

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: P522634

Luminaire Tested: **GALN-SA1C-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6632 lumens
Efficiency: N/A
Efficacy: 116.4 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

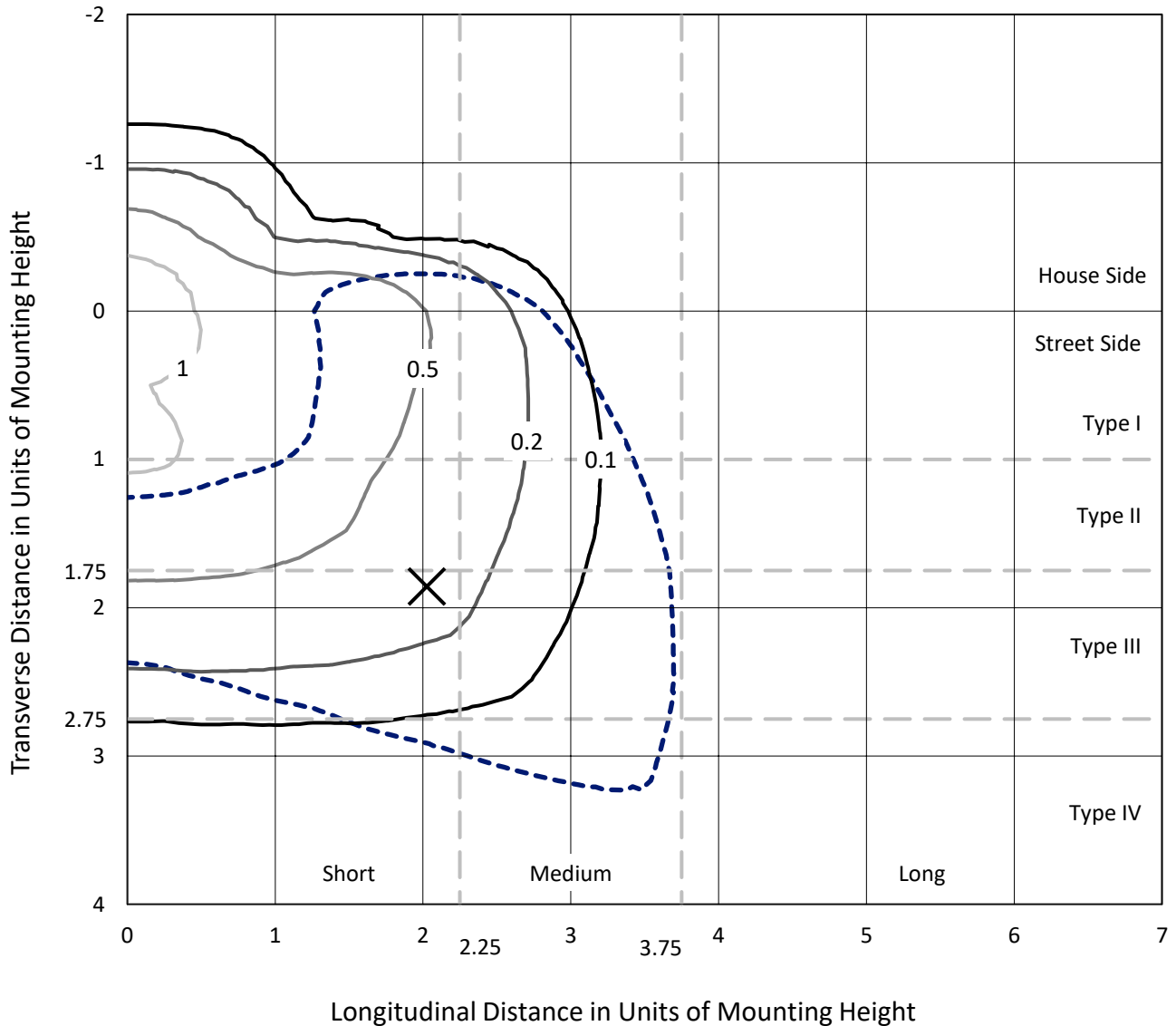
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522634
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Iso-Footcandle Lines of Horizontal Illumination

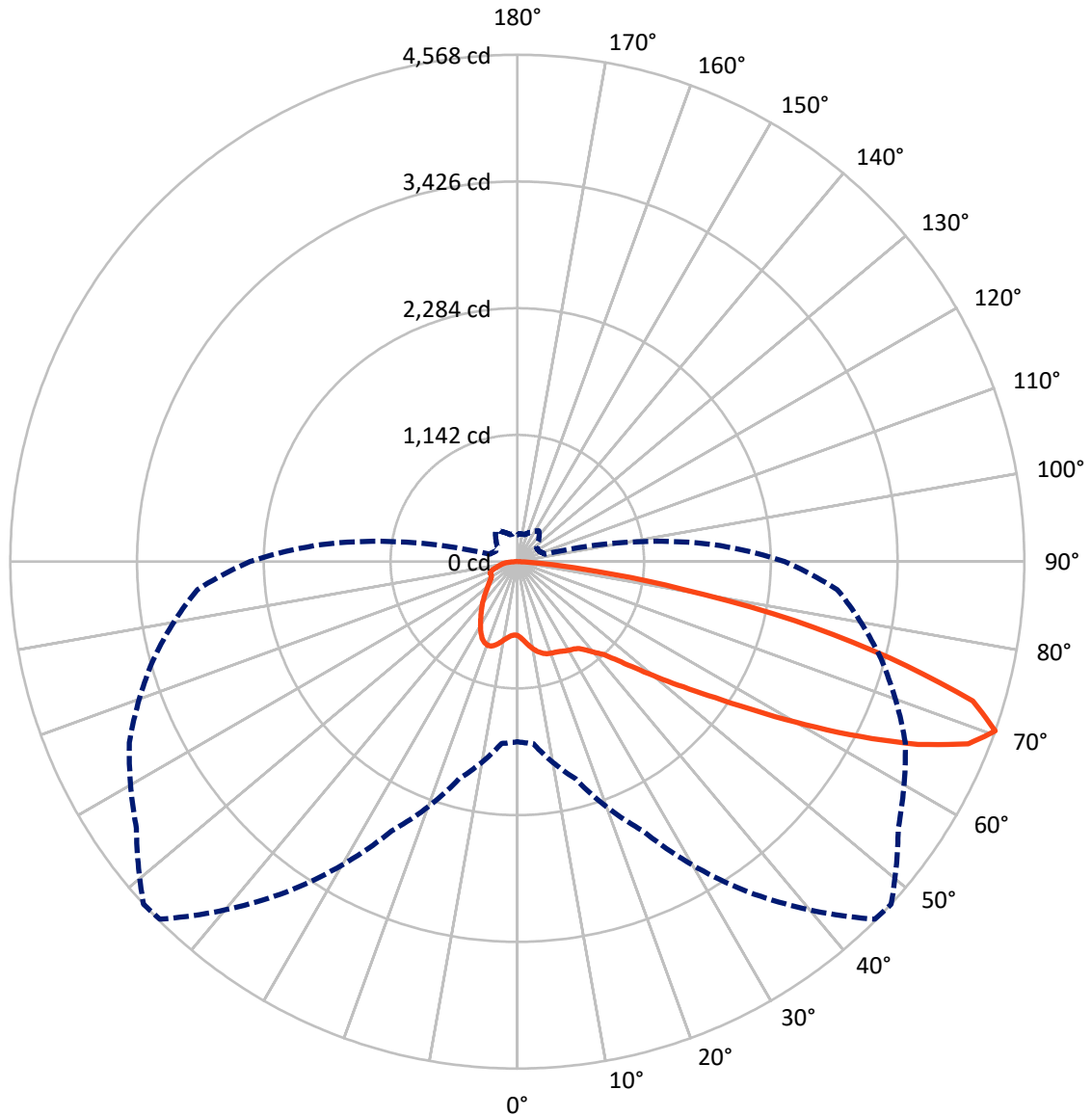
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P522634
CATALOG NUMBER: GALN-SA1C-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GALN-SA1C-735-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1501.6	0.0	1501.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5130.4	0.0	5130.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	6632.0	0.0	6632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.0
10°-20°	229.4	3.5
20°-30°	381.5	5.8
30°-40°	540.8	8.2
40°-50°	798.3	12.0
50°-60°	1382.7	20.8
60°-70°	1953.1	29.4
70°-80°	1122.7	16.9
80°-90°	154.9	2.3
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°	6632.0	100.0
0°-180°	6632.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522634

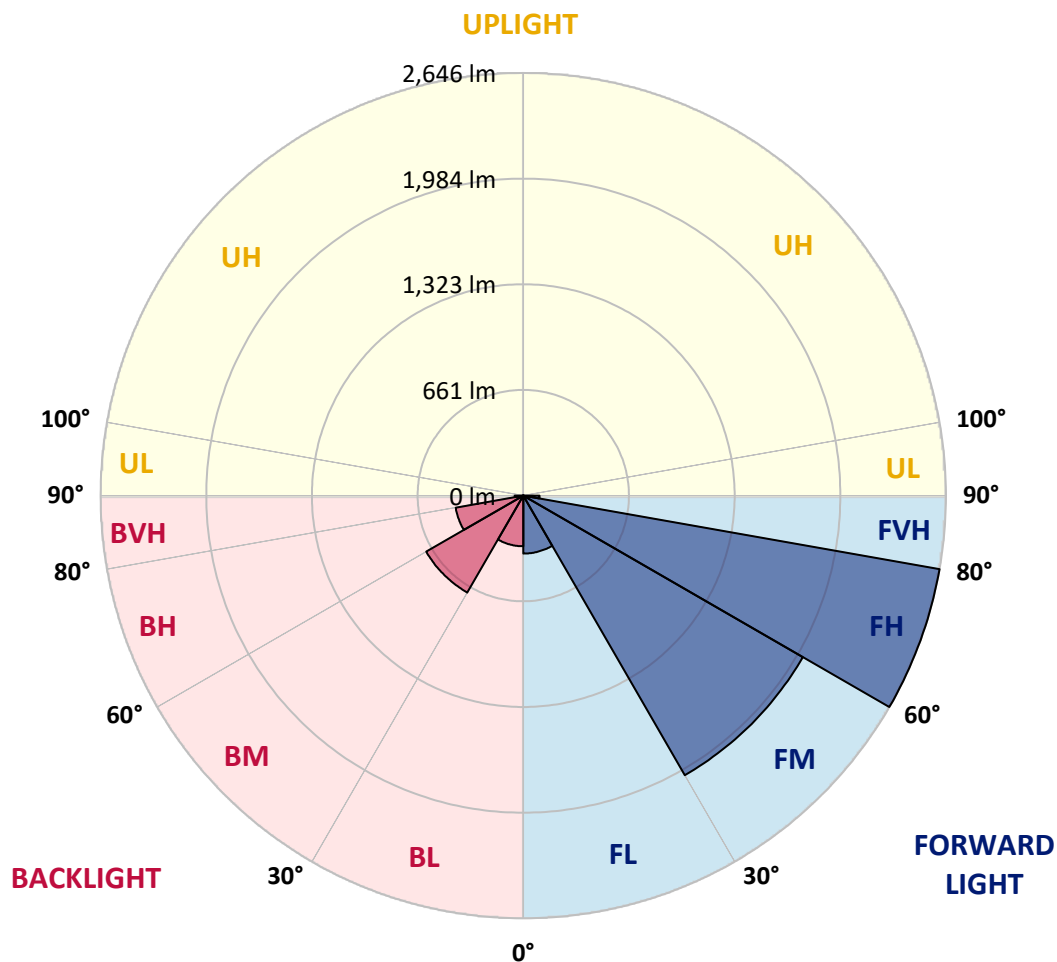
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.7	5.5			
FM	(30°-60°)	2020.6	30.5			
FH	(60°-80°)	2645.9	39.9			G2/5000
FVH	(80°-90°)	101.2	1.5			G2/225
BL	(0°-30°)	316.9	4.8	B1/500		
BM	(30°-60°)	701.1	10.6	B1/1000		
BH	(60°-80°)	429.9	6.5	B1/500		G1/500
BVH	(80°-90°)	53.7	0.8			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: P522634
 CATALOG NUMBER: GALN-SA1C-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8
2.5°	708.7	706.2	705.9	700.6	697.7	692.4	690.3	685.3	679.3	673.2	667.5
5°	764.4	764.4	761.9	754.5	742.8	730.7	725.4	715.8	698.8	684.9	673.2
7.5°	821.6	822.3	817.3	806.3	789.6	770.1	765.1	750.9	726.8	706.6	689.2
10°	870.9	870.9	864.2	849.3	828.3	807.0	802.1	786.1	759.1	733.9	711.2
12.5°	908.5	908.5	899.6	880.1	857.4	838.2	832.6	817.3	792.1	764.1	735.3
15°	933.0	931.2	921.3	899.3	877.3	860.6	856.7	843.9	820.9	792.5	760.2
17.5°	934.1	933.4	923.8	905.3	886.2	874.8	872.3	863.8	845.7	818.7	784.7
20°	913.5	914.9	908.5	895.4	886.2	881.2	880.1	877.3	864.5	839.3	805.2
22.5°	891.5	894.0	887.9	880.8	880.1	885.1	885.8	886.5	878.4	853.9	822.6
25°	886.2	887.9	881.9	875.5	879.4	892.5	895.4	898.2	891.8	871.3	843.2
27.5°	913.1	911.7	900.0	886.2	888.6	906.4	910.3	913.5	910.3	892.5	868.8
30°	989.4	984.8	961.4	920.9	908.2	920.6	924.5	933.4	933.4	920.2	896.5
32.5°	1117.2	1108.3	1065.4	985.9	941.5	934.1	938.0	952.5	960.0	949.7	923.8
35°	1272.3	1263.1	1201.7	1094.8	1002.6	961.0	960.0	976.3	996.2	973.1	939.4
37.5°	1428.1	1418.5	1344.7	1224.7	1091.6	1017.8	1011.4	1017.1	1025.6	983.4	961.0
40°	1583.9	1572.5	1507.9	1369.9	1200.6	1093.1	1076.4	1050.8	1047.3	1017.1	1002.9
42.5°	1738.2	1728.0	1695.3	1532.8	1331.2	1166.5	1141.0	1097.0	1110.4	1092.4	1079.9
45°	1894.0	1894.8	1860.0	1715.5	1488.8	1302.1	1267.7	1198.8	1230.8	1224.0	1231.1
47.5°	2032.1	2030.3	2017.9	1893.0	1684.3	1476.7	1432.3	1352.5	1407.1	1432.0	1486.3
50°	2165.9	2164.8	2165.5	2094.2	1911.4	1684.3	1635.3	1551.6	1674.7	1761.0	1858.2
52.5°	2357.5	2363.6	2320.6	2301.8	2187.5	1929.5	1875.6	1789.0	1990.9	2126.9	2316.7
55°	2549.9	2544.9	2511.2	2530.7	2476.4	2219.8	2163.4	2094.6	2343.0	2491.7	2777.0
57.5°	2663.1	2664.9	2699.3	2794.8	2833.1	2581.8	2530.7	2477.5	2738.7	2844.1	3186.6
60°	2764.9	2773.1	2872.1	3052.4	3156.4	3026.5	2981.1	2929.3	3101.7	3143.6	3542.2
62.5°	2796.9	2822.1	2994.9	3264.6	3471.5	3528.3	3471.9	3357.6	3447.4	3431.1	3783.1
65°	2637.5	2672.0	2981.8	3344.1	3753.0	4004.6	3968.7	3756.5	3742.0	3643.7	3822.5
67.5°	2218.1	2252.5	2650.3	3177.3	3869.4	4417.0	4381.1	4047.5	3920.8	3663.5	3524.4
70°	1622.9	1644.6	2025.0	2675.2	3635.5	4555.4	4567.8	4189.5	3856.9	3393.5	2893.8
72.5°	935.1	983.0	1249.6	1882.0	2970.1	4205.4	4291.7	3894.2	3453.1	2831.0	2023.2
75°	402.1	403.2	577.8	1038.1	2011.5	3380.3	3463.7	3228.1	2711.7	1957.6	1080.3
77.5°	191.3	194.8	254.1	463.5	1107.3	2335.5	2560.5	2280.5	1734.3	940.5	408.1
80°	124.2	126.7	155.4	230.0	543.0	1354.3	1511.1	1315.6	765.1	336.1	176.0
82.5°	75.2	75.9	104.0	140.5	298.8	613.2	722.9	571.0	326.5	201.2	103.6
85°	45.8	46.1	63.2	86.9	181.3	211.9	217.5	215.8	191.6	131.7	55.4
87.5°	22.0	22.7	32.6	41.2	71.3	65.7	62.1	72.0	90.5	71.0	23.8
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: P522634
 CATALOG NUMBER: GALN-SA1C-735-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8	665.8
2.5°	665.1	664.0	661.5	660.4	659.7	660.1	659.7	659.7	660.1	660.1	660.1
5°	668.3	666.5	662.6	662.6	664.7	669.7	674.3	677.8	681.7	681.4	681.4
7.5°	682.1	678.9	674.3	675.7	681.0	688.8	697.0	704.8	712.6	713.3	713.0
10°	702.3	699.1	694.2	695.9	704.5	716.2	726.5	737.8	746.3	748.8	748.1
12.5°	725.4	719.0	714.7	719.7	733.2	748.8	758.8	767.3	773.3	776.9	775.4
15°	748.8	742.8	737.8	748.1	764.4	779.0	784.0	785.4	786.4	790.0	789.3
17.5°	771.5	763.4	761.6	775.1	790.7	797.1	794.2	788.2	783.6	786.4	786.1
20°	791.8	785.4	784.7	798.1	804.2	798.1	786.1	775.4	767.3	768.0	767.6
22.5°	810.9	806.0	806.7	812.3	802.8	782.2	762.3	747.8	738.9	740.7	741.7
25°	832.2	827.2	829.0	819.8	788.2	752.4	723.6	711.2	707.6	711.2	713.7
27.5°	859.9	856.7	855.6	820.2	762.3	708.4	675.7	671.1	674.3	682.1	686.0
30°	889.7	889.7	884.0	814.1	726.8	655.5	627.1	627.8	638.8	649.8	653.7
32.5°	918.5	924.5	906.7	797.8	681.0	604.0	582.4	583.1	592.7	606.2	609.7
35°	942.2	959.6	926.3	768.0	627.1	560.7	544.4	534.8	535.2	545.5	548.3
37.5°	974.9	1007.2	937.6	723.6	569.6	523.8	505.4	488.7	477.7	473.4	473.4
40°	1031.7	1079.2	940.5	658.0	515.3	488.7	462.4	442.5	421.3	402.1	398.5
42.5°	1127.8	1187.8	934.8	582.4	466.3	450.0	424.4	400.0	370.5	343.5	341.4
45°	1298.2	1329.1	919.5	503.9	422.7	412.7	387.9	361.3	330.0	305.9	304.1
47.5°	1571.1	1527.4	899.3	434.4	382.9	380.1	360.9	330.0	298.8	282.1	280.4
50°	1969.6	1839.7	896.5	384.0	351.0	352.4	336.8	308.4	281.1	267.2	265.1
52.5°	2449.4	2217.0	915.3	348.5	322.9	328.3	320.5	294.2	270.1	258.4	256.2
55°	2915.1	2556.3	926.6	320.8	296.7	306.6	307.7	285.7	263.7	252.0	250.6
57.5°	3293.0	2811.8	876.2	295.6	274.0	289.2	297.0	280.7	260.5	251.6	250.2
60°	3556.0	2932.5	732.8	273.3	257.3	275.4	293.1	281.1	268.3	269.4	270.1
62.5°	3639.7	2878.9	549.7	256.6	245.9	270.8	299.5	295.6	282.5	290.7	292.1
65°	3501.0	2657.4	398.5	243.5	236.0	274.0	318.7	306.3	277.5	283.6	283.6
67.5°	3036.4	2289.4	310.2	231.4	224.6	280.0	337.9	305.2	265.8	272.9	266.5
70°	2408.6	1770.9	258.4	217.9	212.6	271.1	339.6	294.2	252.0	253.4	241.3
72.5°	1598.4	1164.4	222.2	205.1	194.1	243.8	325.1	280.0	238.5	230.3	218.3
75°	783.2	580.6	193.8	189.2	170.0	212.2	305.2	266.5	223.9	211.2	204.4
77.5°	303.4	247.0	165.4	168.9	148.0	187.0	278.9	247.4	204.8	187.4	182.1
80°	147.3	140.2	135.6	140.9	121.7	159.3	254.8	230.7	187.0	167.9	160.1
82.5°	91.6	86.6	104.0	109.7	93.7	145.5	241.7	216.5	164.7	139.1	132.7
85°	46.5	49.7	69.6	74.9	67.1	115.7	199.1	162.5	118.9	98.7	99.4
87.5°	17.7	23.8	36.6	39.4	35.8	61.0	109.7	94.8	76.3	51.8	47.9
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)