

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: P522632

Luminaire Tested: **GALN-SA1C-727-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522632  
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-727-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5954 lumens  
Efficiency: N/A  
Efficacy: 104.5 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

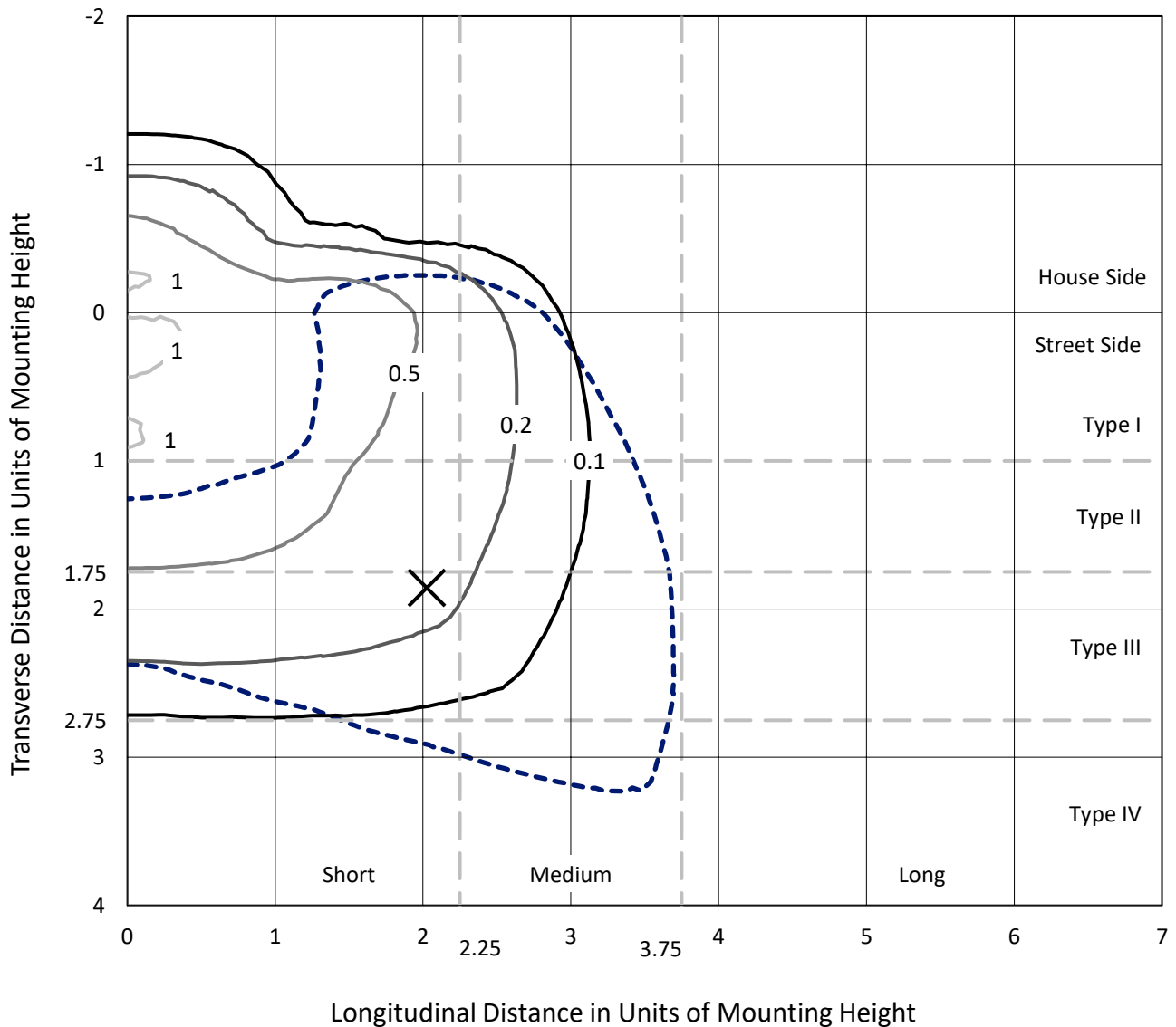
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

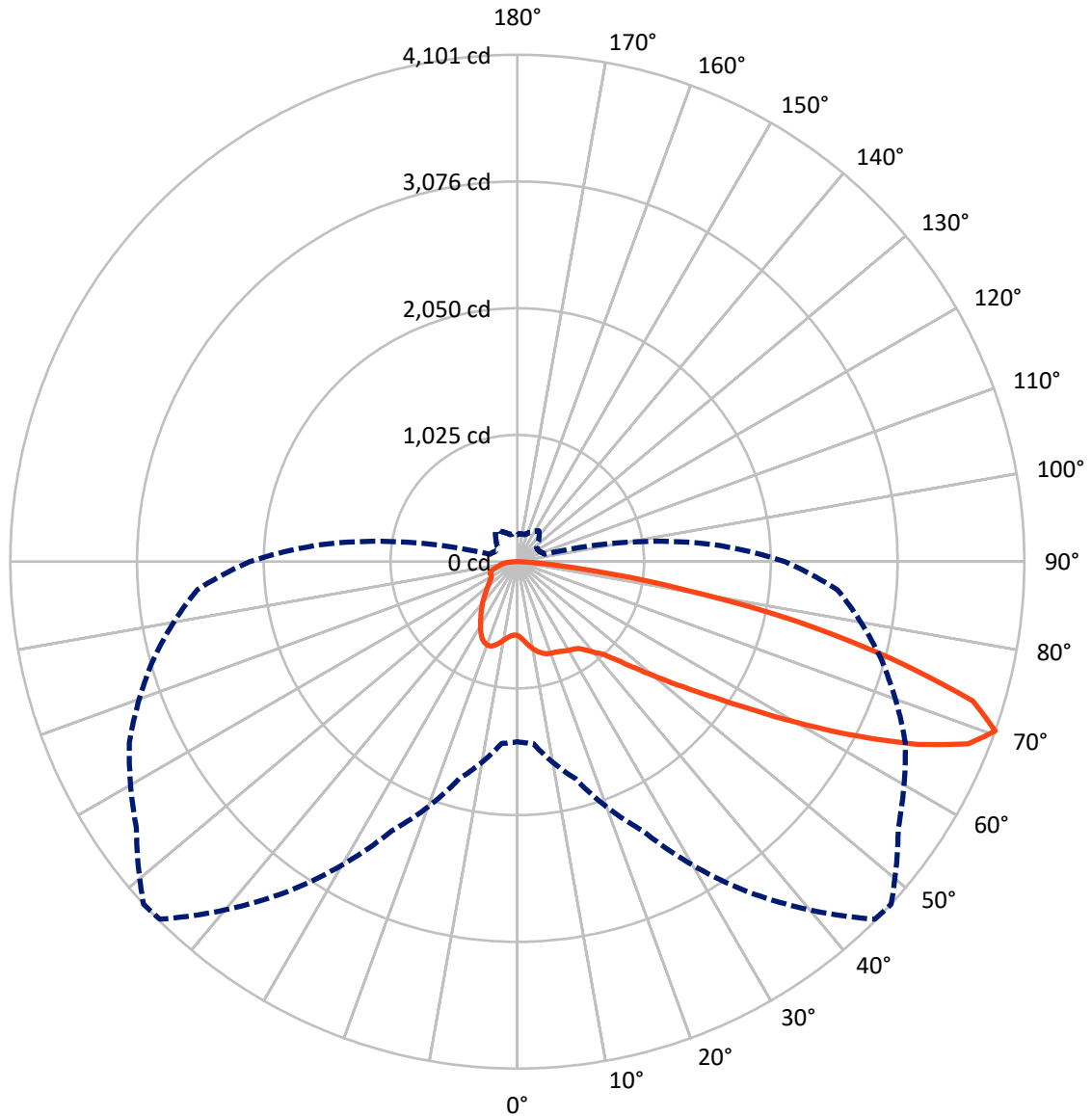
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - 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
<b>House Side</b>	Lumens	1348.1	0.0	1348.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	4605.9	0.0	4605.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	5954.0	0.0	5954.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.6	1.0
10°-20°	206.0	3.5
20°-30°	342.5	5.8
30°-40°	485.5	8.2
40°-50°	716.7	12.0
50°-60°	1241.3	20.8
60°-70°	1753.4	29.4
70°-80°	1007.9	16.9
80°-90°	139.1	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°	5954.0	100.0
0°-180°	5954.0	100.0

**Coefficient of Utilization**



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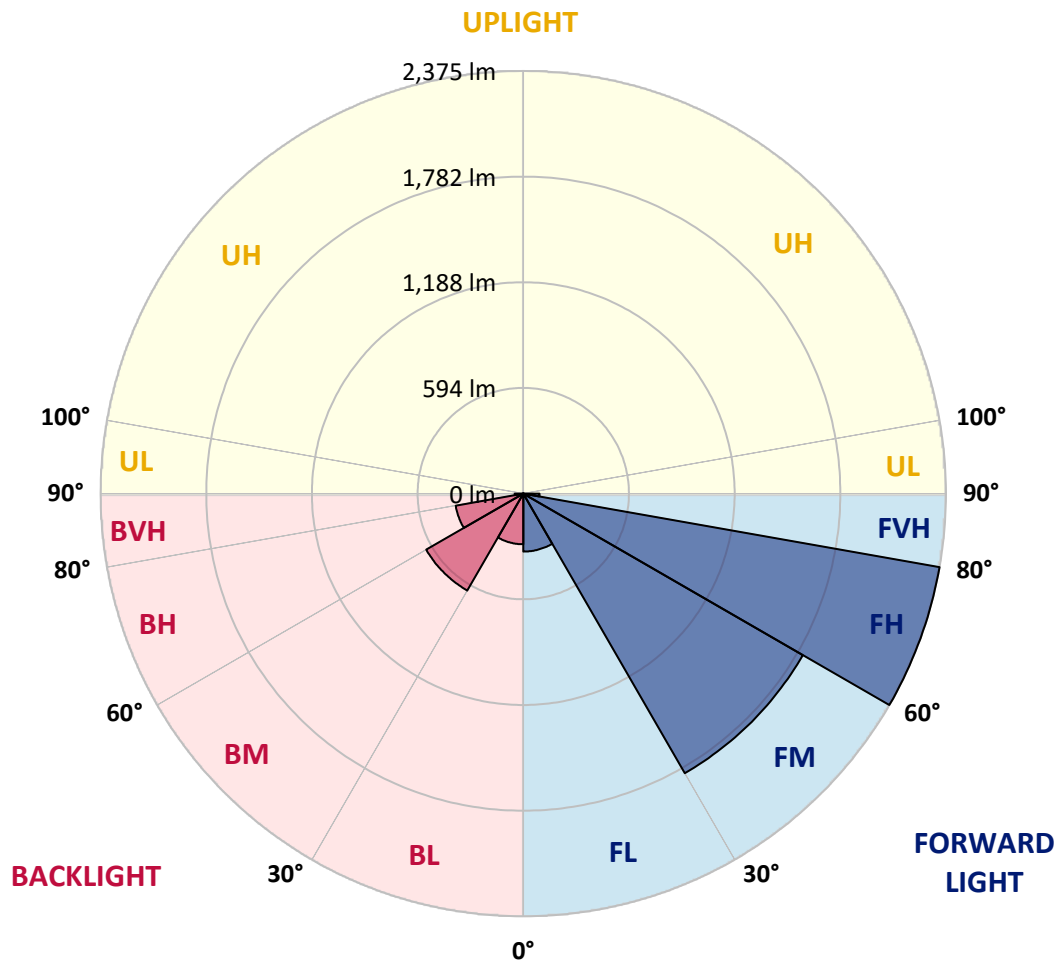
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.6	5.5			
FM (30°-60°)	1814.1	30.5			
FH (60°-80°)	2375.4	39.9			G2/5000
FVH (80°-90°)	90.8	1.5			G1/100
BL (0°-30°)	284.5	4.8	B1/500		
BM (30°-60°)	629.4	10.6	B1/1000		
BH (60°-80°)	385.9	6.5	B1/500		G1/500
BVH (80°-90°)	48.2	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°	597.7	597.7	597.7	597.7	597.7	597.7	597.7	597.7	597.7	597.7	597.7
2.5°	636.3	634.0	633.7	628.9	626.4	621.6	619.7	615.2	609.8	604.4	599.3
5°	686.3	686.3	684.1	677.4	666.8	656.0	651.2	642.6	627.3	614.9	604.4
7.5°	737.6	738.2	733.8	723.9	708.9	691.4	686.9	674.2	652.5	634.3	618.7
10°	781.9	781.9	775.8	762.4	743.6	724.5	720.1	705.7	681.5	658.9	638.5
12.5°	815.6	815.6	807.7	790.1	769.8	752.6	747.5	733.8	711.1	686.0	660.2
15°	837.6	836.0	827.1	807.4	787.6	772.6	769.1	757.7	736.9	711.5	682.5
17.5°	838.6	837.9	829.3	812.8	795.6	785.4	783.1	775.5	759.2	735.0	704.4
20°	820.1	821.4	815.6	803.8	795.6	791.1	790.1	787.6	776.1	753.5	722.9
22.5°	800.3	802.6	797.2	790.8	790.1	794.6	795.2	795.9	788.6	766.6	738.5
25°	795.6	797.2	791.7	786.0	789.5	801.3	803.8	806.4	800.7	782.2	757.0
27.5°	819.8	818.5	808.0	795.6	797.8	813.7	817.2	820.1	817.2	801.3	780.0
30°	888.3	884.1	863.1	826.8	815.3	826.5	830.0	837.9	837.9	826.2	804.8
32.5°	1003.0	995.0	956.5	885.1	845.3	838.6	842.1	855.1	861.8	852.6	829.3
35°	1142.2	1133.9	1078.8	982.9	900.1	862.8	861.8	876.5	894.3	873.6	843.4
37.5°	1282.1	1273.5	1207.2	1099.5	980.0	913.8	908.0	913.1	920.8	882.9	862.8
40°	1422.0	1411.8	1353.8	1229.8	1077.9	981.3	966.3	943.4	940.2	913.1	900.4
42.5°	1560.5	1551.3	1522.0	1376.1	1195.1	1047.3	1024.3	984.8	996.9	980.7	969.5
45°	1700.4	1701.1	1669.8	1540.2	1336.6	1169.0	1138.1	1076.3	1104.9	1098.9	1105.3
47.5°	1824.4	1822.8	1811.6	1699.5	1512.1	1325.7	1285.9	1214.2	1263.3	1285.6	1334.3
50°	1944.5	1943.5	1944.2	1880.1	1716.0	1512.1	1468.1	1393.0	1503.5	1580.9	1668.2
52.5°	2116.5	2121.9	2083.4	2066.5	1963.9	1732.3	1683.8	1606.1	1787.4	1909.4	2079.9
55°	2289.2	2284.7	2254.5	2272.0	2223.3	1992.9	1942.2	1880.4	2103.5	2237.0	2493.1
57.5°	2390.8	2392.4	2423.3	2509.0	2543.5	2317.9	2272.0	2224.2	2458.7	2553.3	2860.8
60°	2482.3	2489.6	2578.5	2740.4	2833.7	2717.1	2676.3	2629.8	2784.6	2822.2	3180.0
62.5°	2511.0	2533.6	2688.7	2930.9	3116.6	3167.6	3116.9	3014.4	3095.0	3080.3	3396.4
65°	2367.9	2398.8	2677.0	3002.2	3369.3	3595.2	3563.0	3372.5	3359.4	3271.2	3431.7
67.5°	1991.3	2022.2	2379.4	2852.5	3473.8	3965.4	3933.2	3633.7	3520.0	3289.0	3164.1
70°	1457.0	1476.4	1818.0	2401.7	3263.8	4089.7	4100.8	3761.2	3462.6	3046.5	2597.9
72.5°	839.5	882.5	1121.8	1689.6	2666.4	3775.5	3852.9	3496.1	3100.1	2541.5	1816.4
75°	361.0	361.9	518.7	931.9	1805.9	3034.7	3109.6	2898.1	2434.5	1757.4	969.8
77.5°	171.7	174.9	228.1	416.1	994.1	2096.8	2298.8	2047.4	1557.0	844.3	366.4
80°	111.5	113.7	139.6	206.5	487.5	1215.8	1356.6	1181.1	686.9	301.7	158.0
82.5°	67.5	68.2	93.4	126.2	268.3	550.6	649.0	512.6	293.1	180.7	93.0
85°	41.1	41.4	56.7	78.1	162.8	190.2	195.3	193.7	172.0	118.2	49.7
87.5°	19.8	20.4	29.3	37.0	64.0	58.9	55.8	64.7	81.2	63.7	21.3
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°	597.7	597.7	597.7	597.7	597.7	597.7	597.7	597.7	597.7	597.7	597.7
2.5°	597.1	596.1	593.9	592.9	592.3	592.6	592.3	592.3	592.6	592.6	592.6
5°	599.9	598.3	594.8	594.8	596.8	601.2	605.4	608.5	612.0	611.7	611.7
7.5°	612.4	609.5	605.4	606.6	611.4	618.4	625.7	632.8	639.8	640.4	640.1
10°	630.5	627.7	623.2	624.8	632.4	643.0	652.2	662.4	670.0	672.3	671.6
12.5°	651.2	645.5	641.7	646.1	658.2	672.3	681.2	688.8	694.2	697.4	696.2
15°	672.3	666.8	662.4	671.6	686.3	699.3	703.8	705.1	706.0	709.2	708.6
17.5°	692.7	685.3	683.7	695.8	709.9	715.6	713.0	707.6	703.5	706.0	705.7
20°	710.8	705.1	704.4	716.6	722.0	716.6	705.7	696.2	688.8	689.5	689.2
22.5°	728.0	723.6	724.2	729.3	720.7	702.2	684.4	671.3	663.3	664.9	665.9
25°	747.1	742.7	744.3	736.0	707.6	675.5	649.6	638.5	635.3	638.5	640.7
27.5°	772.0	769.1	768.2	736.3	684.4	635.9	606.6	602.5	605.4	612.4	615.9
30°	798.8	798.8	793.7	730.9	652.5	588.5	563.0	563.6	573.5	583.4	586.9
32.5°	824.6	830.0	814.0	716.2	611.4	542.3	522.8	523.5	532.1	544.2	547.4
35°	845.9	861.5	831.6	689.5	563.0	503.4	488.7	480.1	480.5	489.7	492.3
37.5°	875.2	904.2	841.8	649.6	511.4	470.3	453.7	438.7	428.8	425.0	425.0
40°	926.2	968.9	844.3	590.7	462.6	438.7	415.1	397.3	378.2	361.0	357.8
42.5°	1012.5	1066.4	839.2	522.8	418.7	404.0	381.1	359.1	332.6	308.4	306.5
45°	1165.5	1193.2	825.5	452.4	379.5	370.5	348.2	324.3	296.3	274.6	273.0
47.5°	1410.5	1371.3	807.4	390.0	343.8	341.2	324.0	296.3	268.3	253.3	251.7
50°	1768.3	1651.7	804.8	344.7	315.1	316.4	302.4	276.9	252.3	239.9	238.0
52.5°	2199.0	1990.3	821.7	312.9	289.9	294.7	287.7	264.1	242.5	231.9	230.0
55°	2617.1	2294.9	831.9	288.0	266.4	275.3	276.2	256.5	236.7	226.2	224.9
57.5°	2956.4	2524.3	786.6	265.4	246.0	259.7	266.7	252.0	233.9	225.9	224.6
60°	3192.5	2632.7	657.9	245.3	231.0	247.2	263.2	252.3	240.9	241.8	242.5
62.5°	3267.7	2584.6	493.5	230.4	220.8	243.1	268.9	265.4	253.6	260.9	262.2
65°	3143.1	2385.7	357.8	218.6	211.9	246.0	286.1	275.0	249.2	254.6	254.6
67.5°	2726.0	2055.3	278.5	207.7	201.7	251.4	303.3	274.0	238.6	245.0	239.3
70°	2162.4	1589.9	231.9	195.6	190.8	243.4	304.9	264.1	226.2	227.5	216.7
72.5°	1435.0	1045.4	199.4	184.2	174.3	218.9	291.8	251.4	214.1	206.8	195.9
75°	703.2	521.2	174.0	169.8	152.6	190.5	274.0	239.3	201.0	189.6	183.5
77.5°	272.4	221.8	148.5	151.7	132.9	167.9	250.4	222.1	183.8	168.2	163.4
80°	132.2	125.9	121.7	126.5	109.3	143.1	228.8	207.1	167.9	150.7	143.7
82.5°	82.2	77.7	93.4	98.5	84.1	130.6	217.0	194.4	147.8	124.9	119.2
85°	41.7	44.6	62.4	67.2	60.2	103.9	178.7	145.9	106.7	88.6	89.2
87.5°	15.9	21.3	32.8	35.4	32.2	54.8	98.5	85.1	68.5	46.5	43.0
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)