

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: P452301

Luminaire Tested: **GALN-SA3B-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11122 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

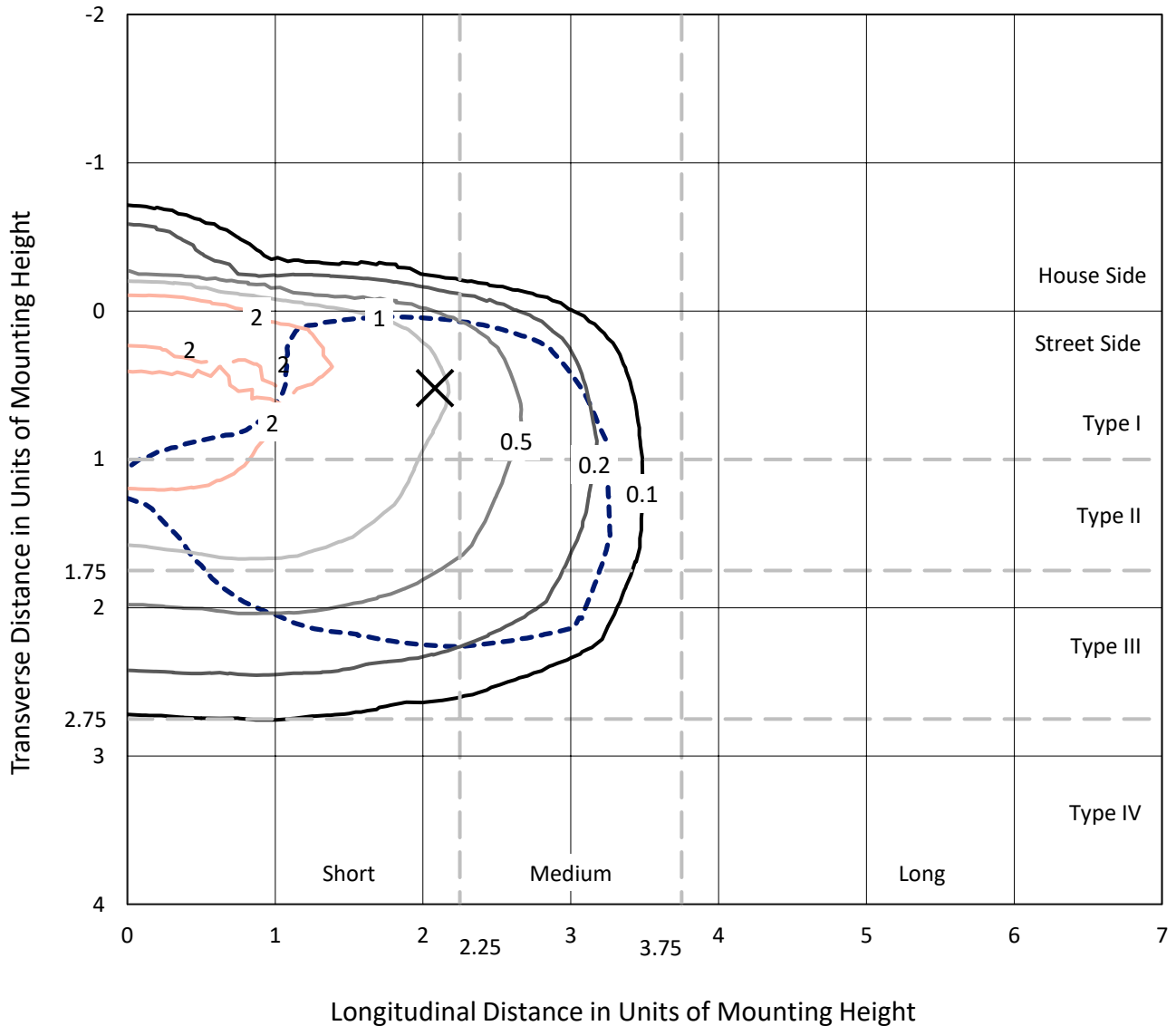
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

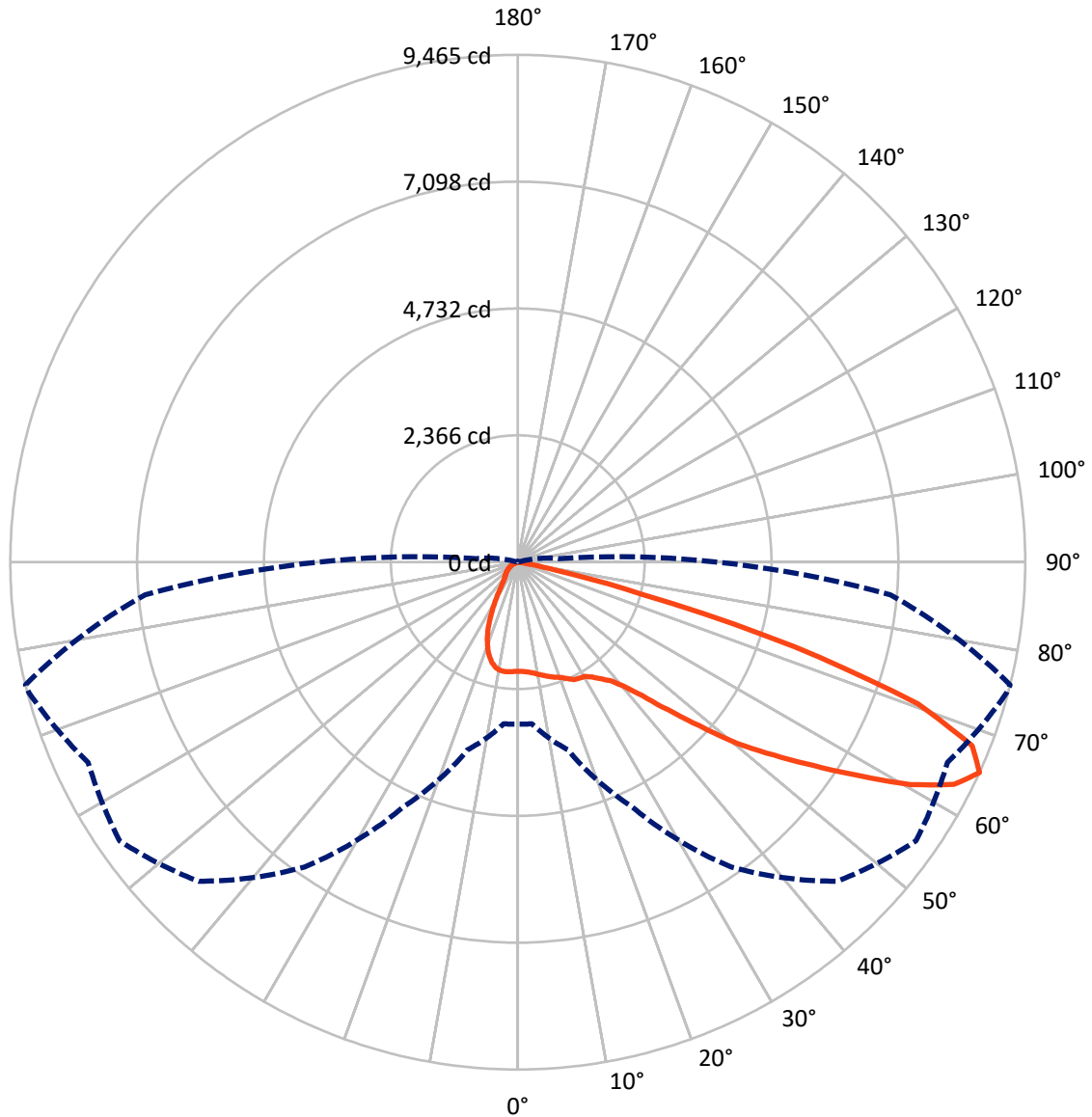
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.2	0.0	803.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10318.8	0.0	10318.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	11122.0	0.0	11122.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	1.5
10°-20°	373.2	3.4
20°-30°	601.3	5.4
30°-40°	1045.6	9.4
40°-50°	1727.8	15.5
50°-60°	2669.0	24.0
60°-70°	3259.3	29.3
70°-80°	1237.0	11.1
80°-90°	41.3	0.4
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°	11122.0	100.0
0°-180°	11122.0	100.0



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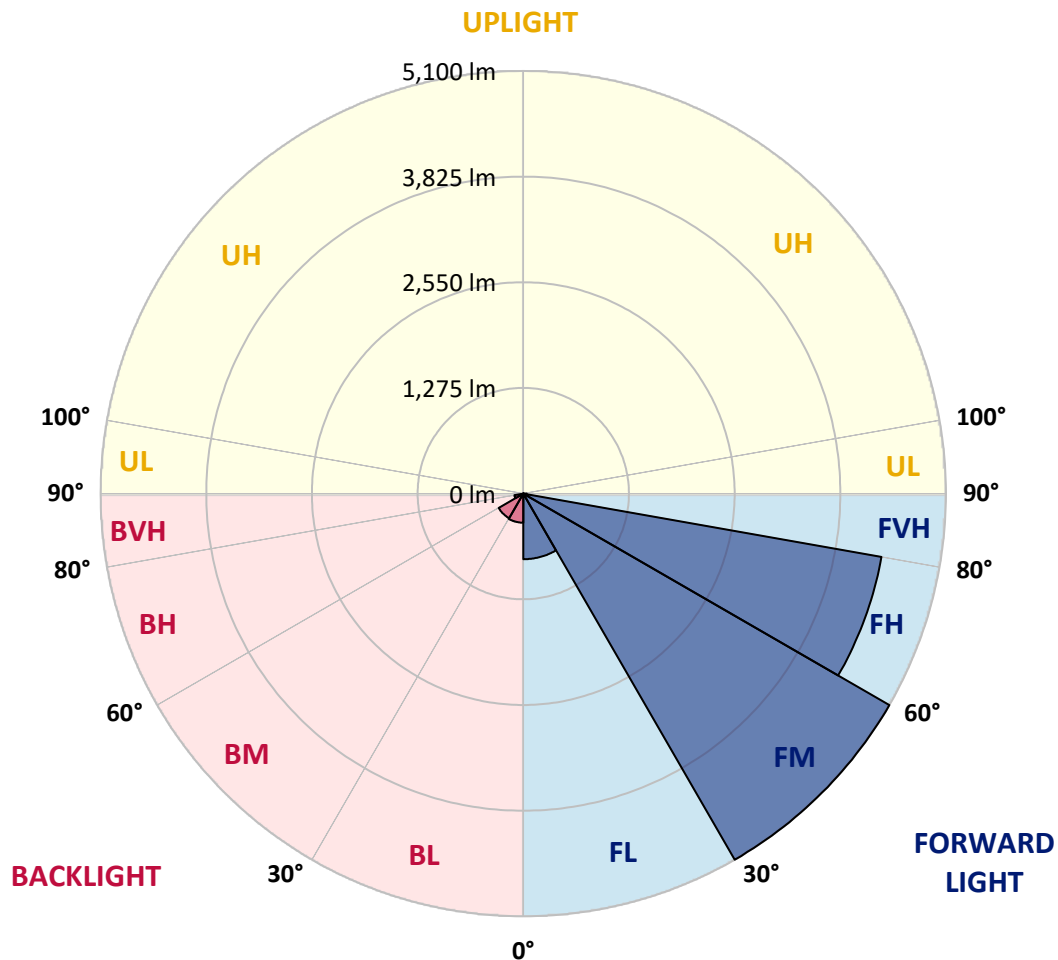
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	791.2	7.1			
FM (30°-60°)	5099.6	45.9			
FH (60°-80°)	4387.3	39.4			G2/5000
FVH (80°-90°)	40.7	0.4			G1/100
BL (0°-30°)	350.9	3.2	B1/500		
BM (30°-60°)	342.8	3.1	B1/1000		
BH (60°-80°)	109.0	1.0	B0/110		G0/110
BVH (80°-90°)	0.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6
2.5°	1944.3	1945.1	1949.8	1961.5	1979.6	1994.5	2007.1	2027.5	2041.6	2043.2	2047.9
5°	1810.0	1800.6	1810.0	1840.6	1868.1	1909.7	1960.8	2011.8	2057.3	2060.5	2082.5
7.5°	1659.2	1667.1	1682.0	1713.4	1765.2	1828.8	1902.6	1993.7	2080.1	2088.0	2131.2
10°	1506.1	1523.4	1547.7	1595.6	1667.9	1750.3	1850.8	1981.2	2116.2	2127.2	2201.8
12.5°	1364.8	1372.6	1402.4	1466.8	1556.4	1672.6	1811.6	1974.1	2156.3	2169.6	2277.2
15°	1256.4	1266.6	1292.5	1350.6	1450.3	1599.5	1779.4	1971.7	2195.5	2214.4	2352.6
17.5°	1236.0	1242.3	1253.3	1292.5	1379.7	1541.4	1750.3	1971.0	2233.2	2256.0	2422.5
20°	1320.0	1314.5	1303.5	1299.6	1347.5	1496.7	1729.1	1977.2	2269.4	2295.3	2496.3
22.5°	1530.4	1537.5	1473.1	1397.0	1381.2	1489.6	1726.0	2007.1	2326.7	2357.3	2578.7
25°	1977.2	1923.1	1822.6	1640.4	1503.0	1532.8	1761.3	2077.8	2393.4	2427.2	2653.3
27.5°	2471.2	2454.7	2298.4	1998.4	1742.5	1623.9	1824.1	2131.9	2415.4	2450.0	2695.7
30°	2956.4	2976.1	2797.0	2465.7	2090.3	1792.7	1883.0	2152.4	2435.0	2471.2	2749.9
32.5°	3406.4	3429.9	3272.9	2944.7	2500.2	2084.8	1984.3	2231.7	2517.5	2554.4	2840.2
35°	3760.5	3763.7	3645.1	3383.6	2947.8	2439.8	2203.4	2370.7	2629.0	2672.2	2936.0
37.5°	4085.6	4080.9	3941.9	3716.6	3320.8	2792.3	2479.0	2530.8	2756.2	2801.0	3074.2
40°	4326.7	4329.8	4285.1	4073.1	3668.7	3118.2	2697.3	2680.8	2969.8	3039.7	3275.3
42.5°	4487.7	4516.7	4538.7	4431.1	4106.0	3519.5	3032.6	3002.0	3340.4	3398.5	3559.5
45°	4618.0	4669.8	4779.8	4774.3	4526.1	4011.8	3492.8	3429.9	3865.8	3927.8	3921.5
47.5°	4713.0	4765.6	4947.8	5057.8	4921.1	4489.2	4071.5	4017.3	4493.2	4560.7	4321.2
50°	4761.7	4824.5	5057.0	5269.8	5229.7	4949.4	4731.1	4734.2	5250.9	5316.1	4784.5
52.5°	4647.9	4729.5	5115.1	5498.3	5576.0	5389.9	5349.1	5452.7	5925.5	5981.2	5203.0
55°	4284.3	4387.2	5035.8	5693.0	5977.3	5909.8	6051.1	6208.9	6662.8	6698.9	5632.6
57.5°	4054.2	4163.4	4801.8	5858.7	6459.4	6563.1	6786.9	6902.3	7423.7	7515.6	6125.7
60°	3860.3	3945.9	4609.4	5894.0	6949.4	7362.5	7580.0	7699.3	8362.9	8422.5	6668.3
62.5°	3537.5	3635.7	4284.3	5647.5	7196.0	8002.4	8453.2	8399.8	9089.2	9130.8	7001.2
65°	3018.5	3027.1	3624.7	5027.9	6941.6	8417.8	9066.4	8842.6	9436.3	9464.6	6975.3
67.5°	2252.9	2336.1	2788.4	3952.1	5863.4	8062.9	9265.1	8854.4	9217.2	9138.7	6421.7
70°	1451.1	1514.7	1890.1	2740.5	4227.8	6728.8	8606.3	8247.4	8089.6	7915.3	5256.4
72.5°	669.8	751.5	1122.9	1565.8	2507.3	4793.1	6986.3	6700.5	5822.6	5392.3	3341.2
75°	292.1	312.5	554.4	826.1	1175.5	2534.8	4606.2	4159.4	2629.8	2402.1	1337.3
77.5°	178.3	191.6	290.5	442.9	461.7	965.9	2481.4	1814.7	812.7	716.9	362.8
80°	120.9	135.8	211.2	231.6	157.8	269.3	931.3	484.5	164.1	157.0	77.7
82.5°	58.9	74.6	156.3	129.6	68.3	86.4	270.9	103.7	47.9	44.8	27.5
85°	8.6	14.9	87.9	84.8	30.6	20.4	47.9	25.9	16.5	15.7	12.6
87.5°	0.0	0.0	29.8	13.3	3.1	3.1	5.5	5.5	6.3	5.5	6.3
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°	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6	2034.6
2.5°	2050.3	2054.2	2039.3	2018.1	1995.3	1972.5	1940.3	1911.3	1894.0	1904.2	1879.1
5°	2087.2	2084.0	2044.8	1980.4	1894.8	1791.9	1689.8	1602.7	1574.4	1532.0	1527.3
7.5°	2138.2	2129.6	2046.3	1898.7	1705.6	1512.4	1323.9	1199.1	1127.6	1067.1	1068.7
10°	2209.7	2184.6	2028.3	1755.0	1437.0	1145.7	905.4	740.5	669.0	646.3	628.2
12.5°	2283.5	2234.8	1978.0	1561.1	1119.0	782.9	550.5	449.9	406.0	391.8	390.3
15°	2349.5	2272.5	1890.1	1327.8	813.5	500.2	375.3	342.4	336.9	337.7	336.9
17.5°	2414.6	2302.3	1768.4	1080.5	552.8	358.9	322.7	314.9	317.2	320.4	319.6
20°	2468.8	2308.6	1612.9	824.5	391.1	314.9	303.1	301.5	303.9	306.2	306.2
22.5°	2527.7	2313.3	1428.4	570.9	319.6	292.9	286.6	286.6	289.8	292.9	293.7
25°	2571.7	2287.4	1207.7	409.9	281.9	271.7	268.6	269.3	272.5	274.1	273.3
27.5°	2578.7	2214.4	973.7	314.1	256.0	245.8	242.6	245.8	241.9	244.2	242.6
30°	2585.0	2121.7	736.6	264.6	232.4	216.7	212.0	207.3	204.2	200.2	199.5
32.5°	2604.7	2012.6	537.9	237.9	210.4	193.2	182.2	168.8	158.6	155.5	154.7
35°	2613.3	1881.4	395.0	216.7	190.8	172.0	152.3	133.5	118.6	113.1	117.0
37.5°	2646.3	1754.2	306.2	201.0	173.5	150.0	124.9	101.3	87.2	84.0	85.6
40°	2713.8	1616.0	256.8	187.7	158.6	129.6	98.9	76.2	66.7	63.6	62.8
42.5°	2822.2	1478.6	228.5	175.1	143.7	109.1	77.7	59.7	51.8	49.5	49.5
45°	2954.1	1346.7	208.9	161.8	128.0	87.9	61.2	47.9	43.2	41.6	41.6
47.5°	3127.6	1231.3	192.4	148.4	110.7	69.9	49.5	41.6	38.5	39.3	40.0
50°	3303.5	1145.7	174.3	133.5	91.1	57.3	42.4	36.9	36.1	36.9	36.9
52.5°	3436.2	1095.4	150.0	113.1	71.5	47.9	37.7	34.6	33.8	32.2	32.2
55°	3615.3	1084.4	119.4	91.9	56.5	40.0	33.8	31.4	29.1	27.5	26.7
57.5°	3845.3	1097.0	91.9	71.5	44.0	33.0	29.8	25.9	22.8	19.6	19.6
60°	3988.3	1068.7	71.5	55.0	32.2	26.7	22.8	18.8	14.9	12.6	11.8
62.5°	3942.7	949.4	56.5	40.8	22.8	19.6	14.9	12.6	8.6	6.3	5.5
65°	3707.9	766.4	45.5	28.3	16.5	11.8	7.9	7.9	3.9	0.8	0.0
67.5°	3245.4	567.7	36.1	18.8	9.4	5.5	3.9	2.4	0.0	0.0	0.0
70°	2641.6	409.9	28.3	11.8	5.5	3.9	1.6	0.8	0.0	0.0	0.0
72.5°	1677.3	234.8	22.0	7.1	3.9	1.6	0.0	0.0	0.0	0.0	0.0
75°	648.6	91.9	14.9	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	183.7	43.2	8.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	47.9	18.8	4.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.8	7.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	0.8	0.0	0.0	0.0	0.0	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)