

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: P938899

Luminaire Tested: **GALN-SB1B-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5164 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 39.8
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

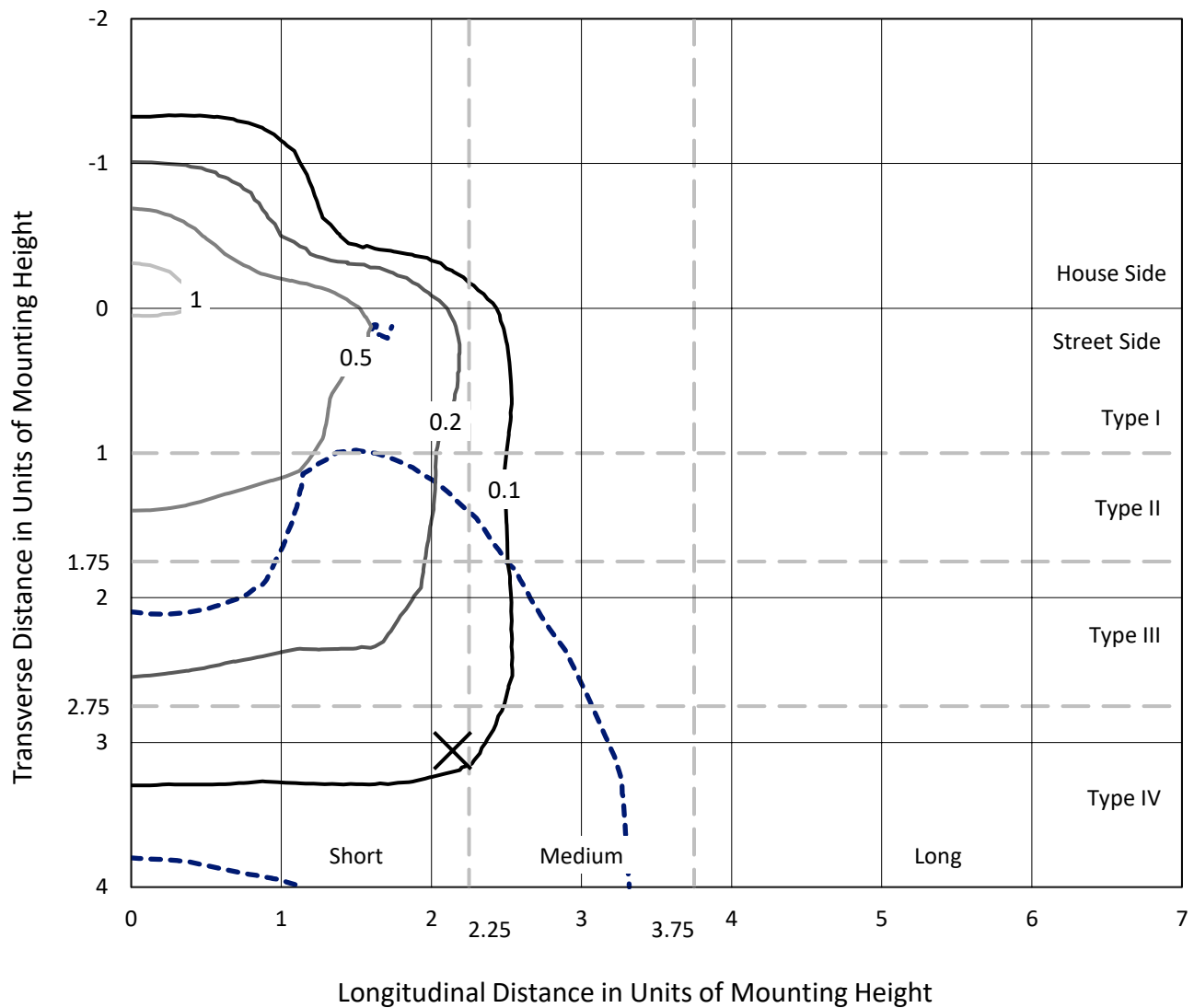


REPORT NUMBER: P938899

CATALOG NUMBER: GALN-SB1B-727-U-T4FT

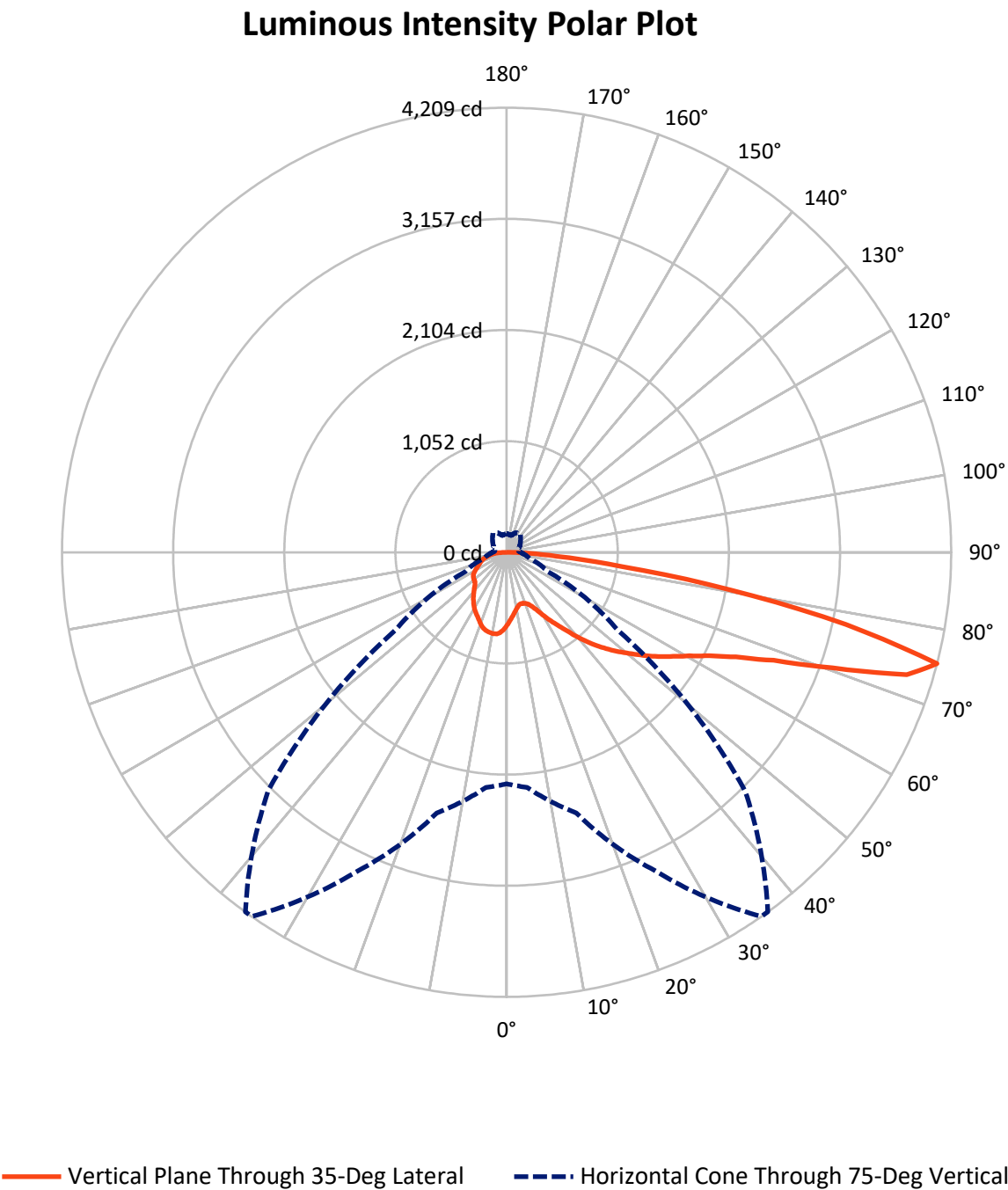
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P938899
CATALOG NUMBER: GALN-SB1B-727-U-T4FT



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.9	0.0	1228.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3935.1	0.0	3935.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	5164.0	0.0	5164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	1.3
10°-20°	187.9	3.6
20°-30°	315.6	6.1
30°-40°	490.5	9.5
40°-50°	728.0	14.1
50°-60°	1005.0	19.5
60°-70°	1219.3	23.6
70°-80°	1007.7	19.5
80°-90°	144.9	2.8
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°	5164.0	100.0
0°-180°	5164.0	100.0

Coefficient of Utilization



REPORT NUMBER: P938899

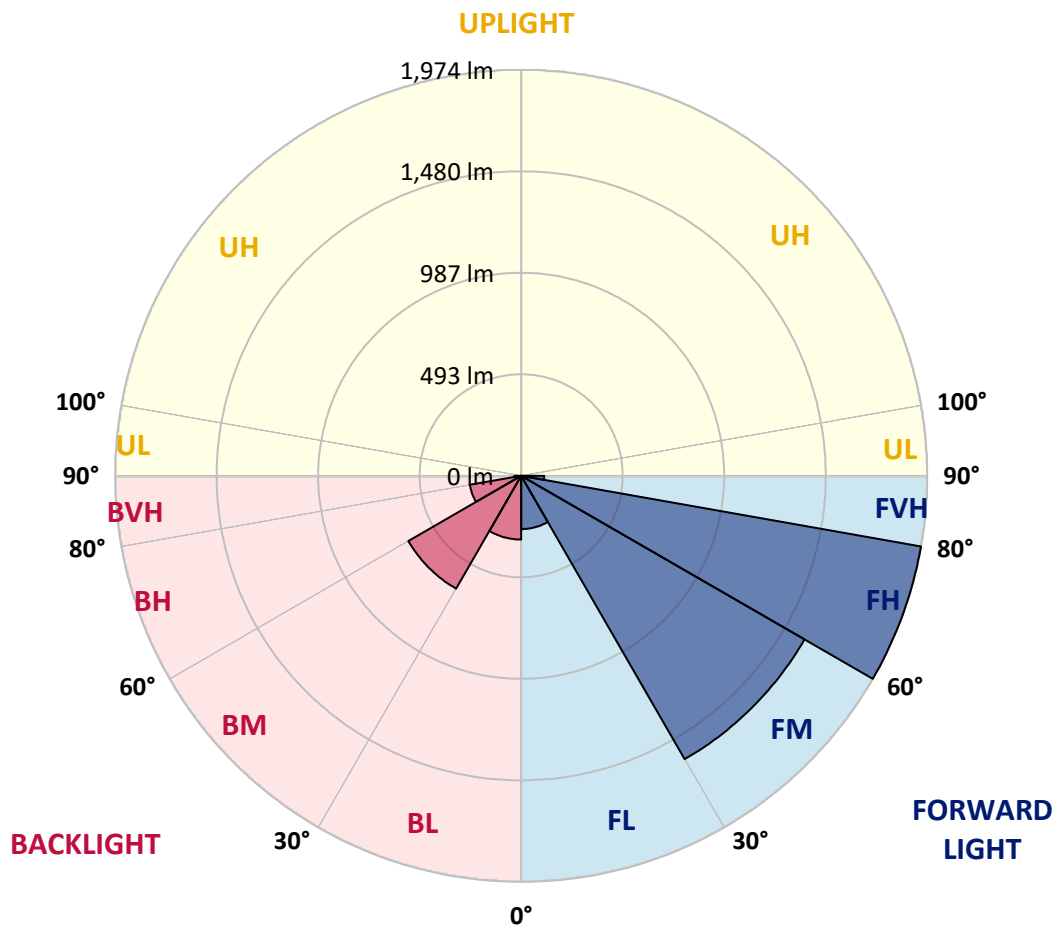
CATALOG NUMBER: GALN-SB1B-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.0	5.0			
FM	(30°-60°)	1590.2	30.8			
FH	(60°-80°)	1973.6	38.2			G2/5000
FVH	(80°-90°)	112.3	2.2			G2/225
BL	(0°-30°)	309.7	6.0	B1/500		
BM	(30°-60°)	633.2	12.3	B1/1000		
BH	(60°-80°)	253.4	4.9	B1/500		G1/500
BVH	(80°-90°)	32.6	0.6			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 Short



REPORT NUMBER: P938899

CATALOG NUMBER: GALN-SB1B-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	634.5	638.4	640.1	639.3	643.5	642.9	648.8	656.0	666.1	675.9	690.1
5°	585.7	589.9	593.5	596.9	604.9	607.5	616.7	630.6	649.1	667.8	691.2
7.5°	540.2	543.8	549.4	555.5	569.2	571.7	587.1	608.9	634.5	661.9	694.3
10°	503.1	506.7	512.5	519.5	536.6	539.6	559.2	588.2	621.7	656.3	697.6
12.5°	487.1	488.3	491.6	498.6	513.4	515.3	536.8	570.1	609.1	652.1	702.7
15°	486.3	488.5	488.8	492.4	504.7	505.6	525.4	558.3	601.3	651.3	710.2
17.5°	494.7	496.4	493.8	496.1	506.4	507.8	523.4	552.7	598.8	654.9	723.0
20°	517.0	518.4	510.9	507.8	515.3	516.5	531.8	556.4	601.3	662.5	740.6
22.5°	564.5	565.3	546.9	534.3	534.9	535.4	548.8	571.2	611.1	676.1	763.0
25°	638.4	637.9	608.6	584.3	570.3	567.3	576.2	595.2	627.6	694.3	791.7
27.5°	725.0	720.8	691.5	655.2	624.8	620.3	618.3	626.4	651.0	718.3	826.9
30°	822.7	818.8	787.2	739.8	697.6	690.4	671.9	667.8	685.9	750.9	875.7
32.5°	929.9	927.4	889.7	832.2	775.8	767.4	736.4	725.3	739.5	800.4	943.9
35°	1019.8	1017.6	986.3	927.1	858.1	847.8	816.3	803.7	811.0	863.7	1032.9
37.5°	1101.0	1099.9	1073.1	1026.5	955.3	942.7	907.3	903.1	901.7	947.2	1140.9
40°	1176.4	1173.6	1145.7	1121.1	1068.4	1056.9	1025.6	1022.0	1011.4	1049.9	1263.2
42.5°	1259.9	1252.6	1212.1	1200.7	1186.4	1177.0	1158.2	1158.8	1135.4	1165.8	1392.7
45°	1328.0	1323.8	1282.2	1275.5	1290.9	1286.9	1303.1	1307.3	1261.8	1287.2	1527.3
47.5°	1401.1	1397.2	1362.0	1357.3	1398.9	1400.0	1457.2	1458.6	1385.2	1413.4	1662.1
50°	1491.3	1485.7	1450.8	1456.7	1503.3	1507.5	1612.2	1602.7	1498.8	1541.5	1795.9
52.5°	1550.8	1554.1	1546.6	1556.1	1619.7	1623.6	1764.6	1740.3	1611.3	1668.0	1927.1
55°	1594.6	1601.3	1624.7	1646.5	1742.5	1746.4	1908.4	1871.2	1704.6	1785.3	2050.5
57.5°	1651.0	1641.5	1685.3	1727.7	1859.2	1869.6	2048.2	1997.4	1787.2	1886.3	2135.0
60°	1731.9	1725.2	1759.3	1822.1	1989.9	2006.3	2196.2	2111.0	1847.8	1966.4	2151.5
62.5°	1896.1	1879.3	1884.6	1940.2	2154.6	2176.4	2363.1	2210.1	1877.9	1997.7	2063.3
65°	2141.5	2112.7	2085.9	2124.4	2386.6	2408.1	2551.6	2288.0	1866.8	1937.1	1829.1
67.5°	2450.5	2422.0	2389.1	2425.4	2728.3	2745.3	2784.1	2331.9	1778.8	1703.7	1415.1
70°	2705.4	2694.8	2734.1	2883.5	3274.0	3274.6	3082.2	2295.6	1537.9	1207.9	818.8
72.5°	2671.6	2665.2	2872.6	3334.3	3961.9	3947.1	3364.5	2020.9	1036.0	544.9	306.8
75°	2191.7	2233.3	2554.6	3326.2	4208.9	4207.0	3191.7	1284.7	428.5	225.8	158.6
77.5°	1175.3	1241.2	1658.5	2455.8	3285.8	3335.2	2243.9	449.5	184.0	144.6	109.7
80°	383.3	440.8	661.1	1250.4	2135.0	2125.8	961.7	176.4	125.9	102.5	75.9
82.5°	162.8	169.5	295.4	590.4	1095.7	1078.7	306.2	101.3	88.5	70.1	46.9
85°	63.6	71.2	130.4	273.0	474.6	464.2	110.5	50.2	56.7	45.8	27.9
87.5°	20.9	25.4	46.6	93.5	147.7	142.4	27.1	17.3	24.6	20.9	10.0
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: P938899

CATALOG NUMBER: GALN-SB1B-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	694.0	698.5	703.8	711.6	718.3	723.9	729.7	733.4	734.8	738.9	738.7
5°	699.0	708.8	721.9	734.8	747.3	754.9	761.6	764.9	768.0	770.2	770.8
7.5°	707.4	720.0	740.6	757.4	768.0	774.1	778.6	777.5	778.6	779.1	780.0
10°	714.7	732.2	756.8	772.7	780.8	781.1	780.0	776.1	774.1	774.4	775.0
12.5°	723.3	742.9	769.4	782.8	785.0	778.9	774.1	767.4	764.9	763.8	763.2
15°	735.0	757.4	783.1	788.1	782.5	774.7	766.6	755.7	750.1	745.6	747.0
17.5°	749.3	773.8	793.7	790.0	778.0	765.2	752.1	735.6	724.2	719.4	719.7
20°	769.1	791.1	801.8	785.8	767.7	748.2	725.8	705.7	695.1	690.4	689.8
22.5°	793.1	814.3	809.6	778.6	752.9	721.6	693.7	678.9	673.6	670.3	670.8
25°	821.9	840.0	815.2	768.0	728.6	686.5	665.0	660.2	657.7	655.2	655.2
27.5°	859.3	869.0	819.3	752.3	690.7	649.1	641.2	642.1	641.2	637.1	637.9
30°	908.7	906.7	823.3	726.9	647.1	615.3	615.8	619.5	620.0	617.2	618.6
32.5°	973.7	953.9	825.2	694.0	605.5	585.7	586.2	590.2	592.9	588.2	590.4
35°	1052.4	1008.9	822.1	652.7	573.4	557.5	553.3	554.4	555.3	550.8	553.9
37.5°	1144.3	1070.6	808.5	606.9	546.9	529.9	520.9	513.4	508.9	504.7	507.5
40°	1245.1	1137.9	783.3	562.2	517.3	500.5	487.1	472.9	457.8	452.2	454.8
42.5°	1350.6	1207.1	752.9	519.5	483.2	469.6	455.3	434.7	412.0	400.6	402.0
45°	1460.0	1278.0	723.0	477.4	448.3	442.5	426.0	401.2	376.6	362.1	361.0
47.5°	1567.2	1345.0	679.2	434.9	415.7	422.1	409.3	386.4	359.0	336.1	333.6
50°	1669.7	1407.8	607.5	391.9	389.2	416.0	403.7	370.7	339.5	310.2	307.6
52.5°	1771.3	1458.6	515.6	352.9	374.9	414.3	396.4	360.1	321.9	291.2	287.8
55°	1857.6	1484.9	427.1	319.4	354.3	400.0	387.8	347.6	297.0	264.4	261.6
57.5°	1906.7	1463.7	353.4	286.4	325.8	376.6	373.0	320.8	267.4	242.3	239.0
60°	1885.5	1377.7	293.1	257.7	298.7	351.2	347.3	294.2	244.8	221.1	217.7
62.5°	1768.5	1213.8	245.4	232.5	274.1	325.2	321.6	273.9	227.5	204.6	201.0
65°	1532.9	987.4	208.3	211.6	249.3	294.0	299.3	256.8	213.8	191.5	187.9
67.5°	1169.1	715.2	179.2	193.5	225.0	263.3	278.6	244.5	202.4	181.2	177.8
70°	666.4	406.2	154.7	175.9	203.5	234.8	262.7	234.8	190.1	172.5	170.3
72.5°	252.6	186.5	133.7	158.3	182.9	210.8	245.1	219.4	175.9	162.8	160.5
75°	134.8	113.6	112.5	137.6	159.1	187.3	223.1	204.3	165.3	172.0	177.5
77.5°	91.8	80.4	94.1	117.8	133.2	161.4	199.6	181.5	143.2	142.7	131.5
80°	63.6	56.9	76.5	94.9	103.0	135.7	174.2	155.8	116.7	108.9	104.1
82.5°	38.2	37.1	57.2	70.9	72.9	104.7	144.3	130.6	95.5	83.2	83.7
85°	20.9	22.1	36.6	41.6	42.4	73.1	113.1	101.1	73.4	61.7	62.3
87.5°	5.9	7.5	13.4	16.5	20.4	38.0	67.3	60.0	36.8	25.7	25.7
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)