

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: P952707

Luminaire Tested: **GALN-SB6C-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952707
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-SB6C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 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: 35915 lumens
Efficiency: N/A
Efficacy: 119.4 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): 300.9
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

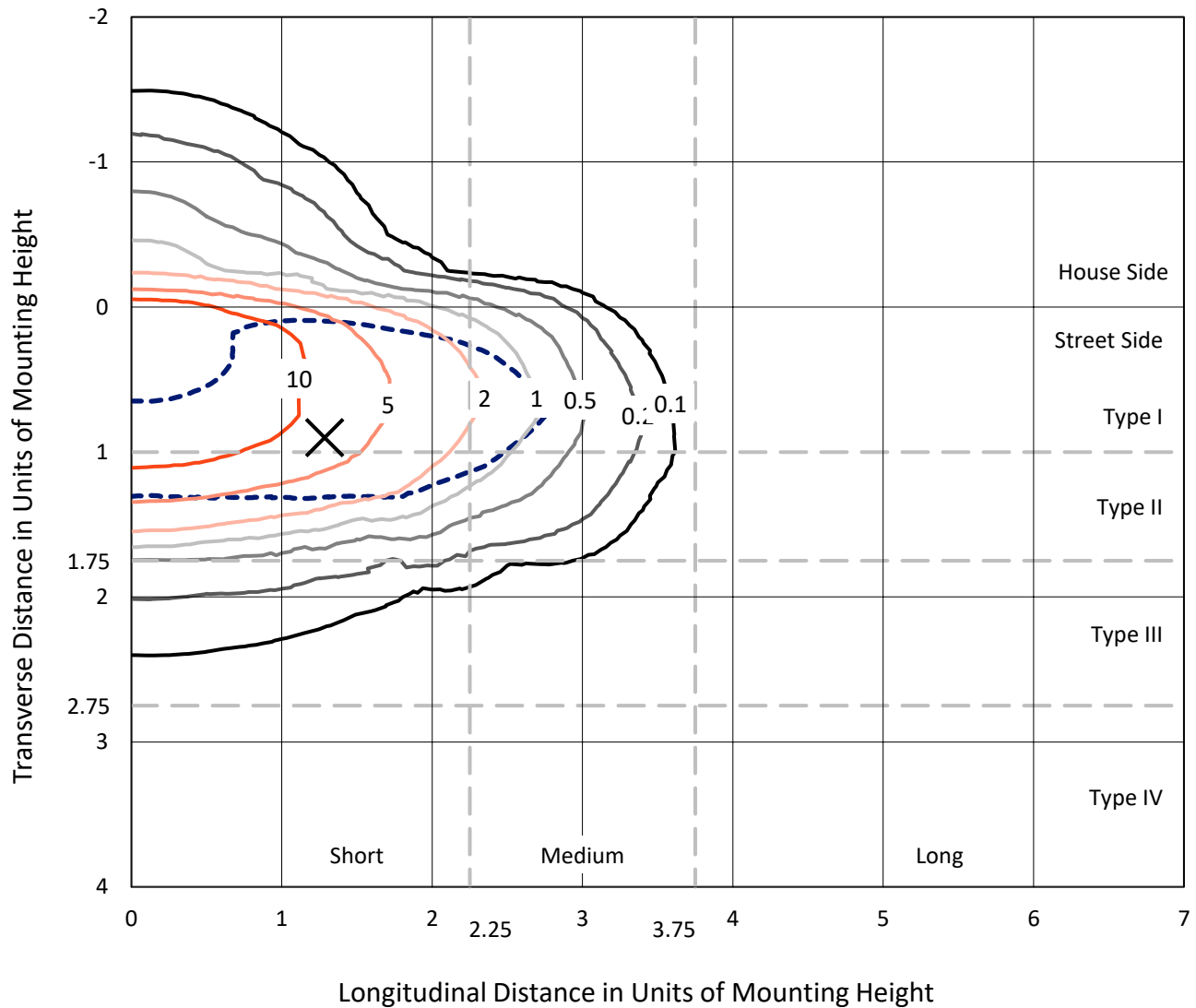


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Iso-Footcandle Lines of Horizontal Illumination

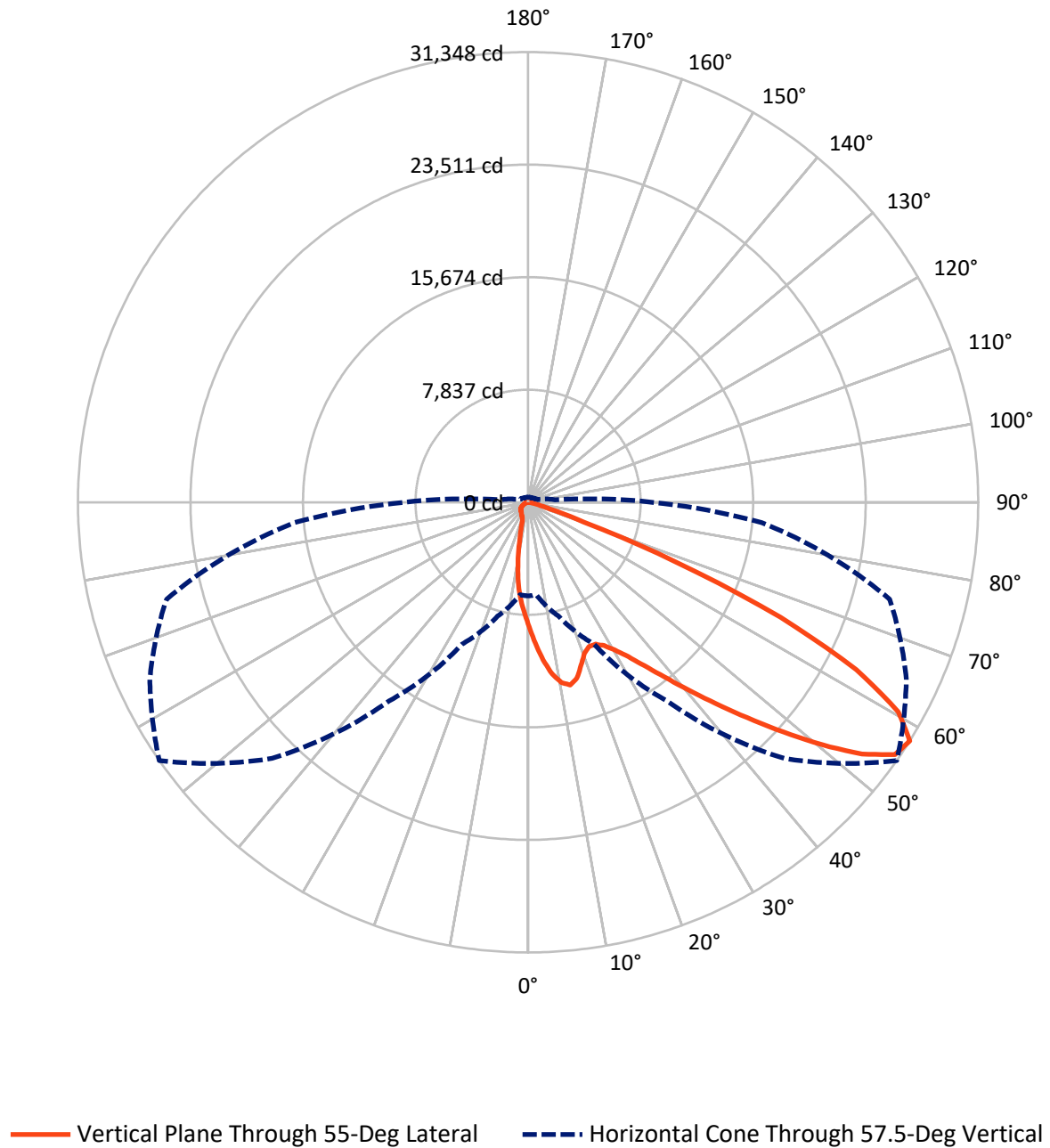
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 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	2804.8	0.0	2804.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	33110.2	0.0	33110.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	35915.0	0.0	35915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	805.3	2.2
10°-20°	1945.1	5.4
20°-30°	3112.2	8.7
30°-40°	5267.5	14.7
40°-50°	8648.2	24.1
50°-60°	9505.0	26.5
60°-70°	5452.0	15.2
70°-80°	1114.0	3.1
80°-90°	65.7	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°	35915.0	100.0
0°-180°	35915.0	100.0

Coefficient of Utilization



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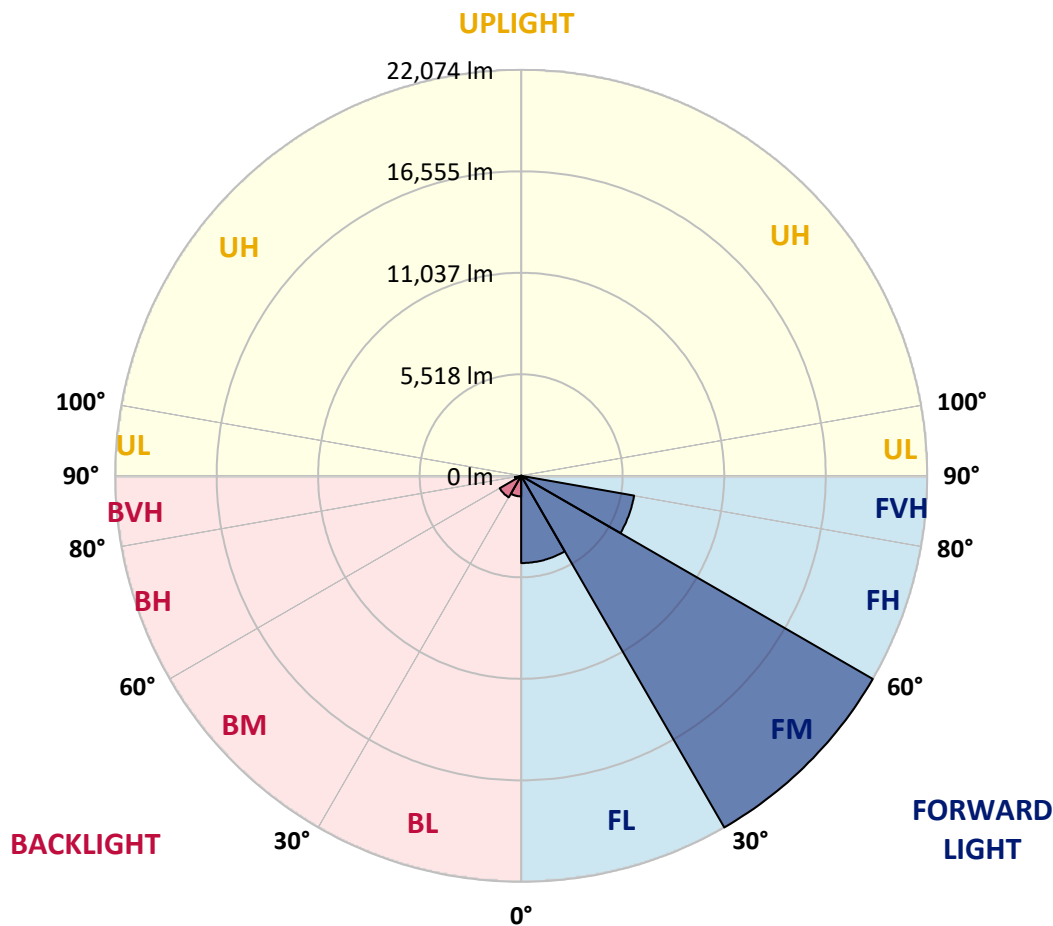
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4742.8	13.2			
FM	(30°-60°)	22073.6	61.5			
FH	(60°-80°)	6232.5	17.4			G3/7500
FVH	(80°-90°)	61.3	0.2			G1/100
BL	(0°-30°)	1119.8	3.1	B3/2500		
BM	(30°-60°)	1347.1	3.8	B2/2500		
BH	(60°-80°)	333.6	0.9	B1/500		G1/500
BVH	(80°-90°)	4.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8654.6	8654.6	8654.6	8654.6	8654.6	8654.6	8654.6	8654.6	8654.6	8654.6	8654.6
2.5°	10738.6	10603.5	10583.5	10557.0	10300.1	10107.4	9828.4	9522.8	9179.5	8829.6	8674.6
5°	12406.2	12299.9	12279.9	12155.9	11863.6	11535.8	11039.7	10413.0	9773.0	9020.0	8696.7
7.5°	12729.5	12709.5	12800.3	12795.9	12756.1	12496.9	12078.4	11332.1	10370.9	9254.8	8754.3
10°	11287.8	11338.7	11608.9	11845.9	12485.9	12857.9	12767.1	12151.5	10986.6	9522.8	8818.5
12.5°	9974.5	9914.7	10107.4	10375.4	11119.5	12226.8	13052.8	12835.8	11690.8	9826.1	8913.7
15°	9150.7	9126.3	9234.9	9358.9	9925.8	11042.0	12720.6	13391.6	12368.5	10184.9	9057.7
17.5°	8887.2	8867.2	8900.4	8931.5	9299.1	10162.8	11930.0	13732.7	13017.4	10594.6	9217.1
20°	9102.0	9075.4	9071.0	9046.6	9199.4	9788.5	11214.7	13757.1	13599.8	10966.7	9354.4
22.5°	9728.7	9697.7	9589.2	9491.7	9505.0	9839.4	10895.8	13513.4	14038.3	11314.4	9440.8
25°	10864.8	10813.9	10588.0	10260.2	10052.0	10193.8	10944.5	13192.3	14456.9	11586.8	9398.7
27.5°	12286.6	12220.1	11930.0	11442.8	10966.7	10793.9	11296.6	12970.9	14804.6	11794.9	9307.9
30°	13679.5	13593.2	13307.5	12928.8	12233.4	11688.6	11932.2	13068.3	15218.7	12012.0	9188.3
32.5°	15183.3	15101.3	14722.6	14253.1	13677.3	12944.3	12802.6	13544.5	15725.8	12315.4	9104.2
35°	17085.6	16957.1	16419.0	15779.0	15167.7	14425.9	13980.7	14366.1	16401.3	12778.2	9150.7
37.5°	19251.5	19078.7	18498.5	17614.9	16817.6	15987.1	15415.8	15495.5	17391.2	13398.3	9294.6
40°	21293.3	21136.1	20600.1	19767.5	18766.5	17758.8	17149.8	16972.6	18757.6	14153.5	9547.1
42.5°	22518.0	22376.2	22150.4	21798.2	20954.5	19926.9	19158.4	18775.3	20374.3	15057.0	9854.9
45°	22586.6	22462.6	22766.0	23175.7	23009.6	22325.3	21388.5	20686.5	21997.6	15905.2	10173.8
47.5°	21488.2	21404.0	22325.3	23755.9	24469.0	24756.9	23893.2	22438.3	23337.4	16514.2	10304.5
50°	18494.1	18463.1	20358.8	22985.3	25024.9	26887.4	26535.3	24068.2	24376.0	16828.7	10180.5
52.5°	16035.9	15922.9	17028.0	20518.2	24216.6	28008.0	29117.5	25667.1	25102.4	16888.5	9890.4
55°	12162.5	12062.9	13449.2	16390.2	21610.0	27609.3	31006.5	27317.0	25622.8	16735.7	9369.9
57.5°	6524.2	6462.2	8213.9	10909.1	16892.9	25217.6	31347.6	29062.1	26061.3	16330.4	8641.3
60°	2540.1	2529.1	3184.6	5292.9	10266.9	20516.0	29626.8	30109.6	26335.9	15832.1	8032.3
62.5°	1536.9	1570.1	1676.4	2376.3	4535.5	12745.0	25660.5	28918.2	26519.8	15375.9	7529.6
65°	1271.2	1273.4	1286.7	1632.2	2172.5	5332.7	19317.9	24998.3	26065.8	14563.2	6816.5
67.5°	1089.6	1109.5	1160.4	1295.5	1532.5	2338.6	11121.7	19364.4	23304.2	12671.9	5704.8
70°	859.3	885.8	950.1	1065.2	1182.6	1463.8	4110.3	12884.5	17803.1	9551.5	4314.0
72.5°	724.2	722.0	755.2	865.9	939.0	1029.8	1581.2	7219.6	10346.6	4559.8	2134.9
75°	560.3	582.4	624.5	724.2	768.5	746.3	857.0	2637.6	3707.2	1381.9	726.4
77.5°	438.5	456.2	493.9	591.3	635.6	529.3	493.9	943.4	1191.5	496.1	327.8
80°	197.1	212.6	336.6	436.3	518.2	365.4	268.0	482.8	529.3	225.9	166.1
82.5°	35.4	59.8	197.1	230.3	265.8	237.0	139.5	250.2	259.1	90.8	57.6
85°	2.2	4.4	68.7	84.2	106.3	77.5	42.1	99.7	86.4	31.0	22.1
87.5°	0.0	0.0	0.0	2.2	2.2	11.1	13.3	17.7	13.3	11.1	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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8654.6	8654.6	8654.6	8654.6	8654.6	8654.6	8654.6	8654.6	8654.6	8654.6
2.5°	8515.1	8200.6	7895.0	7644.8	7498.6	7250.6	7086.7	7060.1	6991.5	7051.3
5°	8351.2	7788.7	7219.6	6710.2	6291.7	5751.3	5348.2	5177.7	5029.3	5080.3
7.5°	8273.7	7385.7	6499.8	5629.5	4734.8	3871.1	3228.9	2960.9	2757.2	2786.0
10°	8169.6	6967.1	5578.6	4249.8	3051.7	2199.1	1756.2	1592.3	1501.5	1503.7
12.5°	8089.9	6466.6	4508.9	2881.2	1858.0	1404.1	1266.7	1226.9	1200.3	1202.5
15°	8050.0	5877.5	3452.6	1920.1	1328.8	1189.2	1156.0	1138.3	1120.6	1118.4
17.5°	7983.6	5222.0	2526.9	1401.8	1162.7	1113.9	1085.2	1065.2	1043.1	1038.6
20°	7884.0	4477.9	1847.0	1184.8	1089.6	1051.9	1012.1	985.5	958.9	954.5
22.5°	7700.1	3691.7	1419.6	1096.2	1036.4	994.4	945.6	914.6	888.1	883.6
25°	7359.1	2954.3	1195.9	1040.9	989.9	939.0	885.8	843.8	819.4	815.0
27.5°	6927.2	2320.9	1085.2	989.9	930.1	883.6	823.8	784.0	761.8	757.4
30°	6417.9	1787.2	1020.9	932.3	859.3	819.4	766.2	733.0	719.7	719.7
32.5°	5868.7	1428.4	994.4	874.8	797.3	753.0	710.9	697.6	693.2	691.0
35°	5352.7	1240.2	981.1	828.3	741.9	699.8	682.1	684.3	693.2	693.2
37.5°	4894.3	1180.4	974.4	795.0	693.2	655.5	666.6	686.5	677.7	677.7
40°	4480.1	1187.0	970.0	770.7	653.3	631.2	653.3	637.8	615.7	613.4
42.5°	4163.4	1242.4	961.1	750.7	628.9	613.4	604.6	580.2	578.0	582.4
45°	3933.1	1291.1	958.9	741.9	602.4	573.6	562.5	538.1	582.4	593.5
47.5°	3660.7	1291.1	958.9	710.9	558.1	547.0	529.3	502.7	547.0	558.1
50°	3308.6	1209.2	921.3	675.5	522.6	516.0	485.0	451.8	442.9	449.6
52.5°	2863.5	1060.8	826.0	626.7	487.2	473.9	436.3	411.9	405.3	405.3
55°	2356.3	888.1	697.6	555.9	449.6	425.2	398.6	387.6	380.9	376.5
57.5°	1915.6	728.6	560.3	493.9	414.1	383.1	374.3	361.0	349.9	343.3
60°	1572.4	573.6	462.8	438.5	378.7	349.9	347.7	330.0	301.2	296.8
62.5°	1213.6	420.8	389.8	380.9	343.3	318.9	314.5	279.0	234.7	225.9
65°	857.0	327.8	314.5	334.4	305.6	283.5	272.4	219.2	172.7	166.1
67.5°	602.4	274.6	248.0	292.3	265.8	237.0	230.3	186.0	143.9	139.5
70°	429.6	223.7	203.7	250.2	212.6	208.2	194.9	155.0	117.4	112.9
72.5°	303.4	170.5	157.2	217.0	146.2	179.4	159.5	119.6	88.6	84.2
75°	223.7	121.8	110.7	126.2	106.3	135.1	112.9	79.7	55.4	53.2
77.5°	163.9	77.5	66.4	62.0	62.0	84.2	62.0	33.2	24.4	22.1
80°	115.2	35.4	31.0	26.6	24.4	19.9	8.9	4.4	2.2	2.2
82.5°	68.7	15.5	15.5	11.1	6.6	0.0	0.0	0.0	0.0	0.0
85°	15.5	6.6	6.6	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)