

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: P452073

Luminaire Tested: **GALN-SA3A-727-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-727-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8259 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

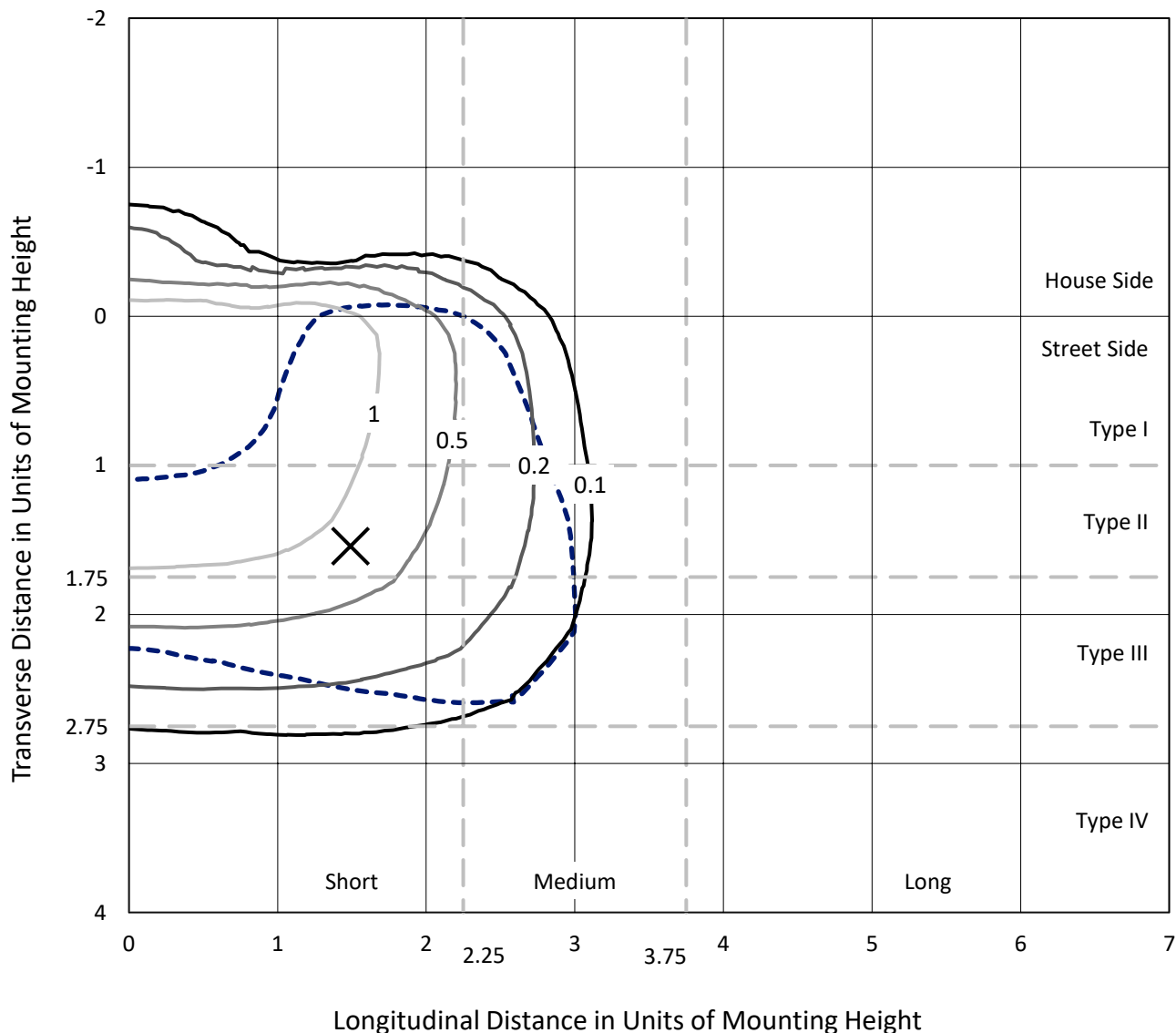
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452073  
 CATALOG NUMBER: GALN-SA3A-727-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

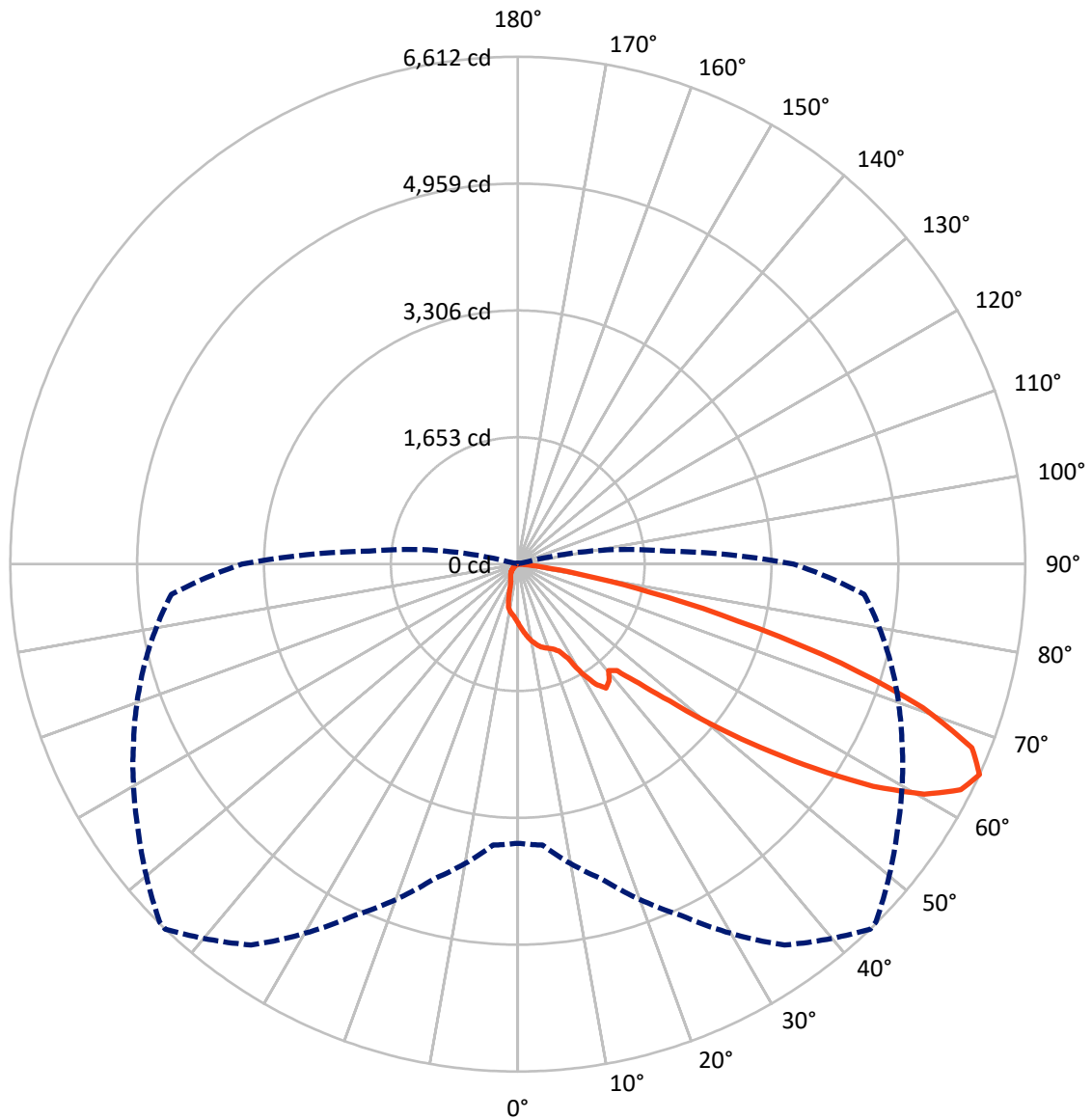
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P452073  
CATALOG NUMBER: GALN-SA3A-727-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P452073

CATALOG NUMBER: GALN-SA3A-727-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	760.9	0.0	760.9
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	7498.1	0.0	7498.1
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	8259.0	0.0	8259.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	0.9
10°-20°	230.1	2.8
20°-30°	390.2	4.7
30°-40°	648.7	7.9
40°-50°	1132.7	13.7
50°-60°	2212.8	26.8
60°-70°	2567.4	31.1
70°-80°	934.9	11.3
80°-90°	65.9	0.8
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°	8259.0	100.0
0°-180°	8259.0	100.0



REPORT NUMBER: P452073

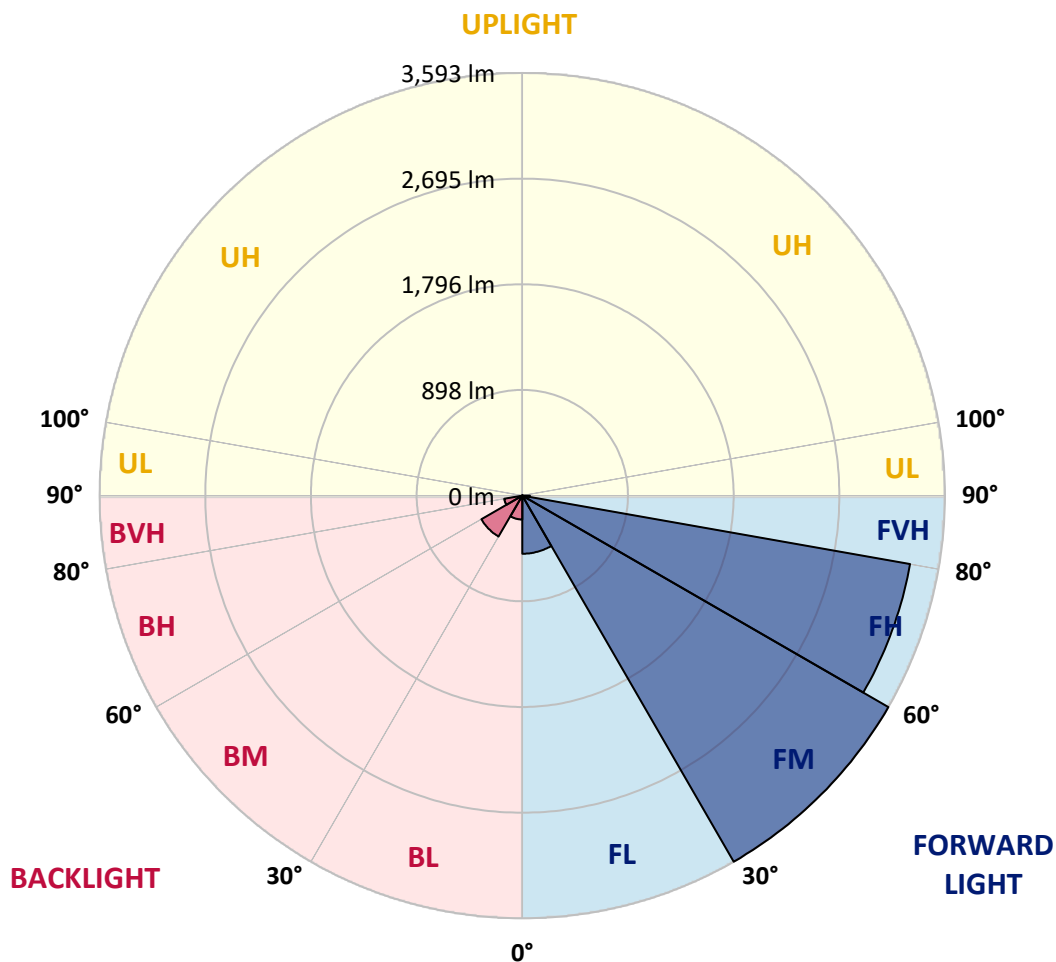
CATALOG NUMBER: GALN-SA3A-727-U-T4W-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	494.0	6.0			
FM	(30°-60°)	3592.7	43.5			
FH	(60°-80°)	3346.4	40.5			G2/5000
FVH	(80°-90°)	65.0	0.8			G1/100
BL	(0°-30°)	202.7	2.5	B1/500		
BM	(30°-60°)	401.5	4.9	B1/1000		
BH	(60°-80°)	155.8	1.9	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





REPORT NUMBER: P452073

CATALOG NUMBER: GALN-SA3A-727-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7
2.5°	865.2	861.4	859.5	849.4	841.9	832.4	832.4	820.4	806.5	791.4	777.5
5°	961.8	955.5	947.3	938.4	920.8	895.5	895.5	870.3	841.2	815.4	787.0
7.5°	1054.5	1048.9	1035.0	1017.9	988.9	962.4	960.5	923.9	889.2	850.1	809.7
10°	1136.0	1131.5	1119.6	1086.7	1056.4	1021.7	1021.1	980.1	939.7	891.7	841.9
12.5°	1192.8	1193.4	1177.6	1146.1	1106.9	1074.1	1071.6	1031.2	988.9	937.2	876.0
15°	1233.1	1233.1	1216.7	1181.4	1146.1	1117.0	1114.5	1079.2	1035.6	979.5	913.2
17.5°	1244.5	1248.3	1230.6	1199.1	1170.7	1145.4	1144.8	1115.1	1080.4	1026.2	951.1
20°	1240.1	1243.9	1230.0	1205.4	1185.8	1171.3	1169.4	1157.4	1125.2	1074.1	991.4
22.5°	1230.6	1234.4	1224.3	1209.8	1200.3	1204.7	1201.6	1211.7	1194.7	1132.8	1039.4
25°	1232.5	1236.3	1228.7	1220.5	1228.7	1255.9	1264.1	1307.6	1292.5	1207.3	1091.2
27.5°	1291.8	1299.4	1288.7	1292.5	1321.5	1384.6	1400.4	1475.5	1408.6	1301.9	1171.9
30°	1423.7	1418.7	1398.5	1416.8	1517.8	1651.6	1647.1	1635.2	1530.4	1411.1	1267.9
32.5°	1543.6	1539.2	1538.0	1616.9	1799.9	1864.9	1861.7	1745.6	1639.6	1536.1	1362.5
35°	1592.2	1575.2	1571.4	1762.6	2068.7	1982.9	1963.3	1791.0	1772.1	1672.4	1459.1
37.5°	1738.7	1726.7	1668.0	1786.6	1961.4	1933.0	1917.9	1869.3	1913.5	1792.9	1568.3
40°	2040.3	2006.9	1953.9	1837.7	1809.3	1821.3	1836.5	1969.6	2080.7	1957.6	1714.0
42.5°	2415.2	2407.6	2309.2	2092.7	1880.0	1896.4	1916.0	2179.2	2321.1	2205.7	1952.0
45°	2865.1	2875.9	2733.9	2478.3	2199.3	2213.2	2241.6	2488.4	2646.8	2591.3	2326.2
47.5°	3274.1	3265.9	3217.9	2952.2	2694.8	2663.8	2709.9	2885.3	3097.4	3106.2	2790.7
50°	3685.6	3729.1	3657.8	3553.7	3362.4	3297.4	3280.4	3366.2	3689.3	3647.1	3348.6
52.5°	4276.9	4299.6	4165.8	4139.3	4182.9	3972.1	3955.0	3975.9	4264.9	4119.8	3766.3
55°	4648.6	4635.3	4585.5	4792.5	4964.8	4701.6	4680.2	4596.2	4742.6	4453.6	4168.3
57.5°	4766.0	4784.9	4901.0	5275.3	5683.0	5459.6	5420.4	5181.9	5087.2	4764.7	4538.2
60°	4713.6	4748.3	4998.9	5555.5	6120.9	6087.5	6054.0	5653.3	5334.6	5024.7	4797.5
62.5°	4340.6	4389.2	4790.0	5505.6	6269.2	6478.1	6436.5	5947.4	5499.3	5150.9	4843.0
65°	3637.6	3673.6	4249.1	5053.1	6058.5	6611.9	6596.8	6039.5	5525.2	5035.5	4531.9
67.5°	2593.1	2715.6	3248.8	4258.6	5434.9	6383.5	6409.3	5929.1	5282.2	4536.3	3753.1
70°	1630.1	1713.4	2095.8	3048.8	4357.0	5600.3	5685.5	5423.6	4584.2	3536.0	2512.4
72.5°	777.5	839.3	1112.0	1929.9	3075.3	4406.3	4473.8	4452.3	3544.8	2227.7	1296.3
75°	346.5	369.8	530.7	985.1	1985.4	2961.7	3136.5	3165.5	2215.1	1089.9	504.2
77.5°	176.7	177.3	248.6	477.1	991.4	1767.0	1801.8	1903.4	1201.0	480.3	175.4
80°	94.0	100.3	131.9	225.3	514.3	870.3	865.9	951.7	532.6	235.4	58.7
82.5°	42.3	46.7	74.5	118.0	251.2	330.1	355.9	389.4	228.5	150.2	25.9
85°	12.6	15.1	36.6	59.3	90.9	95.3	106.7	137.6	129.4	106.7	13.3
87.5°	1.9	1.9	15.1	16.4	13.3	17.0	17.7	19.6	41.7	39.1	6.9
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: P452073

CATALOG NUMBER: GALN-SA3A-727-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7
2.5°	769.9	765.5	749.7	736.5	725.1	718.2	710.0	704.9	702.4	700.5	701.1
5°	773.1	762.4	735.2	713.8	697.4	679.7	667.7	660.8	657.6	652.5	652.5
7.5°	790.8	773.7	735.8	703.0	674.6	650.7	627.9	619.7	614.0	612.8	611.5
10°	816.0	794.5	742.8	697.4	657.0	624.1	592.0	563.6	541.5	528.2	526.3
12.5°	847.6	816.6	753.5	693.6	641.8	583.8	498.6	441.1	402.6	390.6	392.5
15°	876.6	843.1	764.2	690.4	614.0	484.0	387.5	321.9	302.3	300.4	301.0
17.5°	911.3	871.5	776.9	686.0	537.7	369.8	287.8	270.1	273.9	280.2	279.6
20°	947.3	901.8	792.0	659.5	429.1	278.3	254.3	256.2	261.9	267.6	268.8
22.5°	985.8	936.5	809.7	595.7	327.5	242.3	241.1	243.6	249.3	255.6	256.9
25°	1038.8	980.1	822.9	512.4	248.0	224.0	226.6	231.0	236.0	243.0	244.2
27.5°	1106.9	1038.8	829.9	403.9	214.6	207.6	208.3	214.6	220.9	227.2	227.2
30°	1195.3	1108.8	816.0	305.4	198.2	191.9	189.3	193.1	201.3	207.6	208.3
32.5°	1274.2	1175.1	779.4	233.5	186.2	177.3	171.0	171.7	174.8	178.6	179.2
35°	1353.1	1239.5	716.9	196.3	173.5	163.5	154.0	148.9	146.4	144.5	146.4
37.5°	1454.0	1319.6	633.6	178.6	162.8	150.2	136.9	126.2	117.4	111.7	113.0
40°	1584.0	1430.7	535.2	167.2	152.7	137.6	119.9	106.0	90.9	85.8	83.3
42.5°	1798.6	1599.2	431.7	157.8	142.6	124.3	102.2	83.3	69.4	64.4	65.6
45°	2137.5	1811.9	332.6	147.7	132.5	109.8	85.8	65.6	54.3	51.7	53.0
47.5°	2586.8	2087.0	256.2	136.3	119.9	94.0	67.5	51.7	44.8	44.2	43.5
50°	3009.7	2343.2	213.9	123.7	104.8	78.3	55.5	43.5	39.1	38.5	38.5
52.5°	3392.1	2526.9	174.2	109.2	88.4	64.4	46.7	38.5	34.7	32.8	32.8
55°	3732.3	2646.8	141.4	91.5	69.4	51.1	40.4	34.7	30.3	27.8	27.1
57.5°	3989.1	2661.3	106.0	73.2	51.7	39.8	34.7	30.3	25.2	22.1	20.8
60°	4098.9	2535.7	78.3	55.5	38.5	31.6	27.8	24.6	18.9	15.8	15.1
62.5°	3988.5	2291.5	58.1	42.3	29.7	23.4	19.6	18.3	13.3	9.5	8.8
65°	3592.8	1938.7	46.1	32.2	22.1	17.0	12.6	12.0	8.2	4.4	3.8
67.5°	2878.4	1518.4	36.6	24.0	15.8	11.4	8.2	7.6	4.4	1.3	1.3
70°	1871.8	970.6	29.7	17.7	10.1	7.6	5.0	3.8	2.5	0.6	0.0
72.5°	925.8	453.8	24.0	13.9	6.9	3.8	1.9	1.3	1.9	0.0	0.0
75°	359.1	161.6	17.7	9.5	3.8	1.9	1.3	0.0	0.6	0.0	0.0
77.5°	119.3	53.6	10.7	5.0	2.5	1.3	0.0	0.0	0.0	0.0	0.0
80°	44.2	20.8	5.7	3.2	1.3	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	17.7	8.2	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	5.0	2.5	1.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	3.8	2.5	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0
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)