

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: P453053

Luminaire Tested: **GALN-SA4A-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13282 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

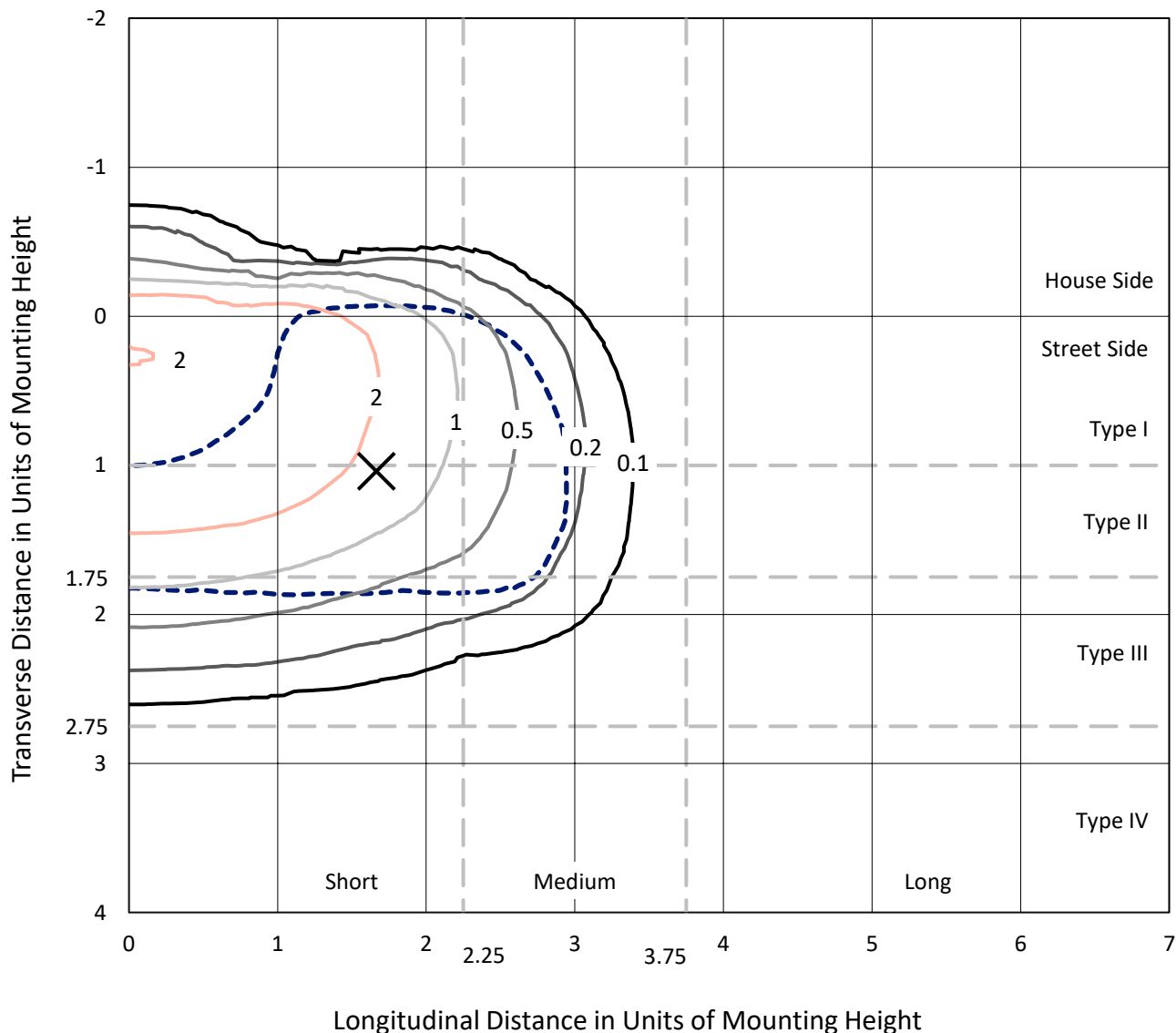
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

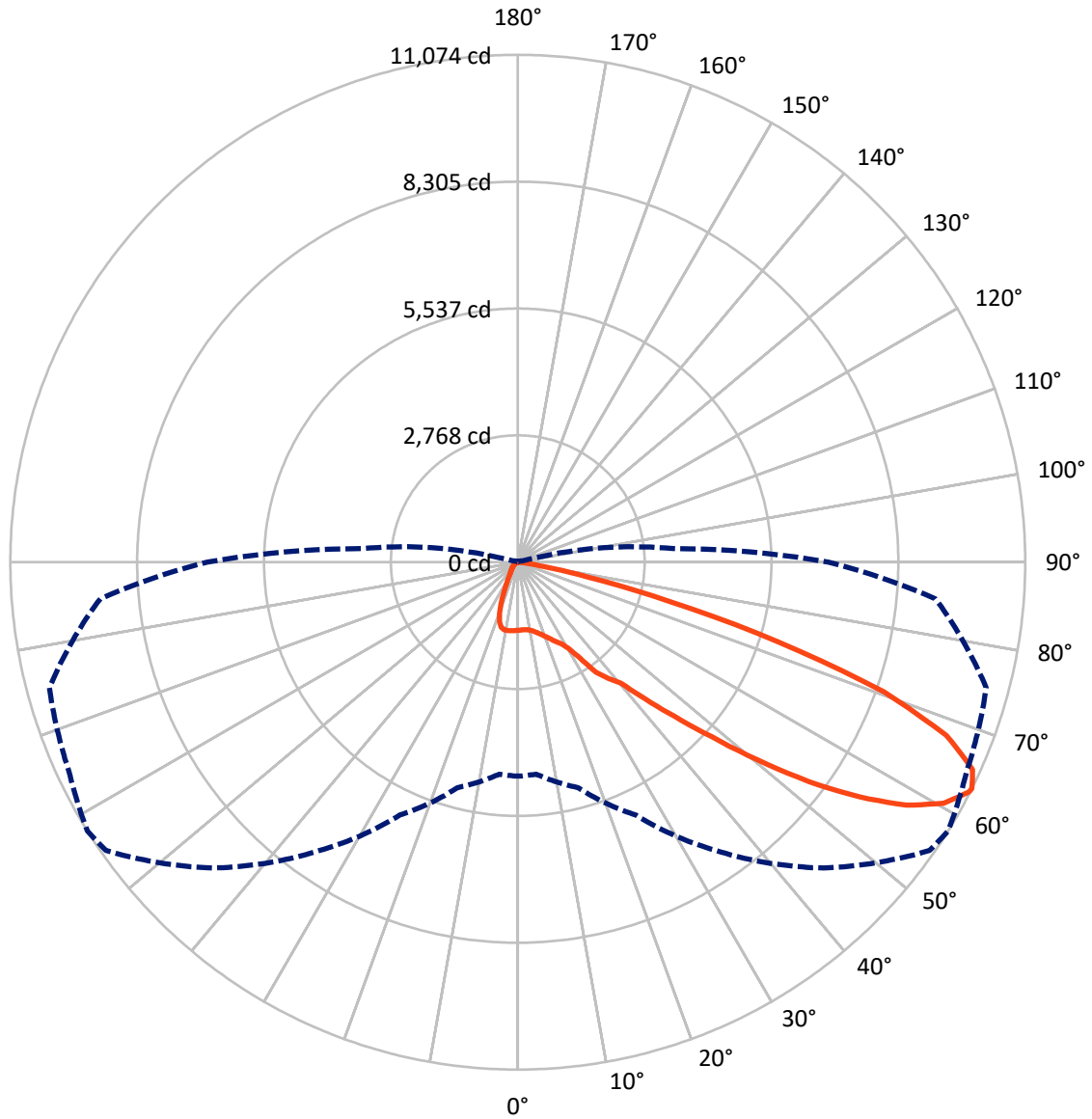
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1375.3	0.0	1375.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11906.7	0.0	11906.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	13282.0	0.0	13282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	1.0
10°-20°	379.1	2.9
20°-30°	658.0	5.0
30°-40°	1209.1	9.1
40°-50°	2276.2	17.1
50°-60°	3893.3	29.3
60°-70°	3727.8	28.1
70°-80°	950.6	7.2
80°-90°	48.6	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°	13282.0	100.0
0°-180°	13282.0	100.0

Coefficient of Utilization



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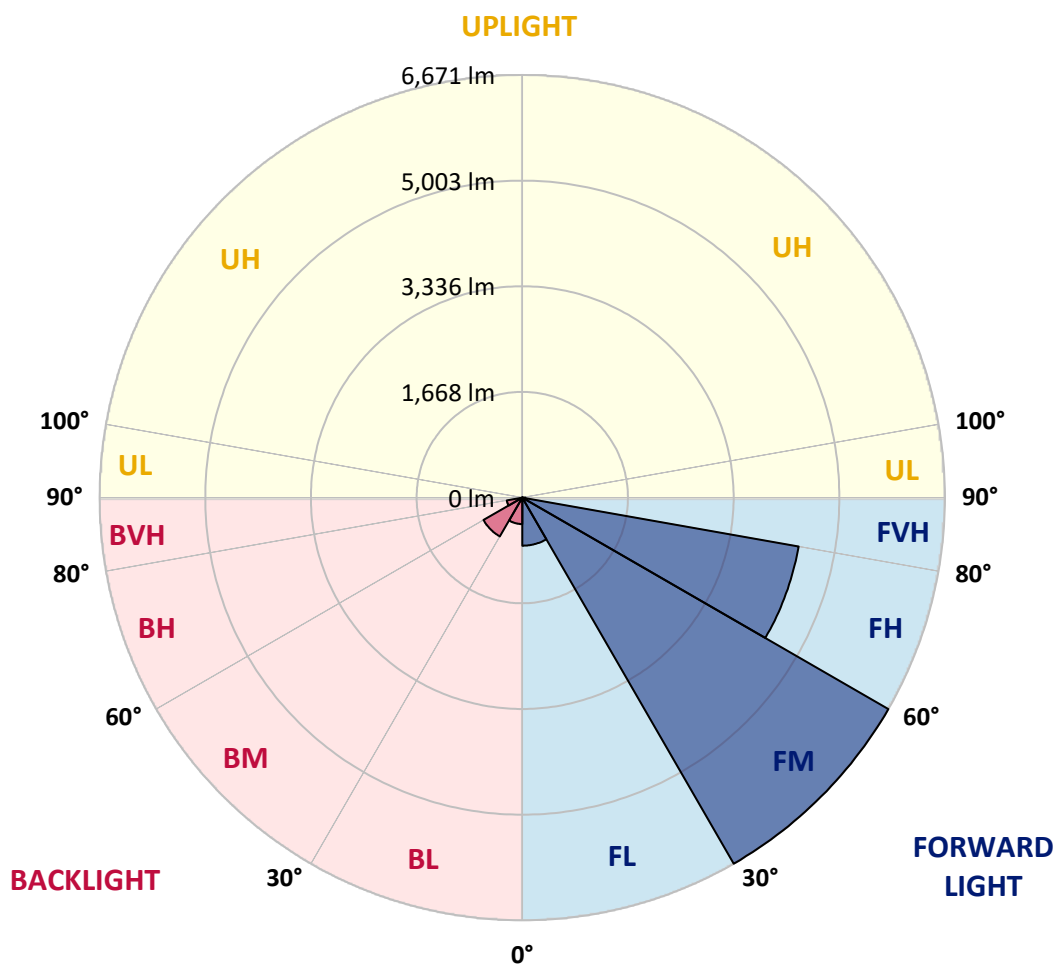
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	759.3	5.7			
FM	(30°-60°)	6671.3	50.2			
FH	(60°-80°)	4429.5	33.3			G2/5000
FVH	(80°-90°)	46.7	0.4			G1/100
BL	(0°-30°)	417.1	3.1	B1/500		
BM	(30°-60°)	707.4	5.3	B1/1000		
BH	(60°-80°)	248.9	1.9	B1/500		G1/500
BVH	(80°-90°)	1.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0
2.5°	1450.0	1455.0	1460.0	1462.0	1469.0	1476.0	1481.0	1480.0	1488.0	1492.0	1492.0
5°	1392.0	1392.0	1405.0	1417.0	1437.0	1457.0	1476.0	1480.0	1495.0	1509.0	1514.0
7.5°	1343.0	1346.0	1356.0	1378.0	1405.0	1440.0	1478.0	1487.0	1513.0	1544.0	1557.0
10°	1320.0	1322.0	1335.0	1358.0	1392.0	1440.0	1493.0	1510.0	1550.0	1599.0	1617.0
12.5°	1315.0	1318.0	1331.0	1357.0	1396.0	1454.0	1526.0	1544.0	1602.0	1665.0	1692.0
15°	1324.0	1326.0	1339.0	1367.0	1410.0	1479.0	1570.0	1595.0	1664.0	1737.0	1772.0
17.5°	1356.0	1354.0	1363.0	1386.0	1434.0	1510.0	1623.0	1653.0	1734.0	1834.0	1857.0
20°	1492.0	1479.0	1471.0	1451.0	1470.0	1554.0	1687.0	1731.0	1831.0	1933.0	1949.0
22.5°	1785.0	1756.0	1699.0	1621.0	1561.0	1614.0	1764.0	1815.0	1944.0	2044.0	2044.0
25°	2158.0	2121.0	2064.0	1894.0	1747.0	1713.0	1851.0	1915.0	2067.0	2168.0	2135.0
27.5°	2624.9	2595.9	2485.0	2287.0	2062.0	1886.0	1952.0	2011.0	2176.0	2298.0	2229.0
30°	3004.9	2990.9	2899.9	2722.9	2475.0	2218.0	2140.0	2179.0	2321.0	2462.0	2391.0
32.5°	3325.9	3325.9	3232.9	3067.9	2835.9	2607.9	2459.0	2487.0	2622.9	2785.9	2653.9
35°	3678.9	3666.9	3591.9	3434.9	3174.9	2973.9	2912.9	2950.9	3073.9	3194.9	2869.9
37.5°	4049.9	4045.9	3967.9	3815.9	3603.9	3350.9	3207.9	3217.9	3280.9	3354.9	3122.9
40°	4452.9	4458.9	4356.9	4262.9	4062.9	3803.9	3529.9	3466.9	3525.9	3734.9	3589.9
42.5°	4928.9	4914.9	4870.9	4742.9	4581.9	4426.9	4097.9	4074.9	4126.9	4350.9	4193.9
45°	5481.9	5501.9	5425.9	5354.9	5246.9	5117.9	4842.9	4802.9	4859.9	5207.9	4984.9
47.5°	6035.9	6016.9	6065.9	6052.9	6110.9	6014.9	5771.9	5689.9	5826.9	6156.9	5828.9
50°	6457.9	6478.9	6580.9	6729.9	6978.9	7032.9	6799.9	6771.9	6832.9	7044.9	6583.9
52.5°	6731.9	6801.9	6961.9	7344.9	7793.8	8142.8	7965.8	7950.8	7925.8	7982.8	7305.9
55°	6910.9	6981.9	7190.9	7754.9	8527.8	9094.8	9103.8	9039.8	8874.8	8833.8	7980.8
57.5°	6800.9	6814.9	7112.9	7866.8	8934.8	9773.8	10067.8	10003.8	9698.8	9543.8	8576.8
60°	6112.9	6141.9	6556.9	7442.9	8757.8	9995.8	10706.8	10677.8	10343.8	10168.8	9040.8
62.5°	4893.9	4977.9	5404.9	6392.9	7934.8	9621.8	10965.8	11047.8	10787.8	10546.8	9186.8
63°	4669.9	4642.9	5093.9	6086.9	7716.9	9436.8	10969.8	11073.8	10807.8	10582.8	9146.8
65°	3456.9	3537.9	3830.9	4799.9	6421.9	8575.8	10722.8	10906.8	10733.8	10423.8	8703.8
67.5°	1941.0	1937.0	2261.0	3140.9	4494.9	6726.9	9695.8	10084.8	10048.8	9353.8	7214.9
70°	950.0	965.0	1098.0	1628.0	2606.9	4640.9	8056.8	8476.8	8489.8	7346.9	4988.9
72.5°	430.0	437.0	532.0	793.0	1340.0	2471.0	5551.9	5952.9	5878.9	4681.9	2754.9
75°	227.0	242.0	293.0	399.0	646.0	1019.0	3019.9	3407.9	3252.9	2139.0	1014.0
77.5°	168.0	173.0	199.0	254.0	346.0	397.0	1303.0	1550.0	1452.0	774.0	336.0
80°	123.0	127.0	148.0	180.0	218.0	202.0	491.0	563.0	505.0	263.0	103.0
82.5°	75.0	76.0	108.0	134.0	137.0	113.0	162.0	174.0	182.0	148.0	56.0
85°	27.0	34.0	73.0	97.0	81.0	57.0	68.0	75.0	82.0	94.0	33.0
87.5°	3.0	4.0	35.0	47.0	23.0	21.0	25.0	28.0	30.0	35.0	16.0
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°	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0	1487.0
2.5°	1496.0	1500.0	1497.0	1492.0	1491.0	1488.0	1482.0	1482.0	1482.0	1484.0	1482.0
5°	1518.0	1521.0	1514.0	1504.0	1493.0	1479.0	1464.0	1455.0	1454.0	1452.0	1447.0
7.5°	1560.0	1564.0	1548.0	1524.0	1494.0	1460.0	1428.0	1398.0	1384.0	1373.0	1373.0
10°	1621.0	1625.0	1593.0	1550.0	1490.0	1421.0	1345.0	1276.0	1222.0	1197.0	1191.0
12.5°	1694.0	1696.0	1643.0	1568.0	1469.0	1336.0	1174.0	1023.0	918.0	870.0	865.0
15°	1774.0	1760.0	1690.0	1575.0	1409.0	1161.0	881.0	696.0	587.0	555.0	567.0
17.5°	1855.0	1829.0	1726.0	1564.0	1274.0	881.0	592.0	475.0	441.0	432.0	432.0
20°	1931.0	1895.0	1752.0	1516.0	1040.0	607.0	439.0	411.0	405.0	399.0	400.0
22.5°	2007.0	1952.0	1775.0	1409.0	775.0	434.0	393.0	384.0	376.0	368.0	367.0
25°	2081.0	2005.0	1784.0	1211.0	528.0	373.0	359.0	347.0	331.0	322.0	320.0
27.5°	2158.0	2069.0	1778.0	961.0	385.0	334.0	320.0	303.0	284.0	268.0	268.0
30°	2306.0	2191.0	1757.0	691.0	324.0	294.0	276.0	249.0	228.0	212.0	211.0
32.5°	2508.0	2350.0	1685.0	486.0	288.0	259.0	232.0	202.0	180.0	168.0	168.0
35°	2687.9	2510.0	1550.0	358.0	259.0	225.0	192.0	163.0	146.0	138.0	135.0
37.5°	2961.9	2743.9	1364.0	291.0	231.0	195.0	161.0	134.0	120.0	114.0	114.0
40°	3372.9	3029.9	1136.0	255.0	204.0	166.0	134.0	113.0	102.0	95.0	95.0
42.5°	3882.9	3379.9	905.0	229.0	179.0	143.0	112.0	96.0	86.0	81.0	80.0
45°	4524.9	3748.9	697.0	205.0	159.0	122.0	95.0	81.0	71.0	68.0	69.0
47.5°	5194.9	4073.9	540.0	184.0	138.0	103.0	81.0	70.0	63.0	59.0	59.0
50°	5766.9	4297.9	410.0	160.0	122.0	87.0	71.0	63.0	57.0	55.0	54.0
52.5°	6244.9	4362.9	314.0	139.0	107.0	75.0	63.0	57.0	52.0	49.0	49.0
55°	6651.9	4305.9	246.0	117.0	90.0	65.0	56.0	51.0	45.0	42.0	41.0
57.5°	6889.9	4122.9	188.0	97.0	73.0	54.0	49.0	43.0	36.0	31.0	31.0
60°	7009.9	3856.9	144.0	80.0	56.0	43.0	40.0	32.0	25.0	21.0	20.0
62.5°	6865.9	3503.9	109.0	63.0	42.0	32.0	27.0	23.0	16.0	12.0	12.0
63°	6776.9	3401.9	105.0	60.0	39.0	30.0	25.0	21.0	14.0	11.0	10.0
65°	6177.9	2956.9	86.0	48.0	31.0	21.0	17.0	15.0	10.0	5.0	4.0
67.5°	4905.9	2262.0	68.0	36.0	22.0	15.0	10.0	9.0	3.0	0.0	0.0
70°	3316.9	1461.0	53.0	26.0	15.0	9.0	5.0	4.0	1.0	0.0	0.0
72.5°	1730.0	749.0	41.0	19.0	9.0	6.0	3.0	1.0	0.0	0.0	0.0
75°	612.0	255.0	30.0	12.0	6.0	3.0	1.0	0.0	0.0	0.0	0.0
77.5°	185.0	95.0	19.0	9.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	65.0	35.0	11.0	6.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.0	17.0	7.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	18.0	11.0	6.0	5.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	8.0	6.0	5.0	4.0	2.0	1.0	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)