

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: P940086

Luminaire Tested: **GALN-SB3A-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9791 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
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



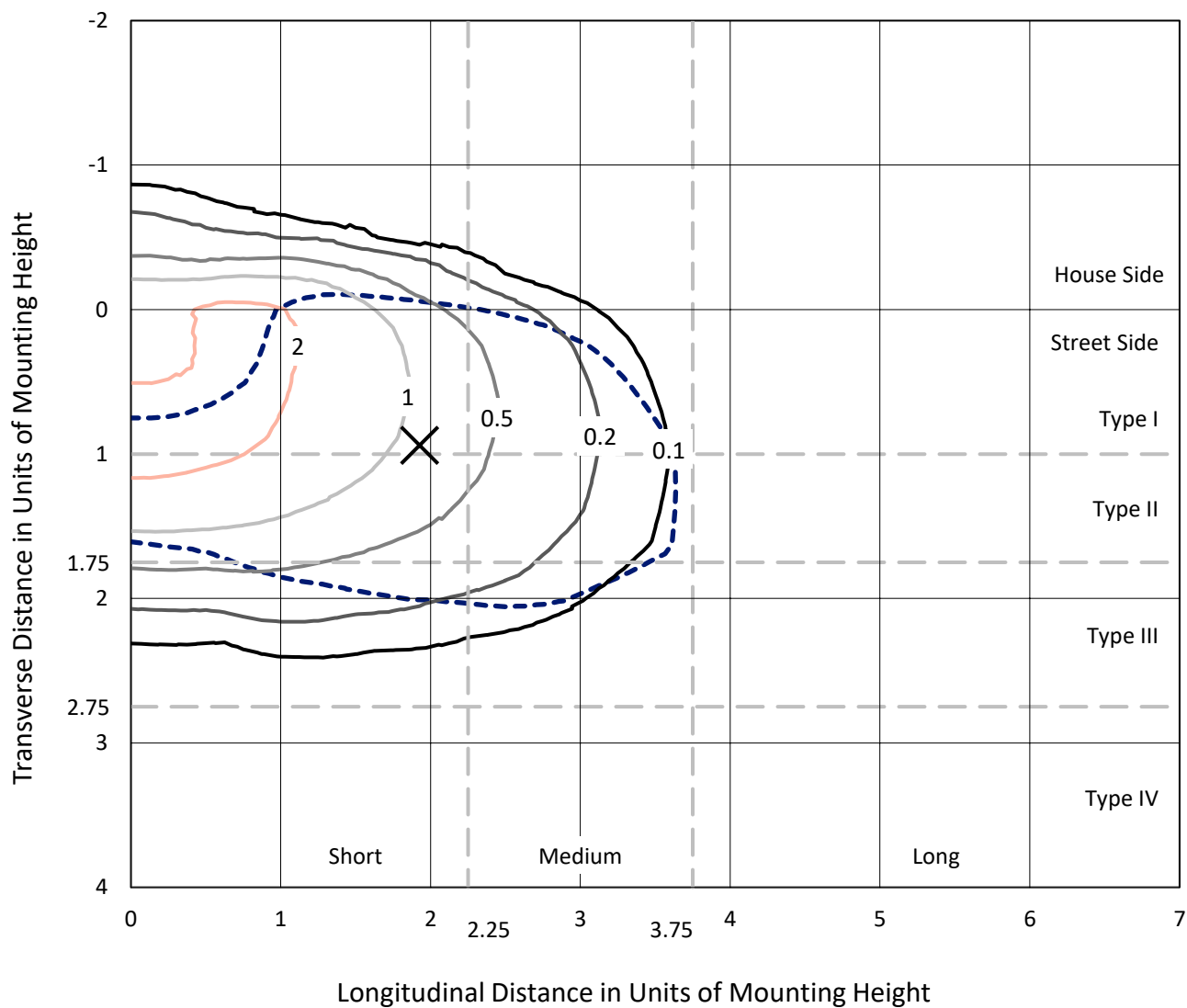
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

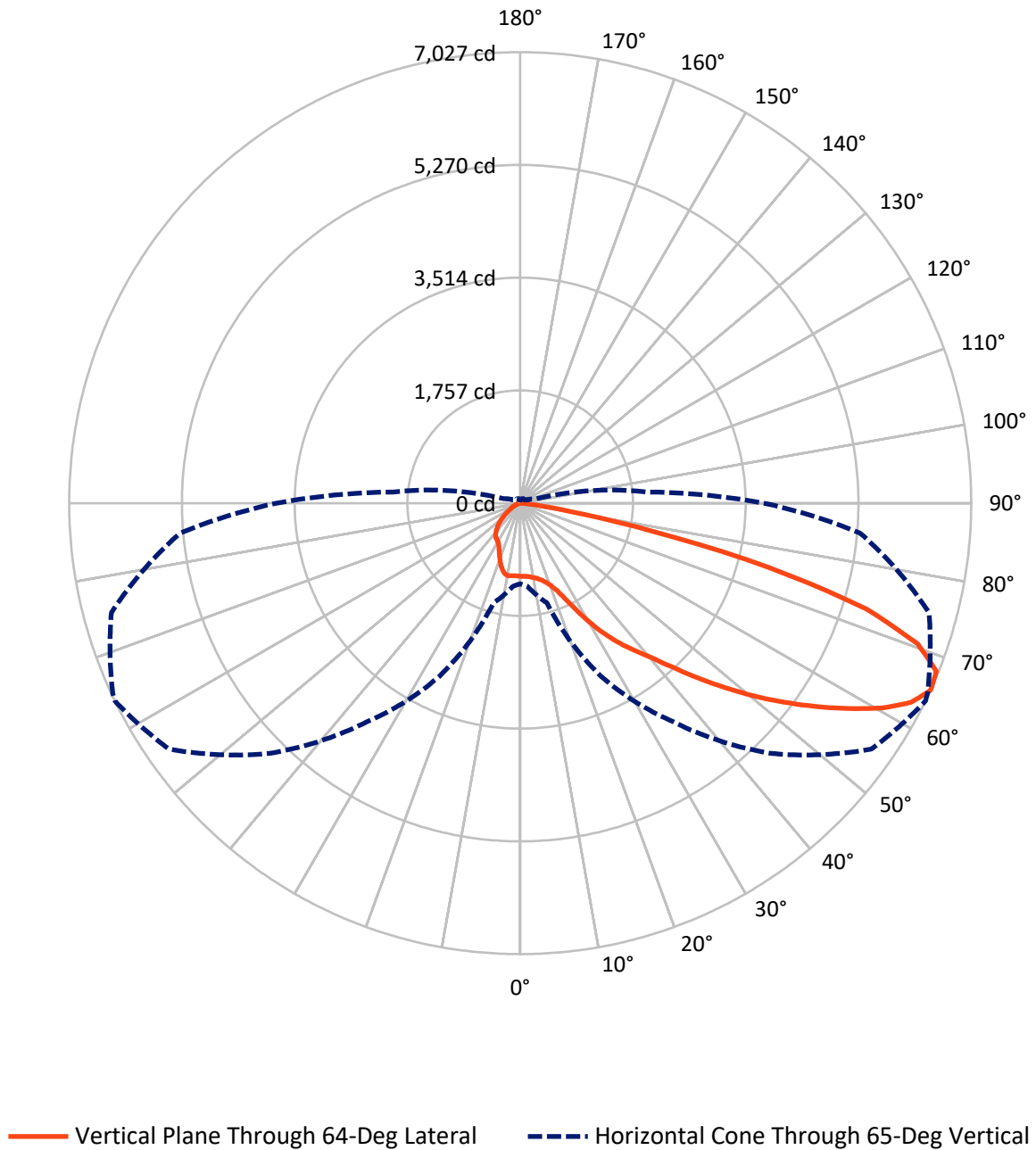


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1309.4	0.0	1309.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8481.6	0.0	8481.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	9791.0	0.0	9791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	1.1
10°-20°	285.0	2.9
20°-30°	540.0	5.5
30°-40°	1092.7	11.2
40°-50°	1861.4	19.0
50°-60°	2531.4	25.9
60°-70°	2377.1	24.3
70°-80°	952.4	9.7
80°-90°	46.1	0.5
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°	9791.0	100.0
0°-180°	9791.0	100.0

Coefficient of Utilization



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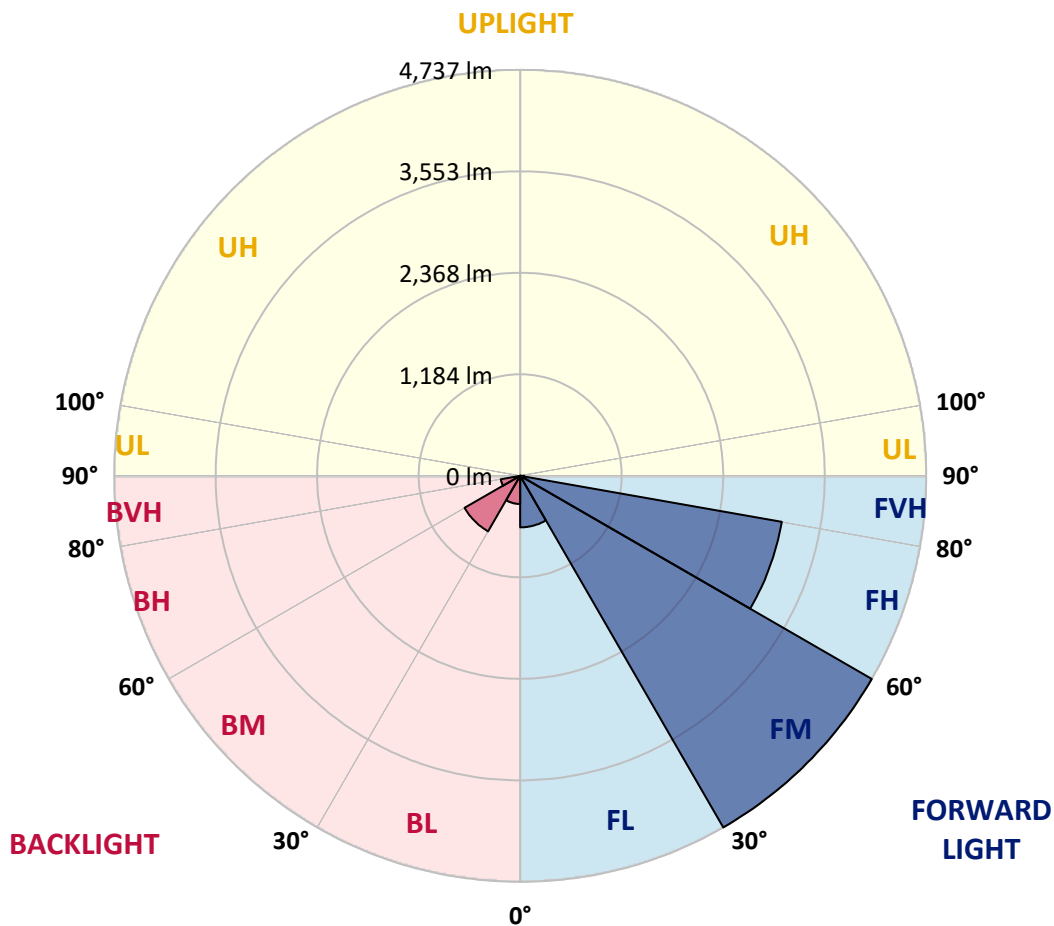
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.3	6.1			
FM	(30°-60°)	4736.9	48.4			
FH	(60°-80°)	3099.6	31.7			G2/5000
FVH	(80°-90°)	43.9	0.4			G1/100
BL	(0°-30°)	328.7	3.4	B1/500		
BM	(30°-60°)	748.6	7.6	B1/1000		
BH	(60°-80°)	229.8	2.3	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8
2.5°	1134.9	1142.7	1140.8	1138.8	1138.1	1139.5	1140.1	1139.5	1139.5	1139.5	1140.1
5°	1113.2	1119.8	1119.8	1124.4	1130.9	1138.8	1144.7	1146.0	1147.3	1149.3	1148.6
7.5°	1071.8	1077.1	1081.0	1096.1	1112.5	1133.5	1151.3	1160.5	1161.8	1169.0	1171.6
10°	1043.6	1050.2	1056.7	1072.5	1096.1	1127.6	1157.8	1180.1	1183.4	1200.5	1208.4
12.5°	1042.3	1048.9	1057.4	1074.5	1102.0	1135.5	1172.3	1204.4	1210.3	1235.3	1251.7
15°	1056.1	1064.0	1071.8	1092.8	1122.4	1163.1	1202.5	1242.5	1248.4	1283.9	1301.6
17.5°	1084.3	1094.8	1100.7	1121.7	1153.2	1198.5	1250.4	1296.3	1301.6	1342.9	1365.2
20°	1140.1	1152.6	1154.5	1171.6	1202.5	1251.0	1312.7	1369.8	1376.4	1423.7	1448.6
22.5°	1255.6	1273.3	1257.6	1266.1	1293.7	1342.3	1409.2	1481.4	1490.6	1544.4	1566.7
25°	1459.1	1484.0	1443.3	1428.9	1440.7	1491.3	1575.3	1666.5	1677.0	1720.3	1731.5
27.5°	1858.8	1826.7	1765.0	1704.6	1669.1	1698.0	1792.5	1905.4	1918.6	1960.6	1947.4
30°	2297.9	2269.7	2186.4	2052.5	1968.4	1963.8	2051.1	2177.2	2192.3	2232.3	2192.3
32.5°	2737.7	2710.8	2620.2	2455.5	2309.8	2237.6	2297.9	2437.7	2445.6	2471.2	2412.1
35°	3170.2	3142.7	3052.1	2883.4	2704.2	2540.1	2528.3	2685.8	2688.5	2715.4	2627.4
37.5°	3605.4	3582.4	3486.0	3320.6	3144.0	2917.5	2807.9	2920.8	2924.1	2950.4	2859.1
40°	3915.9	3925.7	3859.4	3731.4	3579.8	3332.4	3121.7	3170.9	3151.2	3195.2	3140.7
42.5°	4182.4	4202.1	4144.3	4080.0	3992.0	3774.1	3510.2	3501.7	3470.2	3493.8	3437.4
45°	4412.7	4429.2	4377.3	4362.2	4360.2	4207.3	3934.9	3883.7	3839.7	3835.1	3767.5
47.5°	4497.4	4528.9	4551.2	4601.8	4700.2	4635.9	4374.0	4294.6	4245.4	4209.3	4102.3
50°	4529.6	4563.1	4639.2	4786.2	5019.2	5046.8	4811.2	4721.9	4661.5	4595.9	4438.3
52.5°	4486.3	4546.0	4648.4	4895.8	5233.9	5376.3	5230.6	5152.5	5083.6	4976.6	4742.9
55°	4230.9	4290.7	4500.0	4894.5	5340.8	5607.3	5627.0	5592.2	5514.8	5346.1	4989.0
57.5°	3692.7	3781.3	4112.8	4727.8	5338.9	5806.2	6015.6	6040.5	5953.9	5712.4	5182.7
60°	2947.1	3067.2	3471.5	4358.3	5174.1	5913.9	6356.2	6481.0	6389.1	6073.4	5339.5
62.5°	2056.4	2195.5	2578.2	3779.4	4797.4	5836.4	6605.0	6835.4	6765.8	6396.3	5399.9
65°	1254.3	1298.9	1607.4	2974.0	4156.8	5512.2	6681.8	7027.1	7004.1	6593.9	5310.7
67.5°	835.6	873.0	961.6	2039.3	3226.7	4864.3	6498.0	6993.6	7000.1	6561.7	4983.8
70°	503.4	535.6	593.4	1186.1	2091.2	3850.2	5929.0	6566.9	6605.0	6131.8	4364.2
72.5°	207.4	229.1	281.6	537.6	1083.0	2443.7	4721.2	5638.2	5726.8	5155.8	3349.4
75°	117.5	128.6	165.4	269.8	470.0	1138.8	2859.8	4002.5	4133.1	3553.6	2015.0
77.5°	78.1	83.4	107.0	174.6	264.5	388.6	1222.2	2085.3	2334.7	1940.9	872.3
80°	52.5	57.1	73.5	116.8	172.0	166.7	389.2	772.5	950.4	666.9	212.7
82.5°	35.4	36.1	52.5	76.8	109.0	80.7	114.9	240.2	301.9	193.0	80.7
85°	20.3	19.7	38.7	44.6	48.6	33.5	34.8	72.2	94.5	81.4	45.9
87.5°	2.6	3.9	15.1	11.8	6.6	7.2	7.2	12.5	18.4	19.7	9.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8	1138.8
2.5°	1140.1	1139.5	1137.5	1135.5	1130.9	1128.3	1129.6	1128.3	1127.6	1128.3	1130.9
5°	1148.6	1146.7	1141.4	1134.9	1125.7	1114.5	1107.3	1096.8	1086.9	1081.0	1082.3
7.5°	1171.6	1169.6	1162.4	1144.0	1114.5	1067.9	1025.2	987.8	959.6	943.2	943.9
10°	1208.4	1205.1	1193.9	1153.2	1075.8	974.0	889.4	819.1	773.2	751.5	749.6
12.5°	1251.7	1247.8	1228.1	1144.7	1002.3	843.4	726.6	648.5	605.8	586.8	584.8
15°	1302.9	1297.6	1258.9	1104.0	895.3	699.0	592.0	533.6	506.1	489.0	489.6
17.5°	1366.6	1357.4	1281.9	1043.0	779.1	588.8	509.3	465.4	441.1	424.7	423.4
20°	1449.3	1434.2	1300.3	970.1	672.1	519.2	453.5	416.8	398.4	384.0	381.3
22.5°	1564.8	1543.1	1322.6	891.3	596.6	471.3	412.2	385.3	370.2	353.8	351.2
25°	1707.9	1682.3	1350.1	818.5	544.8	429.9	382.0	359.7	342.0	322.9	321.0
27.5°	1908.1	1862.1	1383.0	758.8	500.2	394.5	354.4	329.5	309.1	293.4	290.1
30°	2131.2	2055.7	1411.8	722.7	459.5	361.7	318.3	293.4	274.4	263.2	261.2
32.5°	2342.6	2240.2	1430.9	706.9	422.7	324.2	279.0	252.0	237.6	234.3	236.3
35°	2542.1	2406.9	1428.9	691.8	389.9	286.8	240.2	212.7	201.5	203.5	203.5
37.5°	2771.8	2584.8	1415.1	668.2	363.0	252.7	206.8	182.5	172.6	173.3	175.9
40°	3039.0	2790.2	1406.6	623.5	333.4	221.2	179.2	159.5	152.3	149.7	149.0
42.5°	3323.8	2989.1	1407.9	573.0	296.7	193.0	160.2	143.7	137.2	135.2	134.6
45°	3610.0	3178.8	1409.9	520.5	258.0	171.3	146.4	132.6	128.6	126.0	126.0
47.5°	3879.1	3340.2	1373.1	464.1	219.9	154.9	135.2	126.0	122.7	119.5	119.5
50°	4129.9	3447.9	1284.5	398.4	189.7	141.8	126.7	120.1	116.8	113.6	113.6
52.5°	4324.8	3465.0	1138.1	330.8	168.7	131.9	121.4	115.5	111.6	108.3	107.6
55°	4411.4	3358.0	930.1	267.8	152.3	123.4	116.2	110.3	105.7	102.4	101.7
57.5°	4389.1	3132.8	725.3	215.3	136.5	114.9	109.6	105.7	100.4	95.2	94.5
60°	4279.5	2831.6	546.8	179.2	122.1	105.7	102.4	99.1	91.9	84.0	82.7
62.5°	4089.8	2452.8	389.9	148.3	106.3	95.2	93.9	91.2	80.7	66.3	65.0
65°	3799.7	1992.7	262.5	123.4	91.2	83.4	84.0	79.4	65.6	49.2	47.9
67.5°	3375.7	1457.1	168.0	101.1	76.1	69.6	70.2	67.6	55.8	42.0	40.0
70°	2835.5	964.9	109.6	76.8	61.0	53.8	57.8	58.4	47.3	34.1	32.8
72.5°	2078.7	569.7	76.8	57.1	44.6	37.4	47.3	48.6	38.1	25.6	24.3
75°	1184.7	270.4	57.8	41.4	27.6	26.3	36.8	36.8	26.3	17.1	15.8
77.5°	497.5	112.9	40.7	26.9	15.8	15.1	24.9	23.0	13.1	7.9	7.9
80°	143.7	50.5	21.7	13.1	6.6	5.9	9.8	7.2	3.3	1.3	1.3
82.5°	56.4	22.3	8.5	5.3	2.6	2.6	1.3	0.0	0.0	0.0	0.0
85°	33.5	9.2	3.9	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	2.0	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	0.0

(END OF REPORT)