

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: P458768

Luminaire Tested: **GALN-SA3A-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458768
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-SA3A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 9957 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

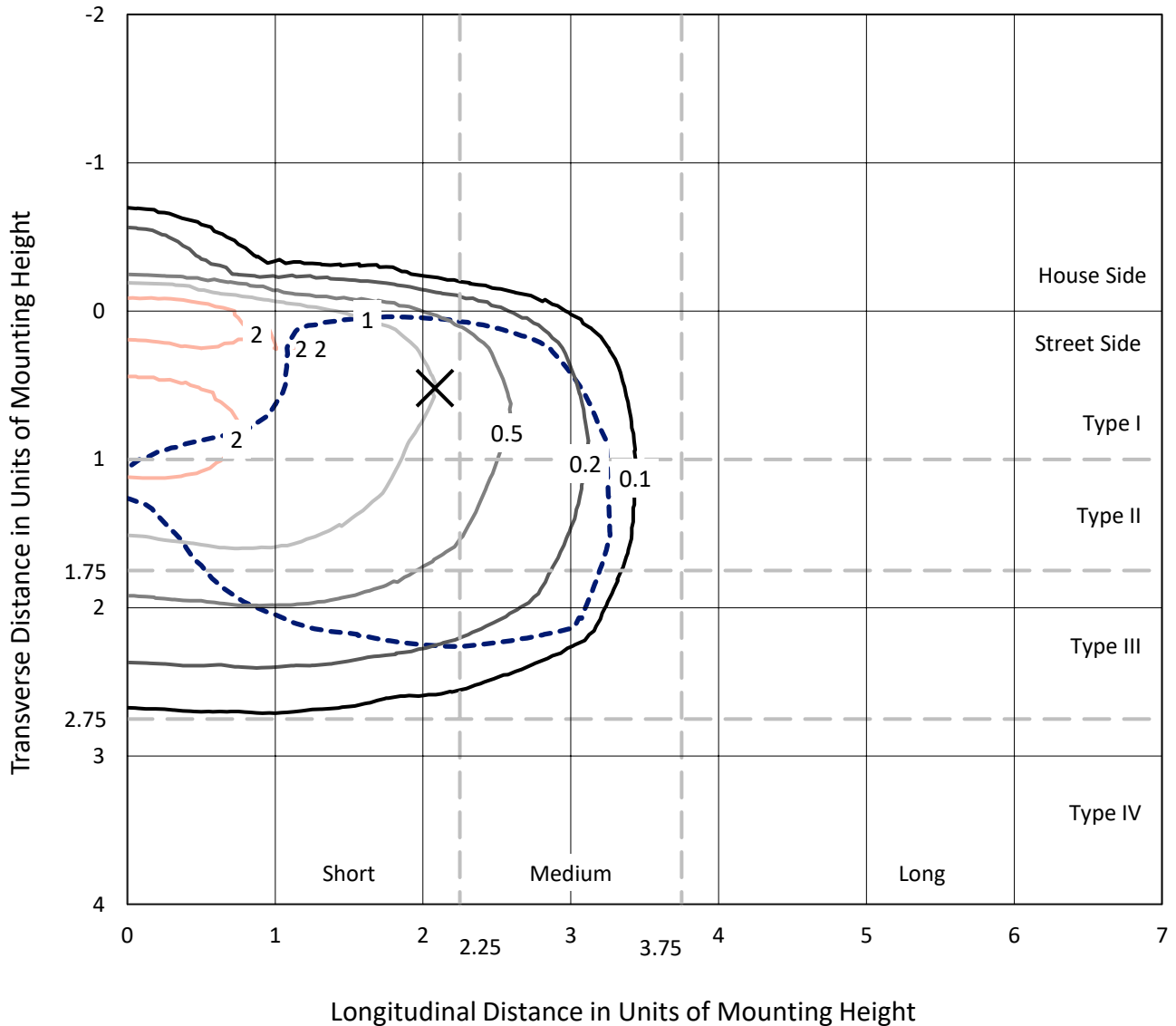
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

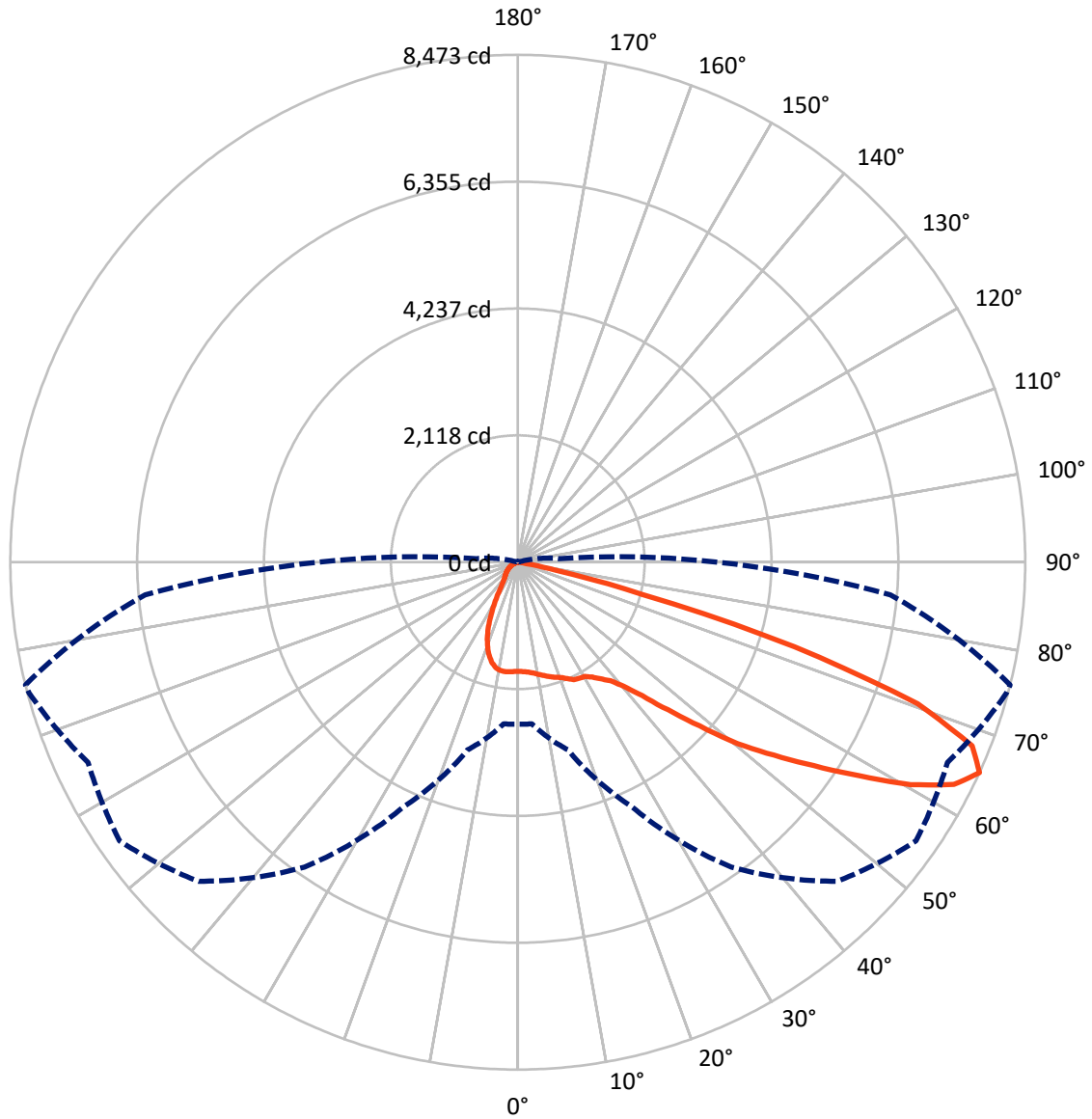
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	719.1	0.0	719.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9237.9	0.0	9237.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	9957.0	0.0	9957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	1.5
10°-20°	334.1	3.4
20°-30°	538.3	5.4
30°-40°	936.1	9.4
40°-50°	1546.8	15.5
50°-60°	2389.5	24.0
60°-70°	2917.9	29.3
70°-80°	1107.4	11.1
80°-90°	37.0	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°	9957.0	100.0
0°-180°	9957.0	100.0

Coefficient of Utilization



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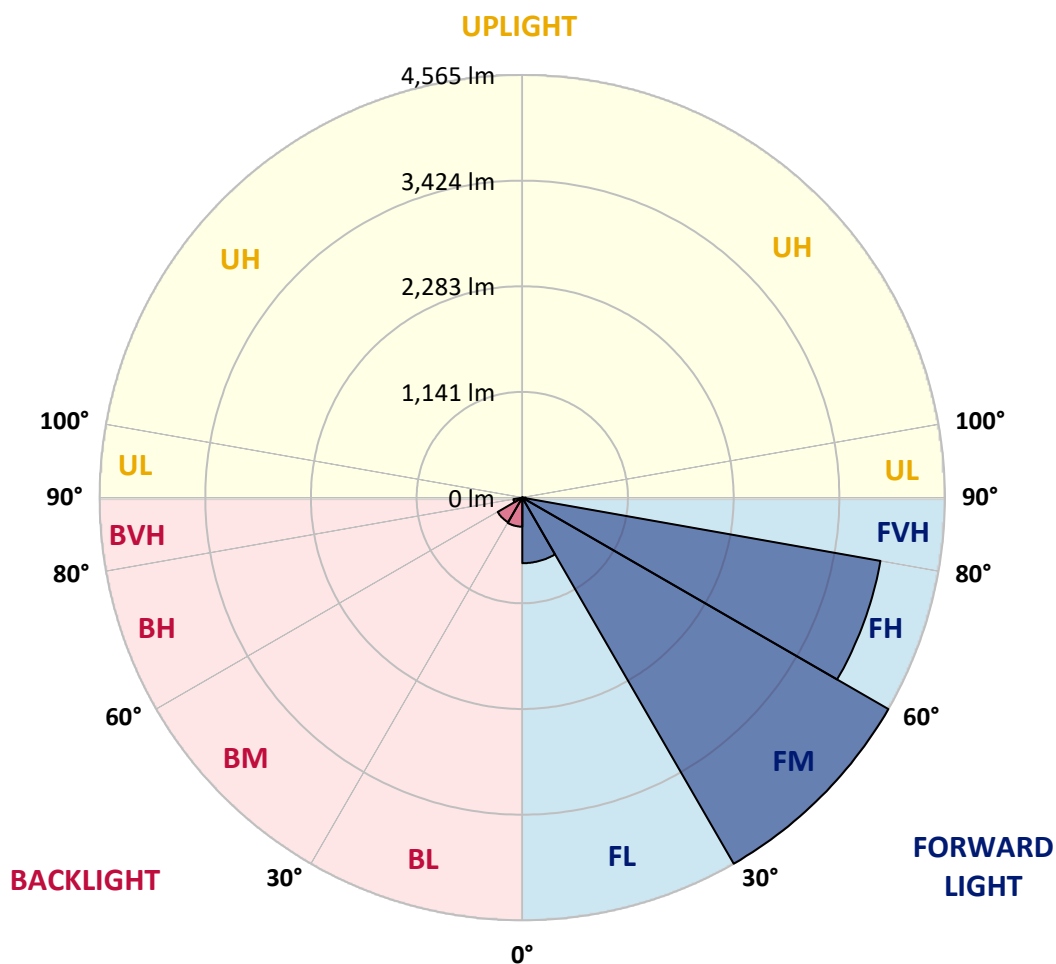
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	708.3	7.1			
FM (30°-60°)	4565.4	45.9			
FH (60°-80°)	3927.7	39.4			G2/5000
FVH (80°-90°)	36.4	0.4			G1/100
BL (0°-30°)	314.2	3.2	B1/500		
BM (30°-60°)	306.9	3.1	B1/1000		
BH (60°-80°)	97.6	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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°	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5
2.5°	1740.6	1741.3	1745.5	1756.1	1772.2	1785.6	1796.8	1815.1	1827.8	1829.2	1833.4
5°	1620.4	1612.0	1620.4	1647.8	1672.4	1709.7	1755.4	1801.1	1841.8	1844.7	1864.3
7.5°	1485.4	1492.5	1505.8	1533.9	1580.3	1637.3	1703.4	1784.9	1862.2	1869.3	1907.9
10°	1348.3	1363.8	1385.6	1428.5	1493.2	1567.0	1657.0	1773.6	1894.6	1904.4	1971.2
12.5°	1221.8	1228.8	1255.5	1313.2	1393.3	1497.4	1621.8	1767.3	1930.4	1942.4	2038.7
15°	1124.8	1133.9	1157.1	1209.1	1298.4	1432.0	1593.0	1765.2	1965.6	1982.4	2106.2
17.5°	1106.5	1112.1	1122.0	1157.1	1235.2	1380.0	1567.0	1764.5	1999.3	2019.7	2168.7
20°	1181.7	1176.8	1167.0	1163.5	1206.3	1339.9	1548.0	1770.1	2031.6	2054.8	2234.8
22.5°	1370.1	1376.5	1318.8	1250.6	1236.6	1333.6	1545.2	1796.8	2083.0	2110.4	2308.6
25°	1770.1	1721.6	1631.6	1468.6	1345.5	1372.2	1576.8	1860.1	2142.7	2172.9	2375.4
27.5°	2212.3	2197.6	2057.7	1789.1	1559.9	1453.8	1633.1	1908.6	2162.4	2193.3	2413.4
30°	2646.8	2664.3	2504.1	2207.4	1871.4	1604.9	1685.8	1926.9	2180.0	2212.3	2461.9
32.5°	3049.6	3070.7	2930.1	2636.2	2238.3	1866.4	1776.5	1997.9	2253.8	2286.8	2542.7
35°	3366.6	3369.4	3263.3	3029.2	2639.0	2184.2	1972.6	2122.3	2353.6	2392.3	2628.5
37.5°	3657.7	3653.5	3529.0	3327.3	2973.0	2499.8	2219.3	2265.7	2467.5	2507.6	2752.2
40°	3873.5	3876.3	3836.2	3646.4	3284.4	2791.6	2414.8	2400.0	2658.7	2721.3	2932.2
42.5°	4017.6	4043.6	4063.3	3967.0	3675.9	3150.8	2715.0	2687.5	2990.5	3042.6	3186.7
45°	4134.3	4180.7	4279.1	4274.2	4052.0	3591.6	3126.9	3070.7	3460.8	3516.4	3510.7
47.5°	4219.4	4266.5	4429.6	4528.0	4405.7	4019.0	3645.0	3596.5	4022.5	4083.0	3868.6
50°	4262.9	4319.2	4527.3	4717.8	4681.9	4431.0	4235.5	4238.3	4700.9	4759.3	4283.3
52.5°	4161.0	4234.1	4579.3	4922.4	4991.9	4825.3	4788.8	4881.6	5304.8	5354.7	4658.0
55°	3835.5	3927.6	4508.3	5096.7	5351.2	5290.7	5417.3	5558.6	5964.9	5997.2	5042.6
57.5°	3629.5	3727.3	4298.8	5245.0	5782.8	5875.6	6076.0	6179.3	6646.1	6728.3	5484.0
60°	3455.9	3532.5	4126.6	5276.7	6221.5	6591.3	6786.0	6892.8	7486.9	7540.3	5969.8
62.5°	3167.0	3254.9	3835.5	5055.9	6442.2	7164.2	7567.7	7519.9	8137.1	8174.4	6267.9
65°	2702.3	2710.0	3245.0	4501.3	6214.5	7536.1	8116.7	7916.4	8447.9	8473.2	6244.7
67.5°	2016.9	2091.4	2496.3	3538.2	5249.2	7218.3	8294.6	7926.9	8251.7	8181.4	5749.1
70°	1299.1	1356.1	1692.1	2453.4	3784.9	6023.9	7704.8	7383.5	7242.2	7086.2	4705.8
72.5°	599.7	672.8	1005.3	1401.8	2244.7	4291.1	6254.5	5998.6	5212.7	4827.4	2991.2
75°	261.5	279.8	496.3	739.5	1052.4	2269.3	4123.8	3723.8	2354.3	2150.5	1197.2
77.5°	159.6	171.5	260.1	396.5	413.4	864.7	2221.5	1624.6	727.6	641.8	324.8
80°	108.3	121.6	189.1	207.4	141.3	241.1	833.7	433.7	146.9	140.6	69.6
82.5°	52.7	66.8	139.9	116.0	61.2	77.3	242.5	92.8	42.9	40.1	24.6
85°	7.7	13.4	78.7	75.9	27.4	18.3	42.9	23.2	14.8	14.1	11.2
87.5°	0.0	0.0	26.7	12.0	2.8	2.8	4.9	4.9	5.6	4.9	5.6
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°	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5	1821.5
2.5°	1835.5	1839.0	1825.7	1806.7	1786.3	1765.9	1737.1	1711.1	1695.6	1704.8	1682.3
5°	1868.6	1865.7	1830.6	1772.9	1696.3	1604.2	1512.8	1434.8	1409.5	1371.5	1367.3
7.5°	1914.2	1906.5	1832.0	1699.8	1526.9	1354.0	1185.2	1073.5	1009.5	955.4	956.8
10°	1978.2	1955.7	1815.8	1571.2	1286.5	1025.7	810.6	662.9	598.9	578.6	562.4
12.5°	2044.3	2000.7	1770.8	1397.5	1001.8	700.9	492.8	402.8	363.4	350.8	349.4
15°	2103.4	2034.5	1692.1	1188.8	728.3	447.8	336.0	306.5	301.6	302.3	301.6
17.5°	2161.7	2061.2	1583.1	967.3	494.9	321.3	288.9	281.9	284.0	286.8	286.1
20°	2210.2	2066.8	1443.9	738.1	350.1	281.9	271.4	269.9	272.1	274.2	274.2
22.5°	2262.9	2071.0	1278.7	511.1	286.1	262.2	256.6	256.6	259.4	262.2	262.9
25°	2302.3	2047.8	1081.2	367.0	252.4	243.2	240.4	241.1	243.9	245.3	244.6
27.5°	2308.6	1982.4	871.7	281.2	229.2	220.0	217.2	220.0	216.5	218.6	217.2
30°	2314.3	1899.5	659.4	236.9	208.1	194.0	189.8	185.6	182.8	179.3	178.6
32.5°	2331.8	1801.8	481.5	213.0	188.4	172.9	163.1	151.1	142.0	139.2	138.5
35°	2339.6	1684.4	353.6	194.0	170.8	154.0	136.4	119.5	106.2	101.2	104.7
37.5°	2369.1	1570.5	274.2	180.0	155.4	134.3	111.8	90.7	78.0	75.2	76.6
40°	2429.5	1446.8	229.9	168.0	142.0	116.0	88.6	68.2	59.8	56.9	56.2
42.5°	2526.6	1323.7	204.6	156.8	128.6	97.7	69.6	53.4	46.4	44.3	44.3
45°	2644.7	1205.6	187.0	144.8	114.6	78.7	54.8	42.9	38.7	37.3	37.3
47.5°	2800.0	1102.3	172.2	132.9	99.1	62.6	44.3	37.3	34.4	35.1	35.9
50°	2957.5	1025.7	156.1	119.5	81.5	51.3	38.0	33.0	32.3	33.0	33.0
52.5°	3076.3	980.7	134.3	101.2	64.0	42.9	33.7	30.9	30.2	28.8	28.8
55°	3236.6	970.8	106.9	82.3	50.6	35.9	30.2	28.1	26.0	24.6	23.9
57.5°	3442.6	982.1	82.3	64.0	39.4	29.5	26.7	23.2	20.4	17.6	17.6
60°	3570.5	956.8	64.0	49.2	28.8	23.9	20.4	16.9	13.4	11.2	10.5
62.5°	3529.7	849.9	50.6	36.6	20.4	17.6	13.4	11.2	7.7	5.6	4.9
65°	3319.5	686.1	40.8	25.3	14.8	10.5	7.0	7.0	3.5	0.7	0.0
67.5°	2905.5	508.3	32.3	16.9	8.4	4.9	3.5	2.1	0.0	0.0	0.0
70°	2364.9	367.0	25.3	10.5	4.9	3.5	1.4	0.7	0.0	0.0	0.0
72.5°	1501.6	210.2	19.7	6.3	3.5	1.4	0.0	0.0	0.0	0.0	0.0
75°	580.7	82.3	13.4	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	164.5	38.7	7.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	42.9	16.9	4.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.4	7.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.0	2.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	0.7	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)