

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: P944859

Luminaire Tested: **GALN-SB1A-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4068 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 30.9
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

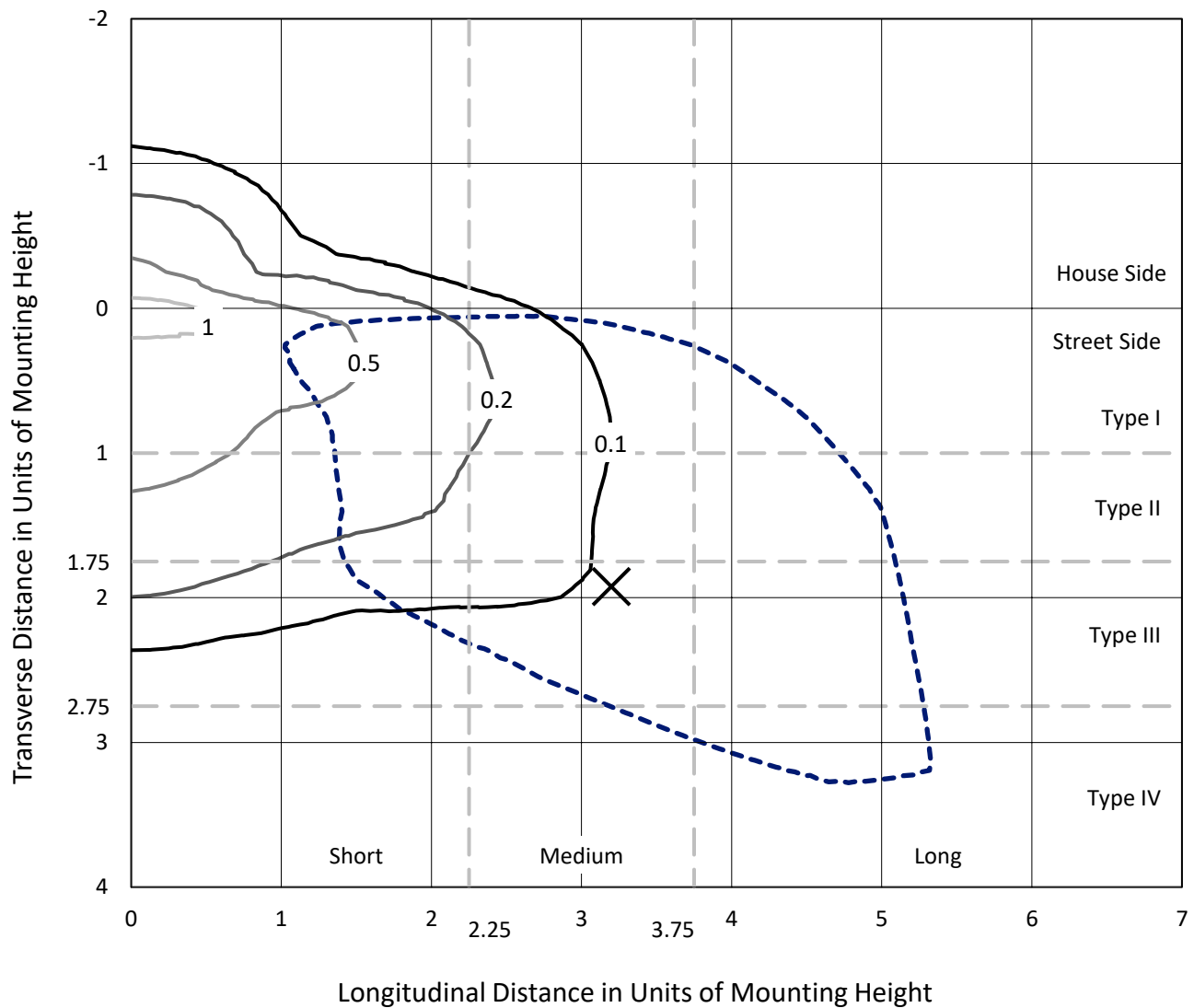


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

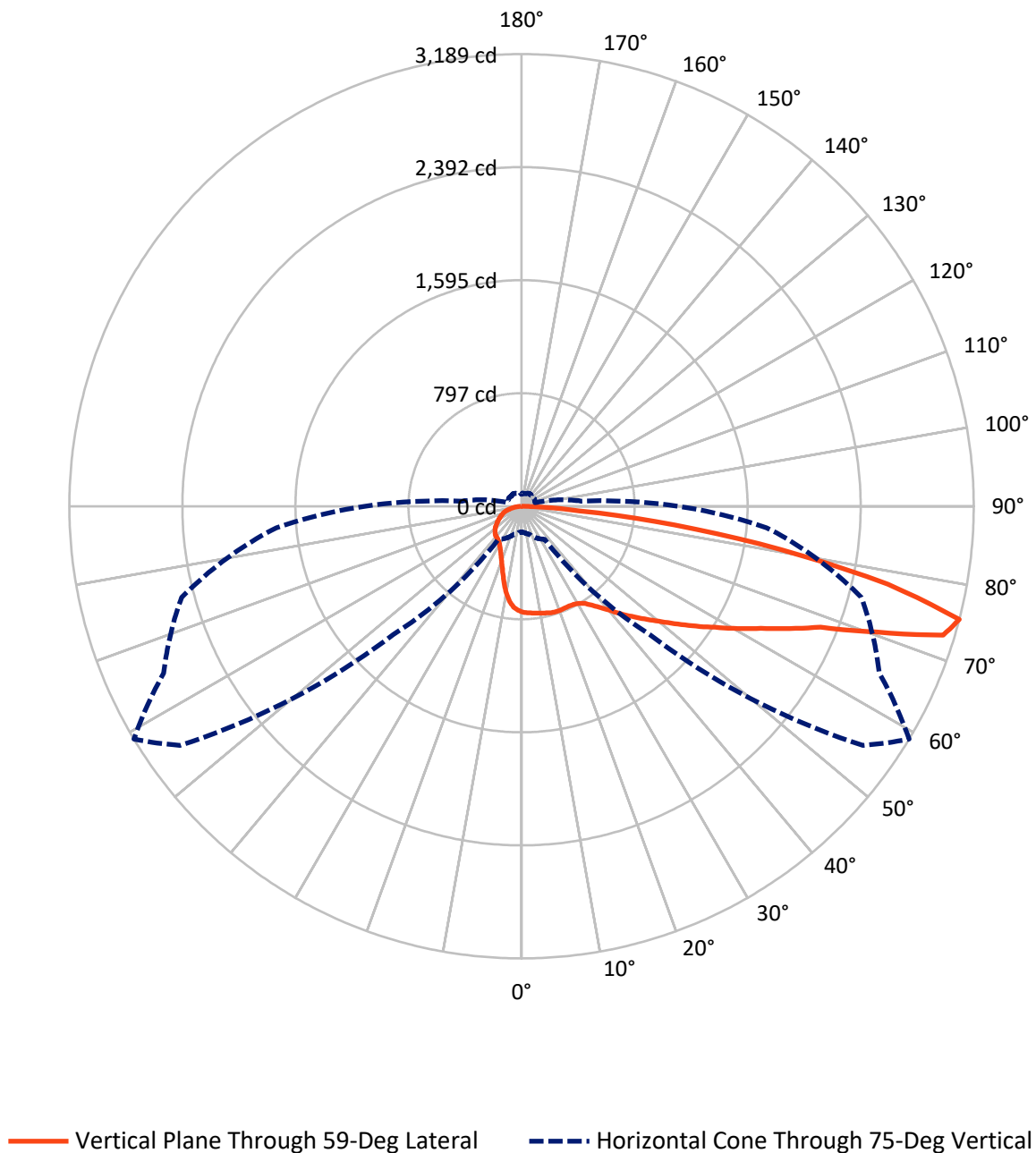


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	763.0	0.0	763.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3305.0	0.0	3305.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	4068.0	0.0	4068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	1.6
10°-20°	171.1	4.2
20°-30°	259.9	6.4
30°-40°	386.4	9.5
40°-50°	574.6	14.1
50°-60°	780.0	19.2
60°-70°	952.2	23.4
70°-80°	747.3	18.4
80°-90°	129.4	3.2
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°	4068.0	100.0
0°-180°	4068.0	100.0

Coefficient of Utilization



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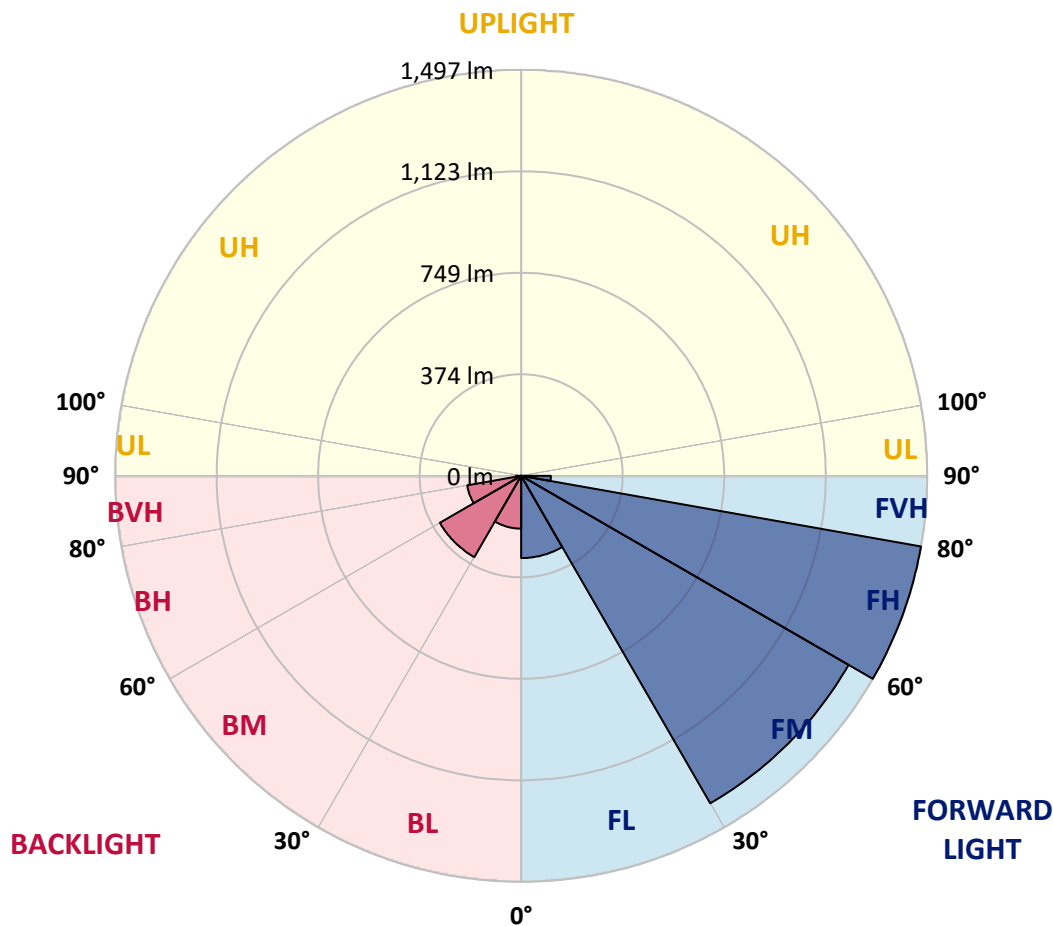
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.3	7.5			
FM	(30°-60°)	1394.7	34.3			
FH	(60°-80°)	1497.4	36.8			G1/1800
FVH	(80°-90°)	109.6	2.7			G2/225
BL	(0°-30°)	194.7	4.8	B1/500		
BM	(30°-60°)	346.3	8.5	B1/1000		
BH	(60°-80°)	202.1	5.0	B1/500		G1/500
BVH	(80°-90°)	19.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7
2.5°	753.0	750.4	753.0	751.9	751.5	750.6	750.8	752.4	751.5	752.6	748.9
5°	748.0	746.5	749.1	748.4	751.3	751.7	754.6	756.3	757.4	757.6	754.8
7.5°	739.7	738.1	741.9	744.9	751.0	752.8	758.7	761.6	763.1	765.7	761.6
10°	709.3	708.6	717.8	729.4	743.8	752.8	761.8	766.6	769.0	776.0	771.2
12.5°	655.4	656.3	668.3	690.7	719.5	748.4	765.3	772.3	776.0	784.7	782.6
15°	604.0	603.8	616.9	640.8	681.2	729.2	767.0	779.1	785.4	798.3	796.6
17.5°	574.2	573.4	582.5	600.7	638.3	699.6	762.6	782.8	796.3	812.5	811.0
20°	568.8	567.0	571.8	580.8	607.5	667.2	751.3	782.8	805.1	826.1	825.2
22.5°	588.7	585.8	583.9	582.8	594.6	640.5	738.4	780.2	818.0	845.6	844.1
25°	628.7	624.3	614.3	604.4	600.9	628.5	727.0	779.5	837.3	871.8	866.2
27.5°	693.5	688.0	667.7	644.0	622.8	634.6	721.9	783.4	858.5	899.6	888.3
30°	773.8	767.9	742.3	706.0	667.9	657.4	728.3	795.0	885.6	936.6	914.3
32.5°	845.8	839.2	817.4	780.4	728.9	696.8	748.4	817.1	928.3	988.0	953.5
35°	909.7	902.0	882.4	848.2	803.8	752.1	784.7	856.3	988.9	1071.6	1006.7
37.5°	972.3	963.3	941.9	905.8	874.7	825.9	834.9	906.6	1069.5	1173.2	1077.1
40°	1042.3	1029.4	1003.4	967.7	937.5	912.3	900.7	968.4	1151.3	1286.5	1165.1
42.5°	1110.2	1097.9	1066.8	1036.4	998.6	991.3	977.1	1040.6	1240.8	1411.1	1254.4
45°	1183.3	1168.6	1131.0	1092.4	1068.6	1043.9	1051.1	1112.8	1328.6	1538.0	1348.0
47.5°	1251.7	1235.3	1190.9	1148.0	1134.9	1088.1	1118.9	1192.2	1419.8	1666.7	1440.8
50°	1288.7	1272.5	1235.6	1196.8	1186.5	1142.5	1192.4	1279.5	1515.4	1794.9	1529.9
52.5°	1319.6	1302.1	1253.7	1232.3	1229.2	1201.9	1283.0	1379.3	1611.1	1908.3	1615.9
55°	1352.4	1332.9	1271.2	1252.0	1266.0	1268.4	1390.5	1492.5	1712.2	2018.8	1697.1
57.5°	1390.3	1365.5	1288.1	1268.6	1301.9	1346.3	1513.9	1609.8	1811.5	2121.2	1769.3
60°	1425.9	1401.0	1320.5	1295.1	1340.6	1436.7	1655.5	1751.8	1924.0	2212.4	1837.6
62.5°	1432.9	1412.4	1346.3	1346.1	1393.1	1542.1	1823.1	1895.1	2022.3	2302.6	1898.8
65°	1311.7	1298.8	1259.6	1344.1	1468.4	1694.0	2009.8	2078.5	2147.2	2381.4	1952.7
67.5°	998.3	1000.1	997.2	1160.3	1407.6	1912.2	2280.1	2274.8	2301.5	2469.8	2014.6
70°	456.5	466.8	533.7	800.9	1127.7	1937.4	2726.9	2658.9	2495.2	2584.2	2068.2
72.5°	246.6	254.5	281.9	388.0	678.0	1722.5	3060.9	3109.2	2752.8	2661.3	2009.4
75°	181.0	185.4	204.4	246.6	284.7	1280.2	2941.2	3189.3	2784.9	2481.6	1735.2
77.5°	135.5	137.4	153.0	195.4	145.7	674.9	2350.1	2641.4	2384.0	2038.9	1281.7
80°	98.3	100.4	112.0	146.6	102.2	246.8	1613.7	1854.0	1632.7	1299.7	638.8
82.5°	67.8	68.7	73.7	99.8	71.3	95.9	915.6	1087.2	911.5	456.1	172.4
85°	40.9	42.0	44.2	58.2	40.5	45.5	395.2	408.8	272.5	109.0	53.6
87.5°	16.9	17.9	19.7	24.5	16.0	12.7	65.2	81.8	51.0	32.0	16.6
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°	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7	746.7
2.5°	747.8	746.2	742.1	736.4	731.1	724.6	721.7	719.3	717.1	713.0	711.0
5°	752.4	748.2	737.0	722.6	706.2	688.2	670.7	658.7	648.4	640.8	634.4
7.5°	759.4	751.5	731.1	701.6	664.0	625.4	590.6	565.9	547.3	540.5	528.7
10°	766.6	757.2	721.7	669.6	604.6	545.3	499.2	473.8	458.9	454.1	446.6
12.5°	775.1	761.3	707.1	625.2	538.3	473.3	433.1	418.2	410.5	407.9	408.6
15°	787.6	764.8	685.0	569.6	475.1	420.8	394.8	384.5	380.6	380.3	381.2
17.5°	797.0	765.5	650.6	510.1	426.5	389.1	367.6	363.7	366.3	370.3	371.8
20°	807.5	759.6	605.5	455.8	392.4	361.3	352.3	355.0	361.3	367.0	369.0
22.5°	814.9	748.9	551.0	413.6	362.8	345.3	344.9	350.4	353.9	356.7	358.2
25°	821.5	730.7	493.3	378.2	338.5	335.7	340.5	338.8	336.4	338.8	340.3
27.5°	826.3	702.0	441.6	347.1	321.5	329.1	326.3	322.3	322.1	323.4	325.6
30°	824.8	663.7	399.2	317.5	309.4	316.9	310.1	309.4	308.8	309.4	311.8
32.5°	824.8	620.2	366.6	297.2	301.8	298.9	298.3	296.7	294.1	293.9	296.7
35°	829.4	576.6	338.5	286.2	295.4	288.6	289.1	285.4	279.9	277.3	279.9
37.5°	838.8	541.6	310.7	281.0	284.3	284.1	282.3	276.0	266.3	258.0	260.9
40°	861.6	531.3	291.7	278.6	279.0	281.6	277.0	264.8	242.9	229.3	231.1
42.5°	897.2	548.6	287.6	272.7	275.5	278.1	269.2	240.7	225.2	217.1	217.1
45°	942.5	578.8	296.5	264.1	267.2	271.8	245.1	231.5	224.5	224.7	225.8
47.5°	999.9	610.6	313.2	256.7	255.2	257.8	229.1	220.8	211.2	213.6	219.7
50°	1066.2	642.7	328.9	246.6	241.8	233.3	218.8	211.0	198.7	193.0	194.5
52.5°	1138.0	673.8	335.3	234.4	227.4	217.5	211.8	202.2	187.3	177.9	177.7
55°	1206.0	702.0	328.3	219.7	212.9	205.3	204.4	198.5	182.5	169.4	169.4
57.5°	1270.3	725.7	310.7	204.8	198.3	193.7	199.6	196.7	176.6	159.8	158.9
60°	1324.8	741.9	285.4	189.7	185.1	182.7	191.7	190.8	168.3	149.5	148.8
62.5°	1368.2	748.2	257.4	175.3	174.2	169.8	180.8	180.8	157.8	139.4	138.7
65°	1402.1	742.1	228.9	161.1	163.3	156.7	167.4	166.1	146.6	130.4	129.6
67.5°	1432.1	721.9	197.4	147.1	152.1	143.8	153.4	150.3	134.4	121.5	120.6
70°	1445.4	675.1	161.5	133.1	139.2	131.1	139.4	133.7	120.6	111.8	110.1
72.5°	1338.2	561.1	127.1	118.4	123.6	117.1	124.3	117.7	105.7	101.8	98.5
75°	1107.1	421.0	97.8	102.4	106.4	101.3	106.1	101.3	90.4	93.2	85.1
77.5°	804.0	284.3	74.8	85.6	87.3	84.7	88.8	83.4	73.5	72.9	69.6
80°	399.8	166.5	58.6	67.6	67.0	65.2	70.0	67.4	59.1	62.6	61.9
82.5°	115.8	71.3	42.7	47.5	46.2	46.6	50.1	51.4	77.0	76.4	78.1
85°	36.3	28.0	25.6	26.5	25.2	25.8	29.5	58.6	54.3	31.7	34.4
87.5°	9.4	9.6	6.3	6.8	7.0	8.3	9.4	35.7	17.1	11.2	11.8
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)