

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: P451121

Luminaire Tested: **GALN-SA2A-727-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6301 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

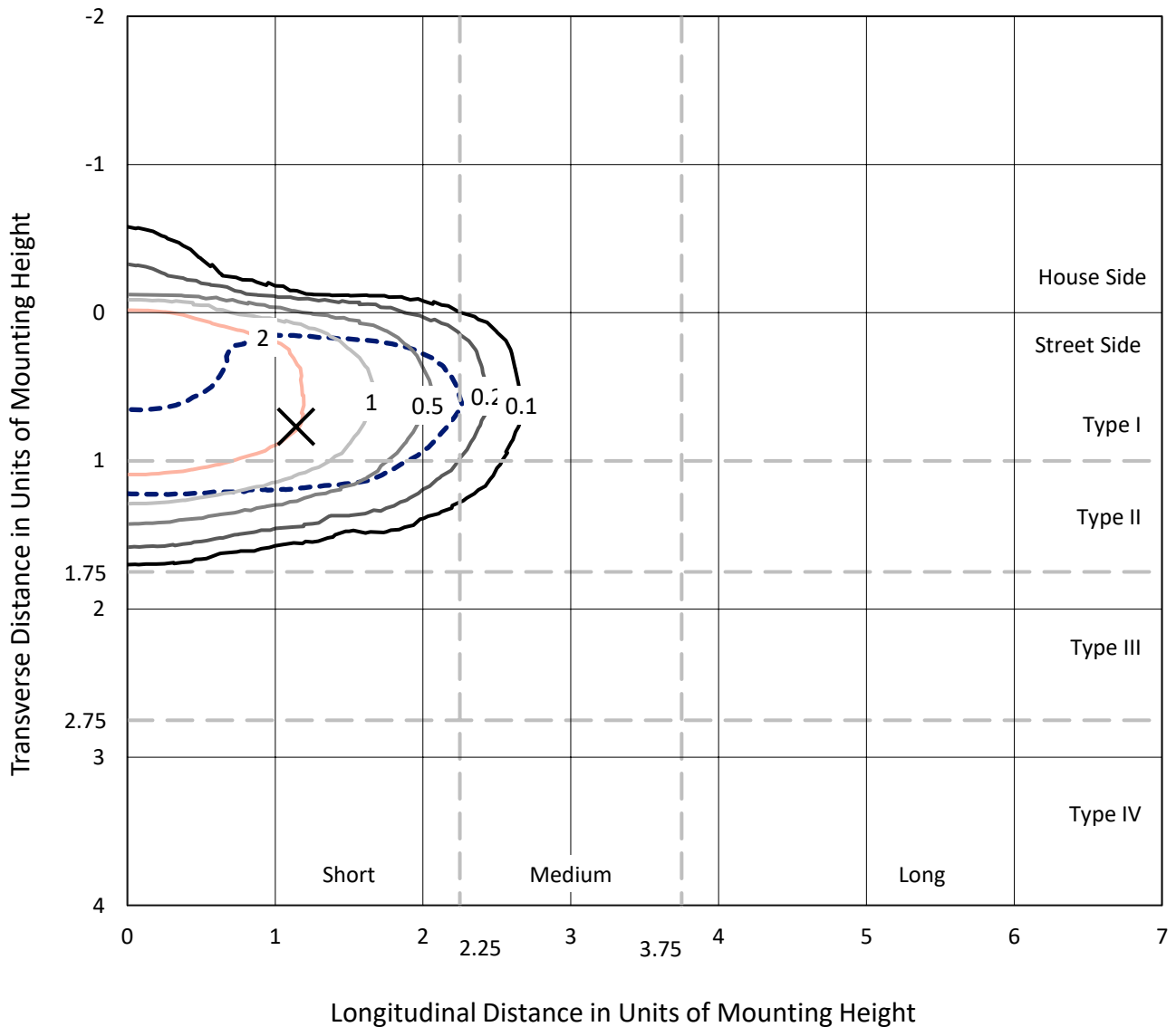
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

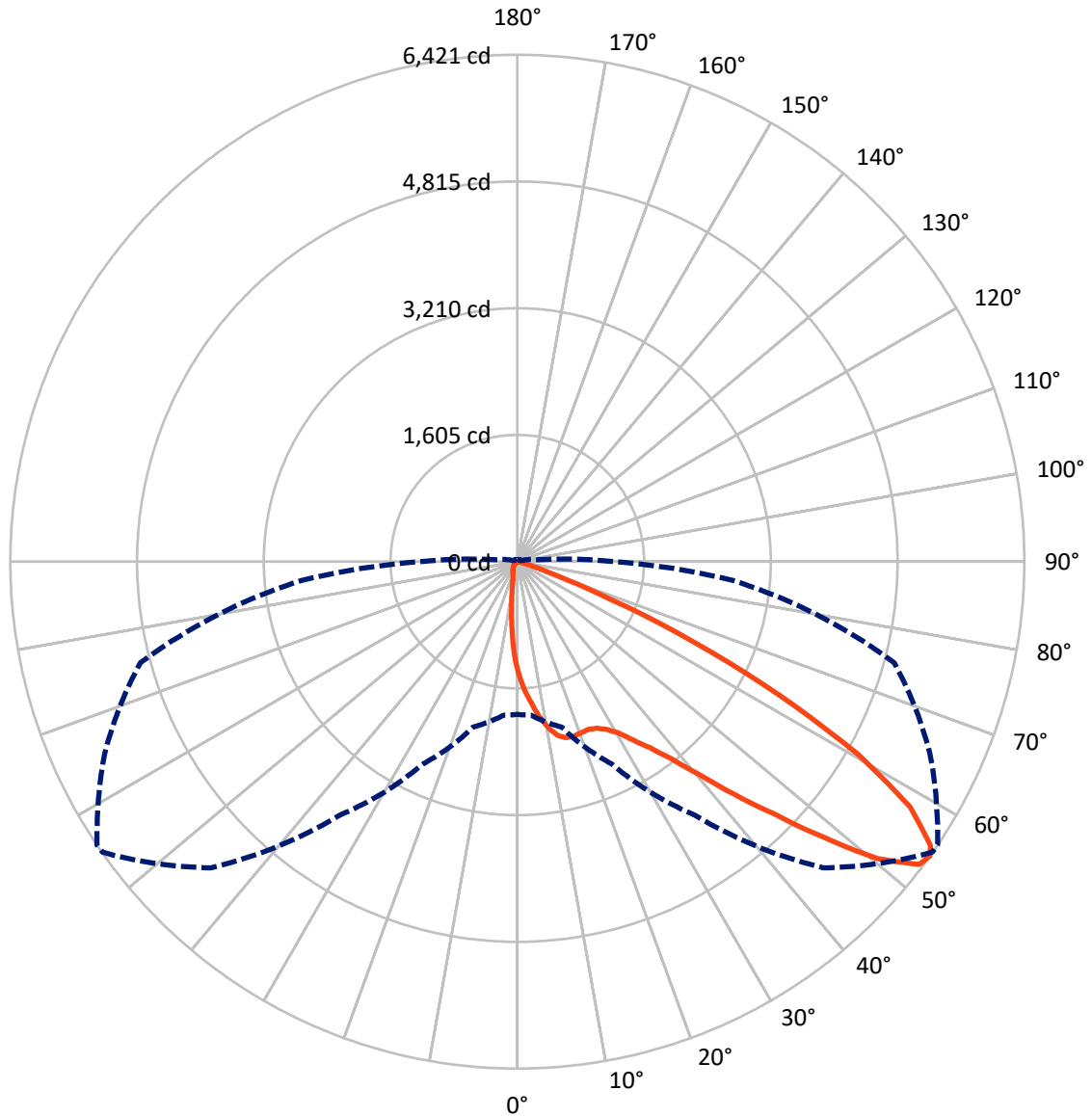
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	298.0	0.0	298.0
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	6003.0	0.0	6003.0
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	6301.0	0.0	6301.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.7	2.0
10°-20°	334.4	5.3
20°-30°	579.2	9.2
30°-40°	999.7	15.9
40°-50°	1701.6	27.0
50°-60°	1683.9	26.7
60°-70°	768.6	12.2
70°-80°	98.7	1.6
80°-90°	11.1	0.2
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°	6301.0	100.0
0°-180°	6301.0	100.0

**Coefficient of Utilization**



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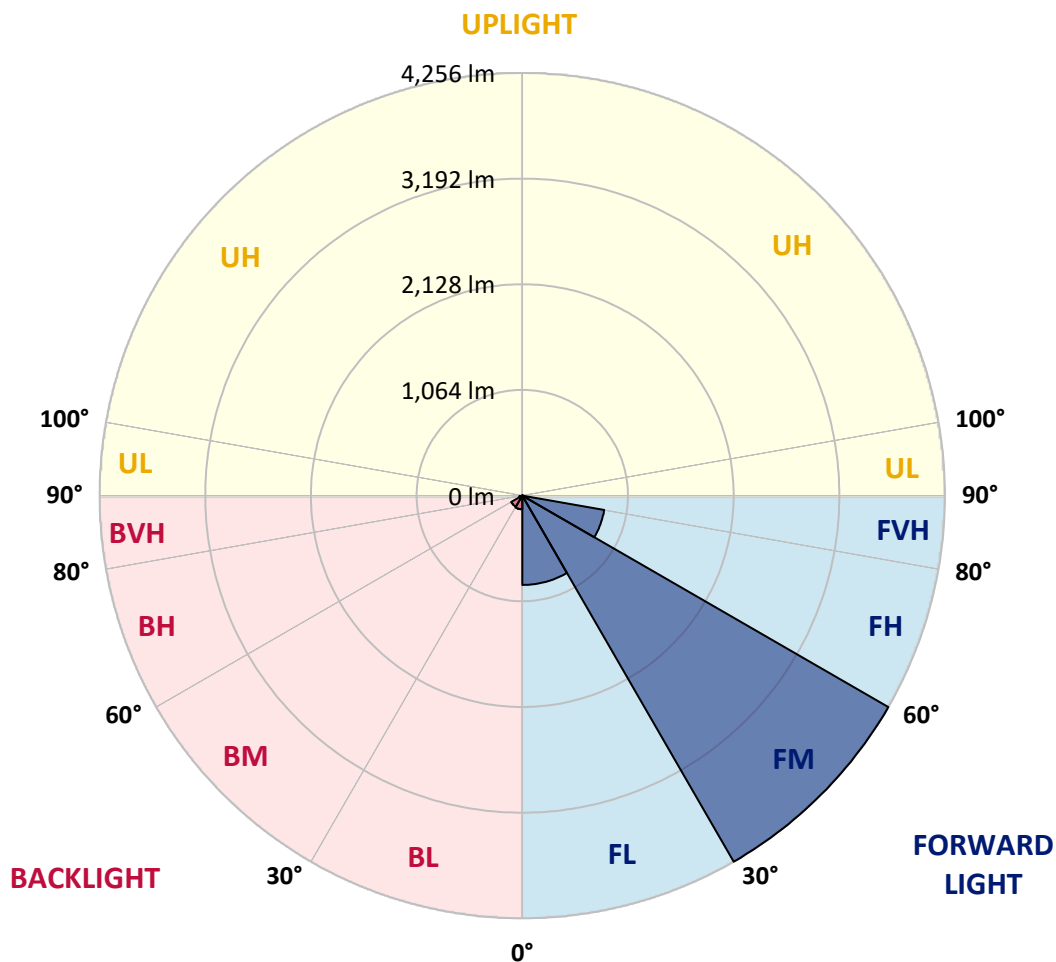
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	899.5	14.3			
FM	(30°-60°)	4256.2	67.5			
FH	(60°-80°)	837.5	13.3			G1/1800
FVH	(80°-90°)	9.9	0.2			G0/10
BL	(0°-30°)	137.8	2.2	B1/500		
BM	(30°-60°)	129.1	2.0	B0/220		
BH	(60°-80°)	29.8	0.5	B0/110		G0/110
BVH	(80°-90°)	1.2	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9
2.5°	1779.1	1766.8	1749.8	1736.6	1705.6	1660.9	1613.7	1613.7	1568.2	1504.9	1440.3
5°	2052.0	2043.9	2027.4	1993.4	1958.5	1896.0	1801.2	1784.6	1703.4	1588.7	1467.9
7.5°	2163.0	2166.8	2167.7	2158.7	2142.2	2080.5	1986.6	1975.1	1845.4	1691.5	1504.1
10°	2056.7	2075.4	2093.7	2130.7	2183.0	2197.8	2144.7	2132.8	2005.3	1795.7	1543.2
12.5°	1898.6	1908.8	1919.0	1977.2	2082.2	2202.5	2258.2	2257.8	2149.8	1899.4	1592.9
15°	1825.0	1833.9	1834.8	1860.7	1951.7	2126.8	2306.7	2313.0	2290.9	2027.4	1646.5
17.5°	1840.3	1847.5	1841.6	1848.0	1895.6	2043.5	2301.1	2322.4	2405.3	2150.2	1694.9
20°	1940.2	1954.2	1931.3	1913.4	1927.9	2021.4	2282.4	2312.2	2486.1	2270.1	1739.1
22.5°	2119.6	2127.3	2098.4	2049.5	2024.0	2067.8	2277.3	2306.7	2554.9	2368.3	1764.6
25°	2319.0	2316.4	2284.6	2229.7	2176.2	2161.3	2310.9	2337.3	2611.9	2456.7	1772.3
27.5°	2518.4	2526.0	2472.5	2404.4	2340.3	2301.6	2386.2	2405.7	2676.1	2557.5	1781.7
30°	2750.1	2737.7	2685.0	2607.2	2533.7	2479.7	2507.3	2512.9	2764.5	2691.0	1806.3
32.5°	3051.5	3017.5	2958.4	2822.3	2769.6	2678.2	2685.0	2691.8	2872.1	2823.2	1836.1
35°	3460.4	3458.7	3343.1	3159.9	3031.5	2918.0	2888.2	2893.8	3034.9	3019.6	1902.0
37.5°	3952.7	3959.5	3827.7	3643.2	3406.9	3226.6	3165.4	3166.3	3282.3	3290.8	2002.3
40°	4353.6	4371.4	4292.8	4168.2	3934.9	3653.0	3550.1	3540.8	3630.1	3619.4	2145.6
42.5°	4526.2	4542.8	4572.1	4615.5	4487.1	4254.5	4011.8	4024.6	4051.8	3977.4	2306.2
45°	4441.6	4468.0	4583.2	4851.0	4971.7	4893.5	4604.0	4559.3	4444.1	4366.3	2467.8
47.5°	4089.2	4153.4	4345.9	4791.9	5214.5	5478.9	5272.3	5213.2	4836.9	4650.3	2570.7
50°	3509.7	3513.6	3781.8	4351.9	5088.6	5848.3	5954.6	5910.4	5203.0	4809.7	2622.5
52.5°	2544.3	2628.1	2873.8	3534.0	4543.6	5792.2	6389.5	6371.2	5580.5	4891.4	2697.3
54°	1934.3	1950.4	2168.9	2824.0	3917.4	5484.0	6416.2	6420.5	5767.9	4940.7	2741.6
55°	1585.7	1547.0	1776.6	2405.7	3490.2	5211.5	6328.7	6349.1	5852.1	4966.2	2774.3
57.5°	751.6	752.0	927.6	1269.0	2185.9	4046.7	5793.5	5865.7	5861.5	5010.0	2875.0
60°	380.5	383.0	421.7	585.8	1079.8	2690.1	4790.2	4962.4	5410.4	5016.3	2908.2
62.5°	266.1	263.1	256.8	281.9	454.4	1367.2	3566.3	3715.9	4596.8	4773.6	2802.8
65°	227.9	221.5	203.6	199.8	229.6	544.6	2221.2	2465.2	3509.7	4133.4	2502.6
67.5°	194.7	192.2	176.0	166.2	162.4	237.2	1146.1	1274.5	2398.9	2971.1	1895.6
70°	165.4	164.1	154.3	142.0	131.4	142.0	425.1	526.7	1337.0	1599.7	894.4
72.5°	134.3	135.6	137.3	121.6	110.5	100.8	181.5	211.3	559.5	571.8	312.9
75°	117.8	116.5	116.5	105.9	92.2	74.8	99.9	107.6	171.3	159.0	72.7
77.5°	82.9	79.9	93.5	87.1	76.9	53.1	57.0	60.4	71.0	60.8	34.0
80°	57.4	57.4	59.9	78.2	69.3	38.7	34.9	37.4	42.1	36.1	19.6
82.5°	32.3	33.2	39.1	41.7	40.4	25.9	23.0	23.4	28.1	24.7	12.3
85°	3.8	6.4	22.5	22.1	16.6	11.5	12.8	13.2	17.4	15.3	7.2
87.5°	0.4	0.9	4.7	6.0	4.3	4.7	4.7	4.7	6.0	6.8	5.1
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°	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9
2.5°	1405.4	1373.1	1296.2	1206.9	1149.9	1057.3	979.0	922.5	908.5	881.3	889.3
5°	1403.7	1336.6	1179.7	1013.9	837.0	705.3	607.1	529.7	495.7	473.2	457.4
7.5°	1404.6	1299.6	1047.9	783.9	572.6	443.4	352.4	305.2	273.8	260.6	262.3
10°	1407.1	1257.9	894.9	580.7	386.4	286.5	230.8	208.3	197.7	196.0	195.6
12.5°	1413.1	1212.4	748.6	431.1	270.4	208.3	187.1	179.4	176.0	176.0	174.7
15°	1419.5	1162.3	627.0	320.5	208.3	179.0	169.2	165.4	163.2	163.2	162.8
17.5°	1419.5	1104.4	513.5	248.7	179.4	164.5	156.9	151.8	150.1	150.1	149.6
20°	1410.5	1037.3	412.8	200.2	162.8	150.9	143.3	137.7	135.6	134.8	134.3
22.5°	1379.5	947.6	328.6	172.2	149.2	139.0	129.2	122.9	121.2	120.3	120.7
25°	1324.2	846.4	260.2	151.3	136.9	124.6	116.1	111.4	109.7	109.7	110.1
27.5°	1267.3	740.5	206.2	135.6	122.0	111.0	104.2	101.2	100.8	102.0	102.5
30°	1214.6	634.3	167.1	122.9	108.8	99.5	94.8	94.0	94.0	94.4	94.8
32.5°	1155.9	541.2	139.9	111.8	98.2	90.1	87.6	87.6	88.4	88.4	89.3
35°	1118.9	461.2	122.9	101.2	90.1	83.3	81.6	82.0	83.3	85.0	85.9
37.5°	1098.9	397.5	111.8	92.7	82.5	77.8	76.1	76.9	79.9	82.9	83.3
40°	1100.6	349.4	102.9	85.4	76.5	71.4	70.1	72.7	75.7	78.6	79.1
42.5°	1119.3	313.7	94.4	76.9	71.4	64.2	63.8	66.3	67.6	70.6	71.0
45°	1141.4	287.8	85.4	68.0	62.1	55.7	56.1	58.2	59.9	64.6	65.5
47.5°	1148.2	269.9	75.2	57.8	51.0	48.9	49.3	50.6	54.0	58.2	58.7
50°	1155.9	258.9	65.5	48.9	43.4	42.9	43.4	44.2	46.3	48.0	47.6
52.5°	1188.6	258.5	57.4	42.5	37.0	37.8	38.3	37.8	36.1	33.6	32.7
54°	1219.2	259.7	53.6	39.5	34.0	35.3	34.9	32.7	28.5	25.9	24.7
55°	1243.9	261.0	51.4	37.4	32.3	32.7	33.2	28.9	23.4	20.8	20.0
57.5°	1292.3	258.0	46.3	32.7	28.5	26.8	26.4	19.1	12.8	11.1	10.2
60°	1268.1	233.0	42.1	28.1	24.2	21.7	17.9	10.6	6.4	4.7	4.7
62.5°	1172.9	197.7	37.4	23.0	20.0	16.6	9.4	6.0	3.0	1.7	1.3
65°	1049.2	166.2	33.6	18.3	15.7	10.6	5.1	3.8	1.3	0.0	0.0
67.5°	780.1	123.3	28.5	14.5	11.9	6.8	3.4	2.1	0.4	0.0	0.0
70°	361.3	75.2	24.2	11.1	8.5	5.1	2.6	1.3	0.0	0.0	0.0
72.5°	103.7	47.2	20.0	8.1	6.0	4.3	2.1	0.9	0.4	0.0	0.0
75°	36.1	37.8	14.9	6.0	4.7	3.0	1.7	0.9	0.4	0.0	0.0
77.5°	21.7	30.6	9.4	5.1	3.8	2.6	1.7	0.9	0.4	0.4	0.0
80°	12.3	20.4	6.0	4.3	3.4	2.1	1.3	0.9	0.4	0.4	0.0
82.5°	6.8	9.8	4.7	3.8	3.0	2.1	1.3	0.9	0.4	0.4	0.4
85°	5.5	5.1	3.8	3.4	2.6	1.7	1.3	0.4	0.0	0.0	0.0
87.5°	4.3	3.4	3.4	3.4	2.6	1.7	1.3	0.4	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)