

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: P522656

Luminaire Tested: **GALN-SA2A-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522656
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-SA2A-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6765 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

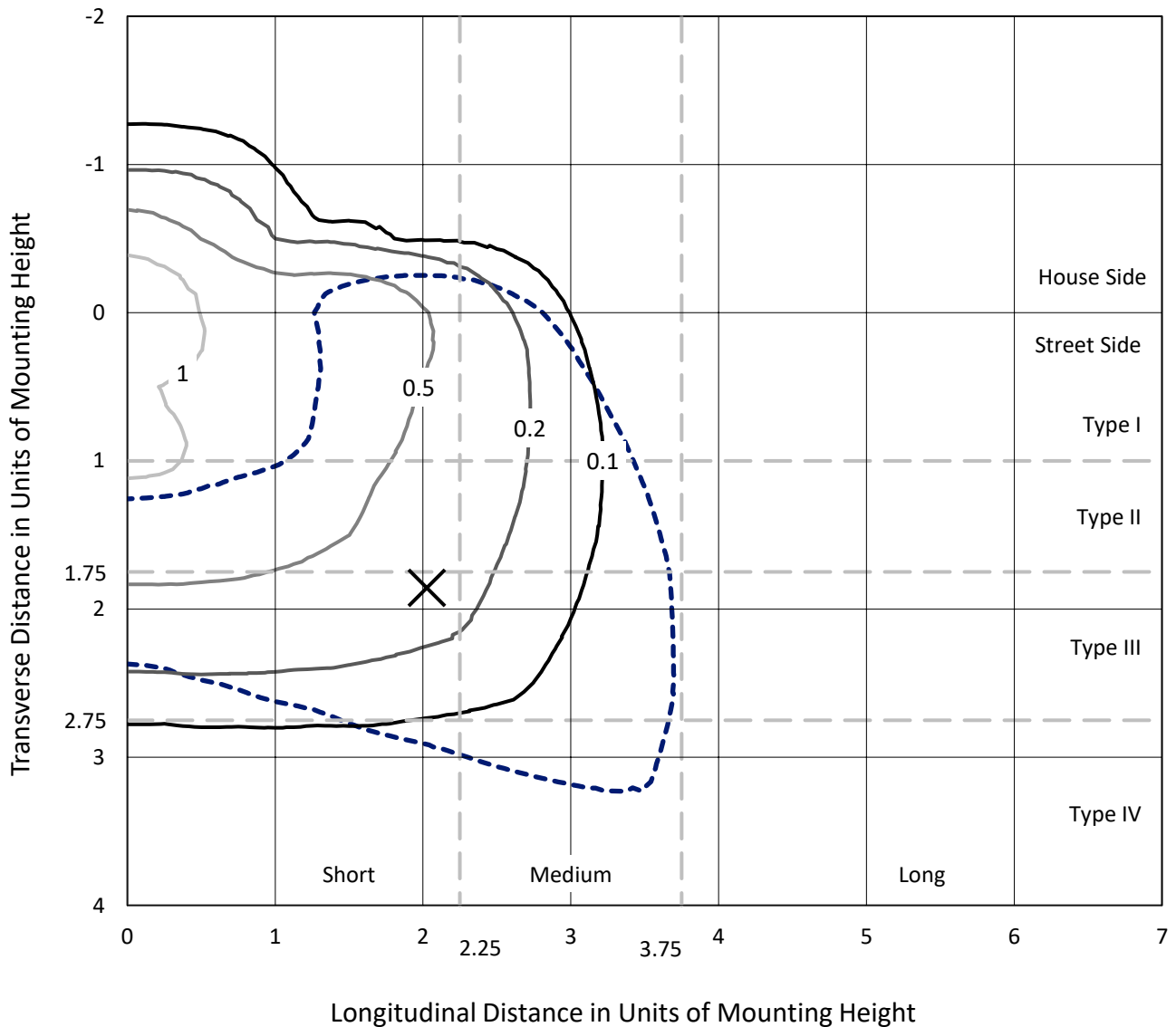
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

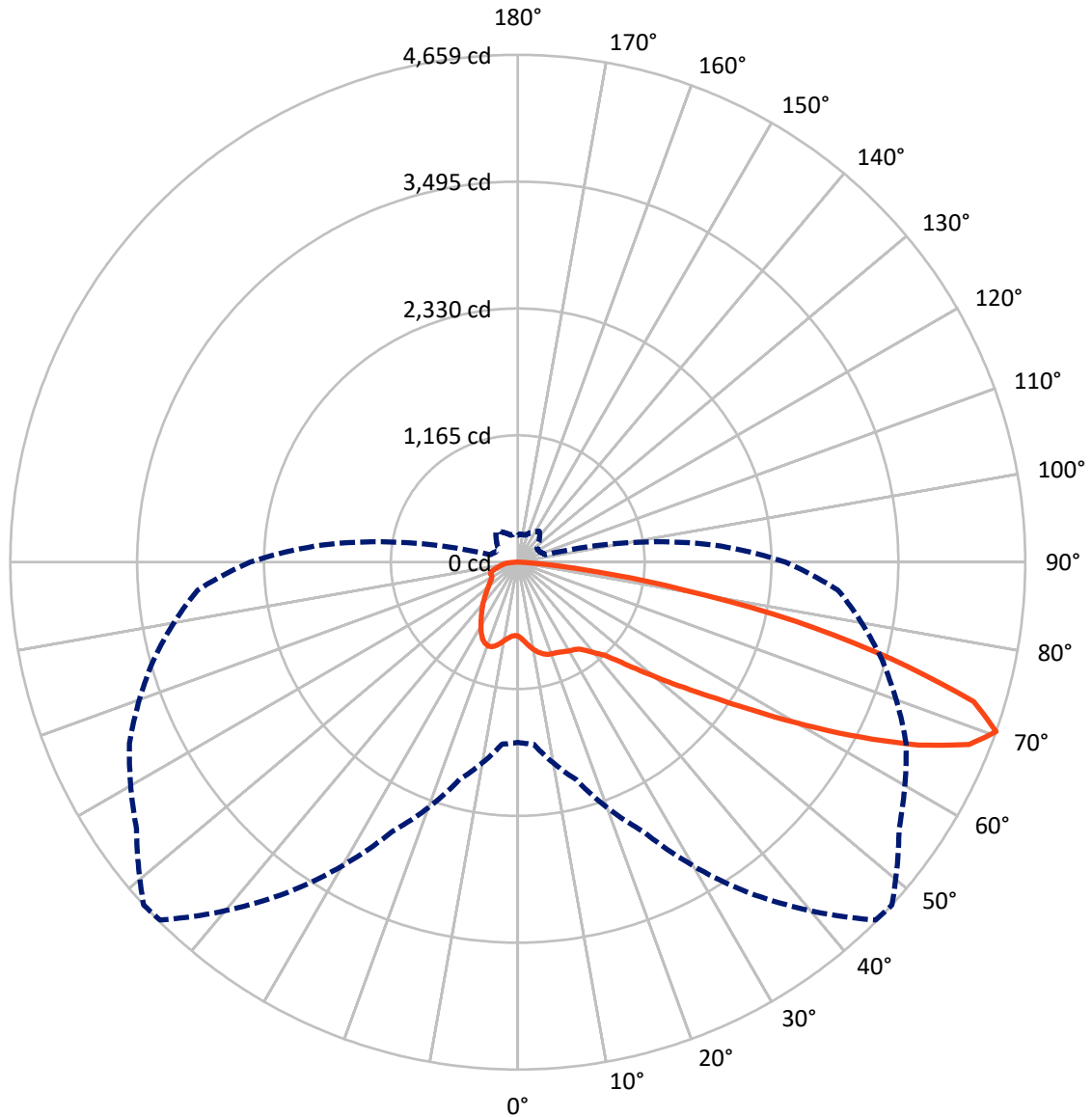
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1531.7	0.0	1531.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5233.3	0.0	5233.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	6765.0	0.0	6765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.0
10°-20°	234.0	3.5
20°-30°	389.2	5.8
30°-40°	551.6	8.2
40°-50°	814.3	12.0
50°-60°	1410.4	20.8
60°-70°	1992.2	29.4
70°-80°	1145.2	16.9
80°-90°	158.0	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°	6765.0	100.0
0°-180°	6765.0	100.0

Coefficient of Utilization



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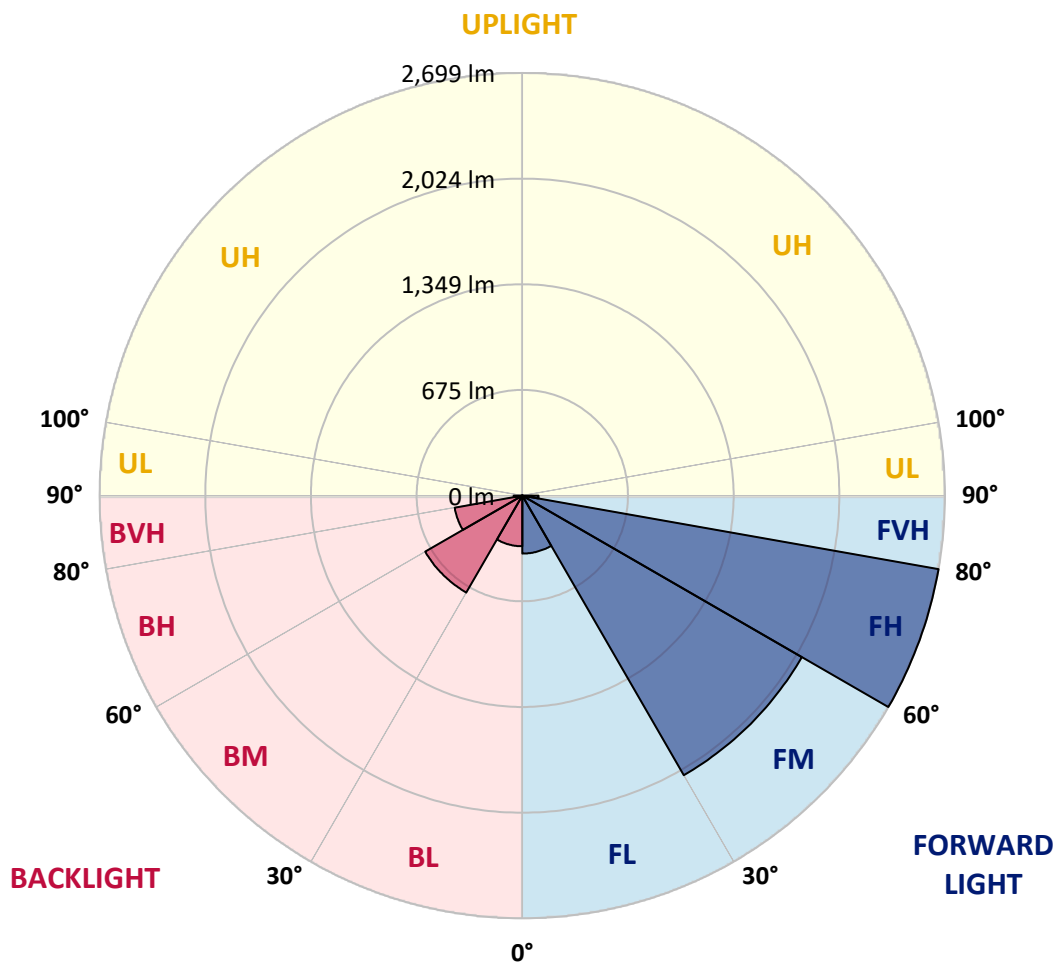
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.9	5.5			
FM	(30°-60°)	2061.2	30.5			
FH	(60°-80°)	2699.0	39.9			G2/5000
FVH	(80°-90°)	103.2	1.5			G2/225
BL	(0°-30°)	323.3	4.8	B1/500		
BM	(30°-60°)	715.1	10.6	B1/1000		
BH	(60°-80°)	438.5	6.5	B1/500		G1/500
BVH	(80°-90°)	54.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	679.1	679.1	679.1	679.1	679.1	679.1	679.1	679.1	679.1	679.1	679.1
2.5°	722.9	720.4	720.0	714.6	711.7	706.3	704.1	699.0	692.9	686.7	680.9
5°	779.8	779.8	777.2	769.6	757.7	745.4	739.9	730.2	712.8	698.7	686.7
7.5°	838.0	838.8	833.7	822.5	805.5	785.6	780.5	766.0	741.4	720.8	703.0
10°	888.4	888.4	881.5	866.3	844.9	823.2	818.1	801.8	774.3	748.6	725.5
12.5°	926.7	926.7	917.7	897.8	874.6	855.1	849.3	833.7	808.0	779.4	750.1
15°	951.7	949.9	939.8	917.3	894.9	877.9	873.9	860.9	837.3	808.4	775.4
17.5°	952.8	952.1	942.3	923.5	903.9	892.3	889.8	881.1	862.7	835.1	800.4
20°	931.8	933.3	926.7	913.3	903.9	898.9	897.8	894.9	881.8	856.1	821.4
22.5°	909.4	911.9	905.7	898.5	897.8	902.8	903.6	904.3	896.0	871.0	839.1
25°	903.9	905.7	899.6	893.1	897.1	910.4	913.3	916.2	909.7	888.7	860.1
27.5°	931.4	930.0	918.0	903.9	906.5	924.6	928.5	931.8	928.5	910.4	886.2
30°	1009.3	1004.6	980.7	939.4	926.4	939.0	943.0	952.1	952.1	938.7	914.4
32.5°	1139.6	1130.5	1086.7	1005.7	960.4	952.8	956.8	971.6	979.2	968.7	942.3
35°	1297.8	1288.4	1225.8	1116.8	1022.7	980.3	979.2	995.9	1016.2	992.6	958.2
37.5°	1456.7	1446.9	1371.6	1249.3	1113.5	1038.2	1031.7	1037.5	1046.2	1003.1	980.3
40°	1615.6	1604.1	1538.2	1397.3	1224.7	1115.0	1098.0	1071.9	1068.3	1037.5	1023.0
42.5°	1773.1	1762.6	1729.3	1563.5	1357.9	1189.9	1163.9	1119.0	1132.7	1114.3	1101.6
45°	1932.0	1932.8	1897.3	1749.9	1518.6	1328.2	1293.1	1222.9	1255.4	1248.6	1255.8
47.5°	2072.9	2071.0	2058.4	1930.9	1718.1	1506.3	1461.1	1379.6	1435.4	1460.7	1516.1
50°	2209.3	2208.2	2209.0	2136.2	1949.8	1718.1	1668.1	1582.7	1708.3	1796.3	1895.5
52.5°	2404.8	2411.0	2367.2	2348.0	2231.4	1968.2	1913.2	1824.9	2030.9	2169.5	2363.2
55°	2601.0	2596.0	2561.6	2581.5	2526.1	2264.4	2206.8	2136.6	2390.0	2541.6	2832.7
57.5°	2716.5	2718.3	2753.4	2850.8	2889.9	2633.6	2581.5	2527.2	2793.6	2901.1	3250.5
60°	2820.4	2828.7	2929.7	3113.6	3219.7	3087.2	3040.9	2988.0	3163.9	3206.7	3613.2
62.5°	2853.0	2878.7	3055.0	3330.1	3541.1	3599.1	3541.5	3424.9	3516.5	3499.9	3859.0
65°	2690.4	2725.5	3041.6	3411.2	3828.2	4084.9	4048.3	3831.8	3817.0	3716.7	3899.2
67.5°	2262.5	2297.7	2703.5	3241.0	3947.0	4505.5	4469.0	4128.7	3999.5	3737.0	3595.1
70°	1655.5	1677.5	2065.6	2728.8	3708.4	4646.7	4659.4	4273.5	3934.3	3461.5	2951.8
72.5°	953.9	1002.8	1274.6	1919.7	3029.6	4289.8	4377.7	3972.3	3522.3	2887.7	2063.8
75°	410.2	411.2	589.3	1058.9	2051.9	3448.1	3533.2	3292.8	2766.1	1996.8	1101.9
77.5°	195.1	198.7	259.2	472.8	1129.5	2382.4	2611.9	2326.3	1769.1	959.3	416.3
80°	126.7	129.2	158.6	234.6	553.9	1381.4	1541.4	1342.0	780.5	342.8	179.6
82.5°	76.7	77.5	106.1	143.4	304.8	625.5	737.4	582.5	333.0	205.3	105.7
85°	46.7	47.1	64.4	88.7	185.0	216.1	221.9	220.1	195.5	134.3	56.5
87.5°	22.4	23.2	33.3	42.0	72.8	67.0	63.4	73.5	92.3	72.4	24.3
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°	679.1	679.1	679.1	679.1	679.1	679.1	679.1	679.1	679.1	679.1	679.1
2.5°	678.4	677.3	674.8	673.7	673.0	673.3	673.0	673.0	673.3	673.3	673.3
5°	681.7	679.8	675.9	675.9	678.0	683.1	687.8	691.4	695.4	695.1	695.1
7.5°	695.8	692.5	687.8	689.3	694.7	702.7	711.0	718.9	726.9	727.6	727.3
10°	716.4	713.2	708.1	709.9	718.6	730.5	741.0	752.6	761.3	763.8	763.1
12.5°	739.9	733.4	729.1	734.1	747.9	763.8	774.0	782.7	788.8	792.4	791.0
15°	763.8	757.7	752.6	763.1	779.8	794.6	799.7	801.1	802.2	805.8	805.1
17.5°	787.0	778.7	776.9	790.6	806.6	813.1	810.2	804.0	799.3	802.2	801.8
20°	807.6	801.1	800.4	814.2	820.3	814.2	801.8	791.0	782.7	783.4	783.0
22.5°	827.2	822.1	822.8	828.6	818.9	797.9	777.6	762.7	753.7	755.5	756.6
25°	848.9	843.8	845.6	836.2	804.0	767.5	738.1	725.5	721.8	725.5	728.0
27.5°	877.1	873.9	872.8	836.6	777.6	722.6	689.3	684.6	687.8	695.8	699.8
30°	907.6	907.6	901.8	830.4	741.4	668.6	639.7	640.4	651.6	662.8	666.8
32.5°	936.9	943.0	924.9	813.8	694.7	616.1	594.1	594.8	604.6	618.3	621.9
35°	961.1	978.9	944.8	783.4	639.7	572.0	555.3	545.5	545.9	556.4	559.3
37.5°	994.4	1027.4	956.4	738.1	581.0	534.3	515.5	498.5	487.3	482.9	482.9
40°	1052.4	1100.9	959.3	671.2	525.6	498.5	471.7	451.4	429.7	410.2	406.5
42.5°	1150.5	1211.6	953.5	594.1	475.7	459.0	433.0	408.0	377.9	350.4	348.3
45°	1324.2	1355.7	938.0	514.0	431.1	421.0	395.7	368.5	336.7	312.0	310.2
47.5°	1602.6	1558.1	917.3	443.1	390.6	387.7	368.2	336.7	304.8	287.8	286.0
50°	2009.1	1876.6	914.4	391.7	358.0	359.5	343.5	314.6	286.7	272.6	270.4
52.5°	2498.6	2261.5	933.6	355.5	329.4	334.9	326.9	300.1	275.5	263.5	261.4
55°	2973.5	2607.5	945.2	327.3	302.6	312.8	313.9	291.4	269.0	257.0	255.6
57.5°	3359.1	2868.2	893.8	301.6	279.5	295.0	303.0	286.3	265.7	256.7	255.2
60°	3627.3	2991.3	747.5	278.7	262.5	280.9	299.0	286.7	273.7	274.8	275.5
62.5°	3712.7	2936.6	560.7	261.7	250.9	276.2	305.5	301.6	288.2	296.5	297.9
65°	3571.2	2710.7	406.5	248.3	240.7	279.5	325.1	312.4	283.1	289.2	289.2
67.5°	3097.3	2335.3	316.4	236.0	229.2	285.6	344.6	311.3	271.1	278.4	271.9
70°	2456.9	1806.4	263.5	222.3	216.8	276.6	346.4	300.1	257.0	258.5	246.2
72.5°	1630.5	1187.7	226.6	209.2	198.0	248.7	331.6	285.6	243.3	234.9	222.6
75°	798.9	592.2	197.7	192.9	173.4	216.5	311.3	271.9	228.4	215.4	208.5
77.5°	309.5	252.0	168.7	172.3	151.0	190.8	284.5	252.3	208.9	191.1	185.7
80°	150.2	143.0	138.3	143.7	124.2	162.5	259.9	235.3	190.8	171.2	163.3
82.5°	93.4	88.3	106.1	111.9	95.6	148.4	246.5	220.8	168.0	141.9	135.4
85°	47.4	50.7	71.0	76.4	68.4	118.0	203.1	165.8	121.3	100.6	101.4
87.5°	18.1	24.3	37.3	40.2	36.6	62.3	111.9	96.7	77.8	52.9	48.9
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)