850.6	826.0	821.6
27.5°	6983.4	2339.7	1093.9	997.9	937.7	890.8	830.5	790.3	768.0	763.5
30°	6469.9	1801.7	1029.2	939.9	866.2	826.0	772.5	739.0	725.6	725.6
32.5°	5916.2	1440.0	1002.4	881.9	803.7	759.1	716.6	703.2	698.8	696.6
35°	5396.0	1250.2	989.0	835.0	747.9	705.5	687.6	689.9	698.8	698.8
37.5°	4933.9	1189.9	982.3	801.5	698.8	660.8	672.0	692.1	683.2	683.2
40°	4516.4	1196.6	977.9	776.9	658.6	636.3	658.6	643.0	620.6	618.4
42.5°	4197.2	1252.5	968.9	756.8	634.0	618.4	609.5	584.9	582.7	587.2
45°	3965.0	1301.6	966.7	747.9	607.3	578.2	567.1	542.5	587.2	598.3
47.5°	3690.4	1301.6	966.7	716.6	562.6	551.4	533.6	506.8	551.4	562.6
50°	3335.4	1219.0	928.7	680.9	526.9	520.2	488.9	455.4	446.5	453.2
52.5°	2886.7	1069.4	832.7	631.8	491.2	477.8	439.8	415.3	408.6	408.6
55°	2375.4	895.2	703.2	560.4	453.2	428.6	401.9	390.7	384.0	379.5
57.5°	1931.1	734.5	564.8	497.9	417.5	386.2	377.3	363.9	352.7	346.0
60°	1585.1	578.2	466.6	442.0	381.8	352.7	350.5	332.6	303.6	299.2
62.5°	1223.4	424.2	392.9	384.0	346.0	321.5	317.0	281.3	236.6	227.7
65°	864.0	330.4	317.0	337.1	308.1	285.8	274.6	221.0	174.1	167.4
67.5°	607.3	276.8	250.0	294.7	267.9	238.9	232.2	187.5	145.1	140.6
70°	433.1	225.5	205.4	252.3	214.3	209.9	196.5	156.3	118.3	113.9
72.5°	305.9	171.9	158.5	218.8	147.3	180.8	160.7	120.6	89.3	84.8
75°	225.5	122.8	111.6	127.3	107.2	136.2	113.9	80.4	55.8	53.6
77.5°	165.2	78.1	67.0	62.5	62.5	84.8	62.5	33.5	24.6	22.3
80°	116.1	35.7	31.3	26.8	24.6	20.1	8.9	4.5	2.2	2.2
82.5°	69.2	15.6	15.6	11.2	6.7	0.0	0.0	0.0	0.0	0.0
85°	15.6	6.7	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	2.2	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)