

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: P453057

Luminaire Tested: **GALN-SA4A-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
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-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13027 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

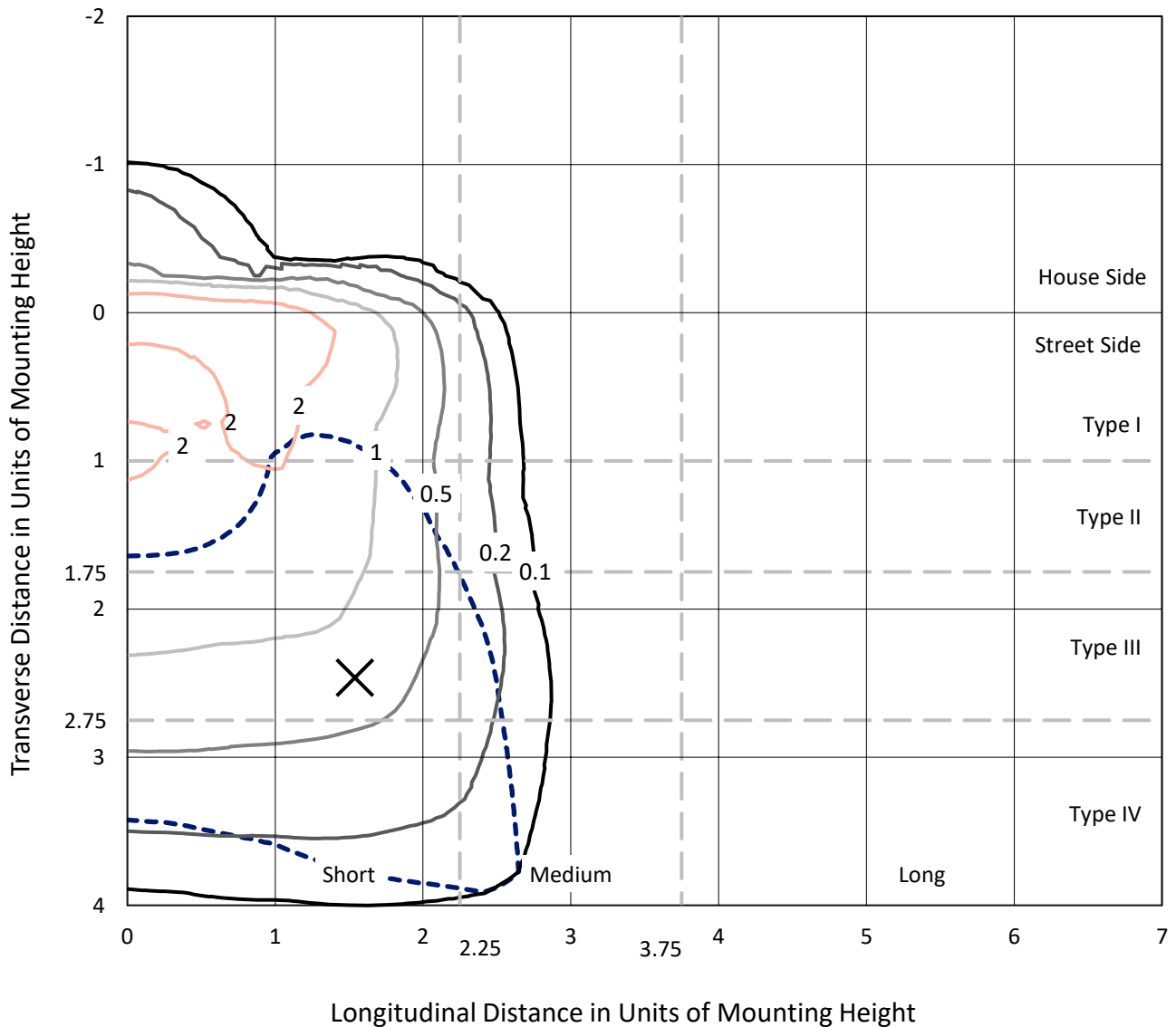
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

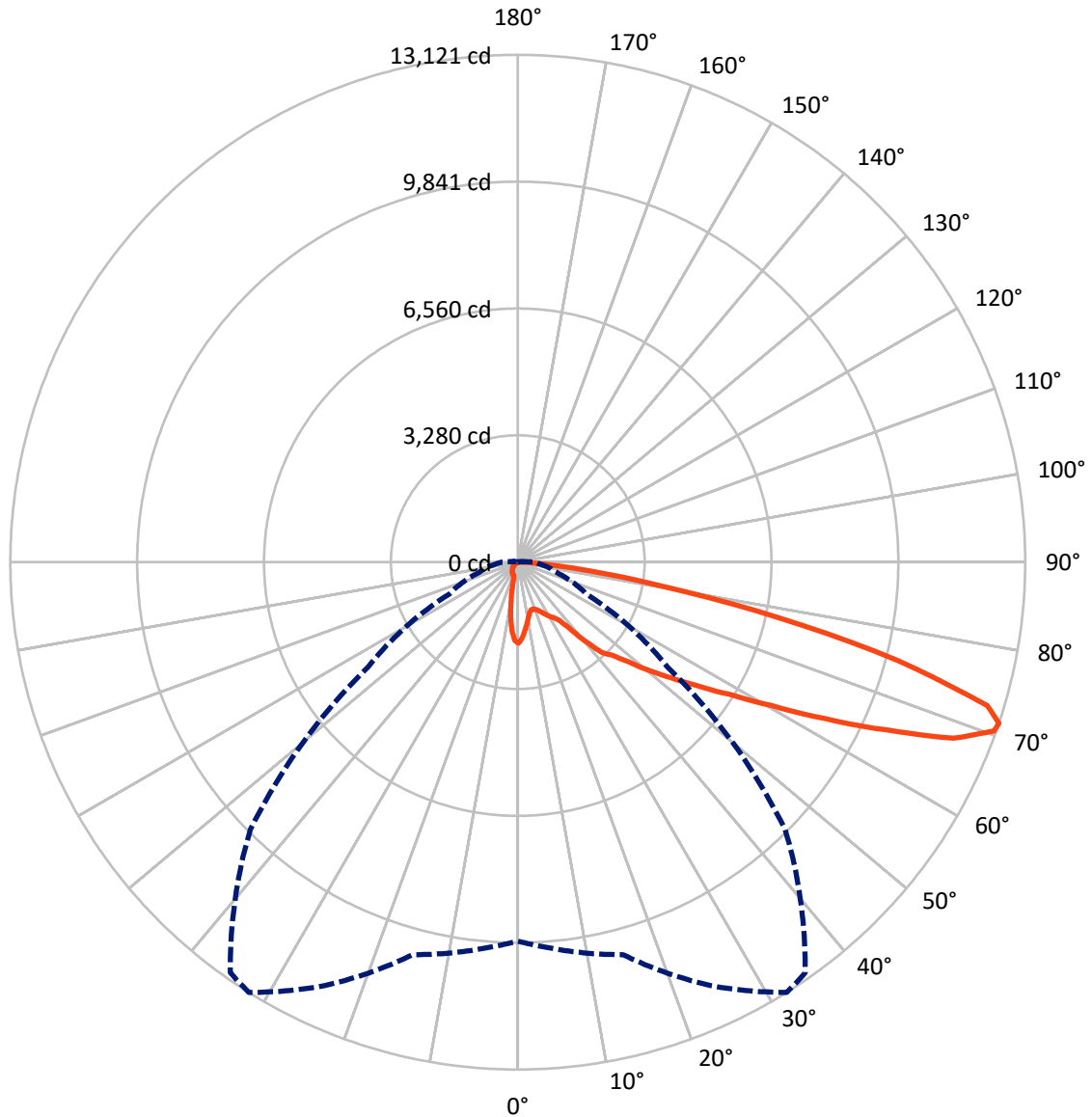
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1091.2	0.0	1091.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	11935.9	0.0	11935.9
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	13027.0	0.0	13027.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.3	1.3
10°-20°	369.7	2.8
20°-30°	575.2	4.4
30°-40°	958.2	7.4
40°-50°	1782.4	13.7
50°-60°	2861.7	22.0
60°-70°	3849.2	29.5
70°-80°	2283.8	17.5
80°-90°	176.5	1.4
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°	13027.0	100.0
0°-180°	13027.0	100.0



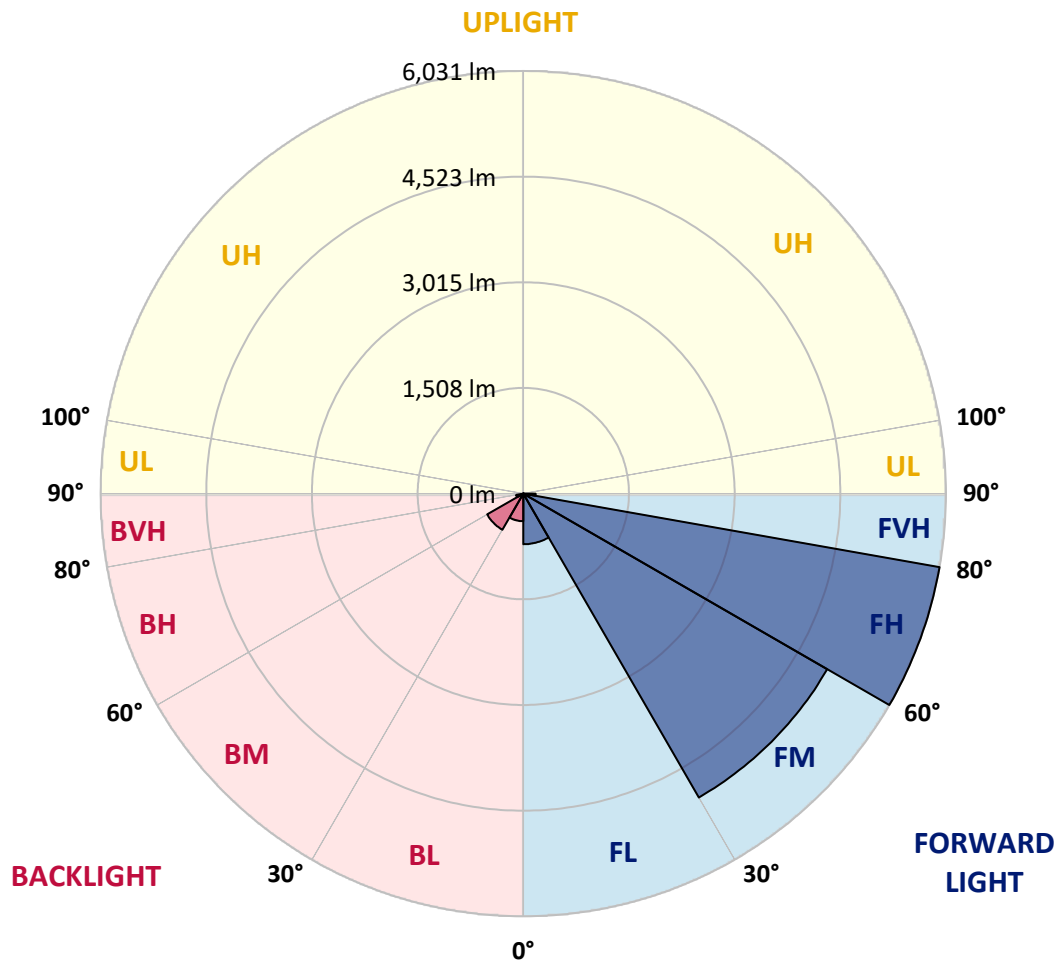
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.1	5.5			
FM (30°-60°)	5007.1	38.4			
FH (60°-80°)	6030.9	46.3			G3/7500
FVH (80°-90°)	175.8	1.3			G2/225
BL (0°-30°)	393.2	3.0	B1/500		
BM (30°-60°)	595.3	4.6	B1/1000		
BH (60°-80°)	102.1	0.8	B0/110		G0/110
BVH (80°-90°)	0.7	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9
2.5°	1942.9	1962.9	1959.9	1966.9	1983.9	1990.9	2009.9	2030.9	2059.9	2079.9	2092.9
5°	1740.0	1755.0	1757.0	1792.0	1809.0	1828.0	1884.0	1944.9	2012.9	2066.9	2102.9
7.5°	1523.0	1531.0	1547.0	1593.0	1636.0	1655.0	1740.0	1846.0	1952.9	2053.9	2118.9
10°	1344.0	1353.0	1382.0	1431.0	1471.0	1496.0	1614.0	1747.0	1897.0	2046.9	2141.9
12.5°	1242.0	1247.0	1258.0	1302.0	1353.0	1380.0	1507.0	1659.0	1852.0	2049.9	2180.9
15°	1235.0	1233.0	1220.0	1238.0	1284.0	1312.0	1436.0	1599.0	1812.0	2059.9	2226.9
17.5°	1272.0	1267.0	1236.0	1236.0	1274.0	1297.0	1406.0	1567.0	1792.0	2082.9	2291.9
20°	1329.0	1321.0	1270.0	1266.0	1303.0	1327.0	1424.0	1569.0	1796.0	2125.9	2378.9
22.5°	1401.0	1392.0	1315.0	1317.0	1357.0	1381.0	1476.0	1605.0	1821.0	2178.9	2471.9
25°	1495.0	1485.0	1394.0	1390.0	1432.0	1453.0	1553.0	1669.0	1856.0	2244.9	2593.9
27.5°	1620.0	1599.0	1490.0	1484.0	1529.0	1556.0	1646.0	1755.0	1917.9	2335.9	2757.9
30°	1723.0	1700.0	1596.0	1580.0	1628.0	1649.0	1742.0	1871.0	2039.9	2494.9	2984.9
32.5°	1858.0	1824.0	1702.0	1660.0	1711.0	1738.0	1881.0	2086.9	2220.9	2662.9	3254.9
35°	2161.9	2140.9	1991.9	1845.0	1842.0	1876.0	2085.9	2304.9	2406.9	2924.9	3622.9
37.5°	2596.9	2581.9	2423.9	2226.9	2169.9	2153.9	2334.9	2544.9	2703.9	3284.9	4050.9
40°	3101.9	3066.9	2921.9	2754.9	2680.9	2633.9	2628.9	2901.9	3091.9	3773.9	4496.9
42.5°	3463.9	3399.9	3223.9	3211.9	3195.9	3146.9	3004.9	3423.9	3592.9	4299.9	4973.9
45°	3843.9	3746.9	3484.9	3439.9	3433.9	3430.9	3572.9	4041.9	4138.9	4869.9	5463.9
47.5°	4138.9	4061.9	3846.9	3826.9	3851.9	3919.9	4323.9	4697.9	4677.9	5377.9	5874.8
50°	4531.9	4473.9	4234.9	4272.9	4401.9	4512.9	5170.9	5412.9	5120.9	5777.8	6173.8
52.5°	4995.9	4888.9	4666.9	4769.9	4967.9	5152.9	6069.8	6038.8	5431.9	6078.8	6396.8
55°	5397.9	5321.9	5245.9	5352.9	5648.9	5879.8	6881.8	6507.8	5657.9	6320.8	6494.8
57.5°	6077.8	6059.8	5981.8	6090.8	6449.8	6689.8	7608.8	6871.8	5802.8	6446.8	6379.8
60°	7083.8	7054.8	6909.8	7048.8	7516.8	7893.8	8278.8	7198.8	5835.8	6397.8	6048.8
62.5°	8293.8	8194.8	8070.8	8275.8	8917.8	9083.8	8909.8	7392.8	5712.9	6007.8	5250.9
65°	9423.8	9321.8	9324.8	9756.7	10455.7	10568.7	9645.7	7363.8	5352.9	5030.9	3872.9
67.5°	10288.7	10271.7	10393.7	11236.7	12150.7	12072.7	10303.7	6929.8	4285.9	3260.9	2057.9
70°	10332.7	10365.7	10715.7	12138.7	13066.7	12942.7	10247.7	5632.9	2671.9	1500.0	811.0
71°	9800.7	10022.7	10506.7	12110.7	13120.7	12959.7	9775.7	4717.9	1959.9	1046.0	585.0
72.5°	8351.8	8468.8	9514.8	11397.7	12693.7	12349.7	8578.8	3306.9	1255.0	640.0	336.0
75°	4599.9	4887.9	6371.8	8941.8	10152.7	9850.7	5590.9	1571.0	626.0	350.0	139.0
77.5°	2189.9	2133.9	3108.9	5317.9	6883.8	6867.8	2816.9	698.0	365.0	237.0	70.0
80°	626.0	704.0	1190.0	2527.9	3821.9	3863.9	1082.0	337.0	253.0	185.0	36.0
82.5°	189.0	193.0	437.0	1118.0	1901.0	1792.0	406.0	172.0	182.0	147.0	21.0
85°	33.0	41.0	129.0	394.0	725.0	550.0	102.0	82.0	120.0	97.0	12.0
87.5°	2.0	3.0	43.0	45.0	64.0	37.0	18.0	12.0	26.0	26.0	7.0
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°	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9	2094.9
2.5°	2101.9	2107.9	2103.9	2094.9	2079.9	2061.9	2037.9	2017.9	2000.9	1991.9	2002.9
5°	2114.9	2122.9	2102.9	2057.9	1989.9	1915.9	1832.0	1767.0	1716.0	1700.0	1694.0
7.5°	2134.9	2139.9	2085.9	1985.9	1842.0	1667.0	1514.0	1385.0	1285.0	1255.0	1211.0
10°	2160.9	2157.9	2055.9	1870.0	1617.0	1354.0	1117.0	941.0	808.0	760.0	756.0
12.5°	2200.9	2184.9	2017.9	1712.0	1349.0	1005.0	712.0	557.0	473.0	445.0	439.0
15°	2250.9	2212.9	1957.9	1527.0	1033.0	649.0	439.0	392.0	381.0	379.0	377.0
17.5°	2309.9	2249.9	1879.0	1300.0	726.0	421.0	367.0	366.0	367.0	365.0	364.0
20°	2389.9	2288.9	1785.0	1031.0	480.0	355.0	350.0	350.0	351.0	350.0	350.0
22.5°	2474.9	2334.9	1669.0	787.0	362.0	337.0	336.0	338.0	340.0	339.0	339.0
25°	2579.9	2394.9	1516.0	539.0	324.0	322.0	323.0	327.0	331.0	332.0	331.0
27.5°	2731.9	2468.9	1352.0	371.0	297.0	299.0	309.0	319.0	325.0	326.0	326.0
30°	2902.9	2550.9	1138.0	301.0	275.0	275.0	287.0	306.0	319.0	321.0	322.0
32.5°	3122.9	2645.9	901.0	271.0	254.0	252.0	263.0	286.0	310.0	317.0	317.0
35°	3394.9	2757.9	670.0	252.0	239.0	234.0	240.0	259.0	290.0	310.0	312.0
37.5°	3713.9	2863.9	490.0	235.0	225.0	218.0	222.0	237.0	262.0	292.0	300.0
40°	4008.9	2957.9	366.0	221.0	211.0	206.0	209.0	216.0	237.0	265.0	270.0
42.5°	4330.9	3030.9	291.0	206.0	197.0	195.0	195.0	198.0	212.0	228.0	229.0
45°	4651.9	3056.9	244.0	188.0	182.0	184.0	183.0	181.0	187.0	185.0	185.0
47.5°	4880.9	3025.9	202.0	171.0	171.0	174.0	169.0	162.0	159.0	147.0	148.0
50°	5037.9	2912.9	166.0	151.0	159.0	163.0	153.0	142.0	131.0	118.0	115.0
52.5°	5102.9	2711.9	136.0	125.0	141.0	146.0	134.0	121.0	104.0	93.0	90.0
55°	5060.9	2463.9	113.0	102.0	119.0	125.0	113.0	98.0	79.0	67.0	65.0
57.5°	4875.9	2167.9	96.0	81.0	95.0	99.0	91.0	75.0	56.0	44.0	44.0
60°	4555.9	1862.0	78.0	64.0	71.0	77.0	69.0	54.0	38.0	27.0	25.0
62.5°	3906.9	1512.0	63.0	50.0	50.0	55.0	48.0	39.0	24.0	14.0	13.0
65°	2820.9	1037.0	50.0	37.0	36.0	36.0	30.0	26.0	14.0	6.0	4.0
67.5°	1533.0	585.0	40.0	28.0	25.0	24.0	19.0	15.0	6.0	1.0	0.0
70°	603.0	225.0	31.0	19.0	16.0	15.0	10.0	7.0	4.0	0.0	0.0
71°	409.0	155.0	27.0	16.0	13.0	11.0	8.0	6.0	3.0	0.0	0.0
72.5°	234.0	96.0	21.0	12.0	10.0	8.0	6.0	4.0	3.0	0.0	0.0
75°	102.0	49.0	13.0	9.0	7.0	5.0	4.0	3.0	1.0	0.0	0.0
77.5°	52.0	27.0	9.0	7.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0
80°	29.0	14.0	6.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
82.5°	16.0	8.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.0	0.0	0.0	0.0	0.0	1.0	1.0	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)