

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: LUMARK

Report Number: P381188

Luminaire Tested: **PRV-PA1A-740-U-T2R-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA1A-740-U-T2R-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

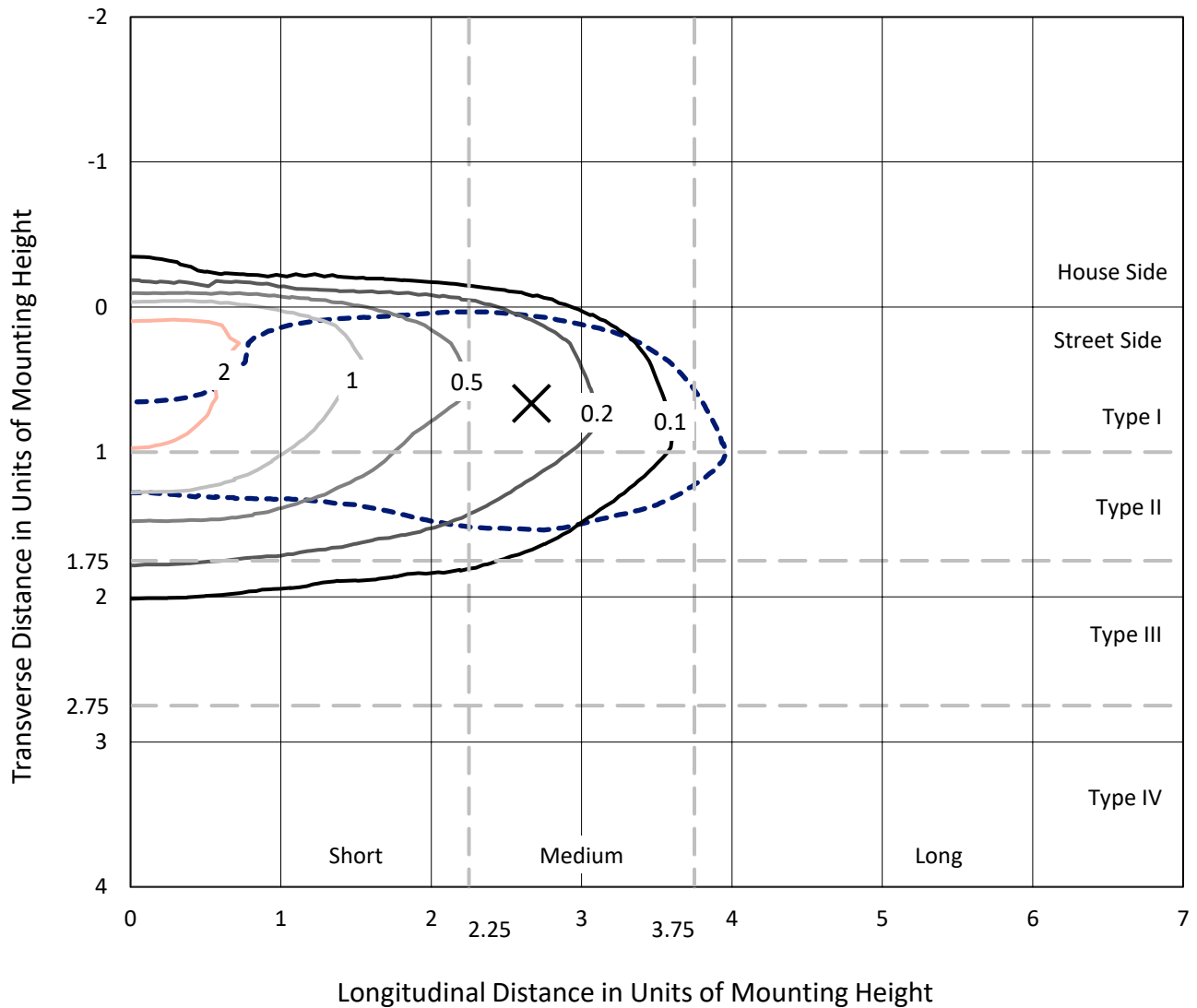
Lumens per Lamp: N/A  
Luminaire Lumens: 6006 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

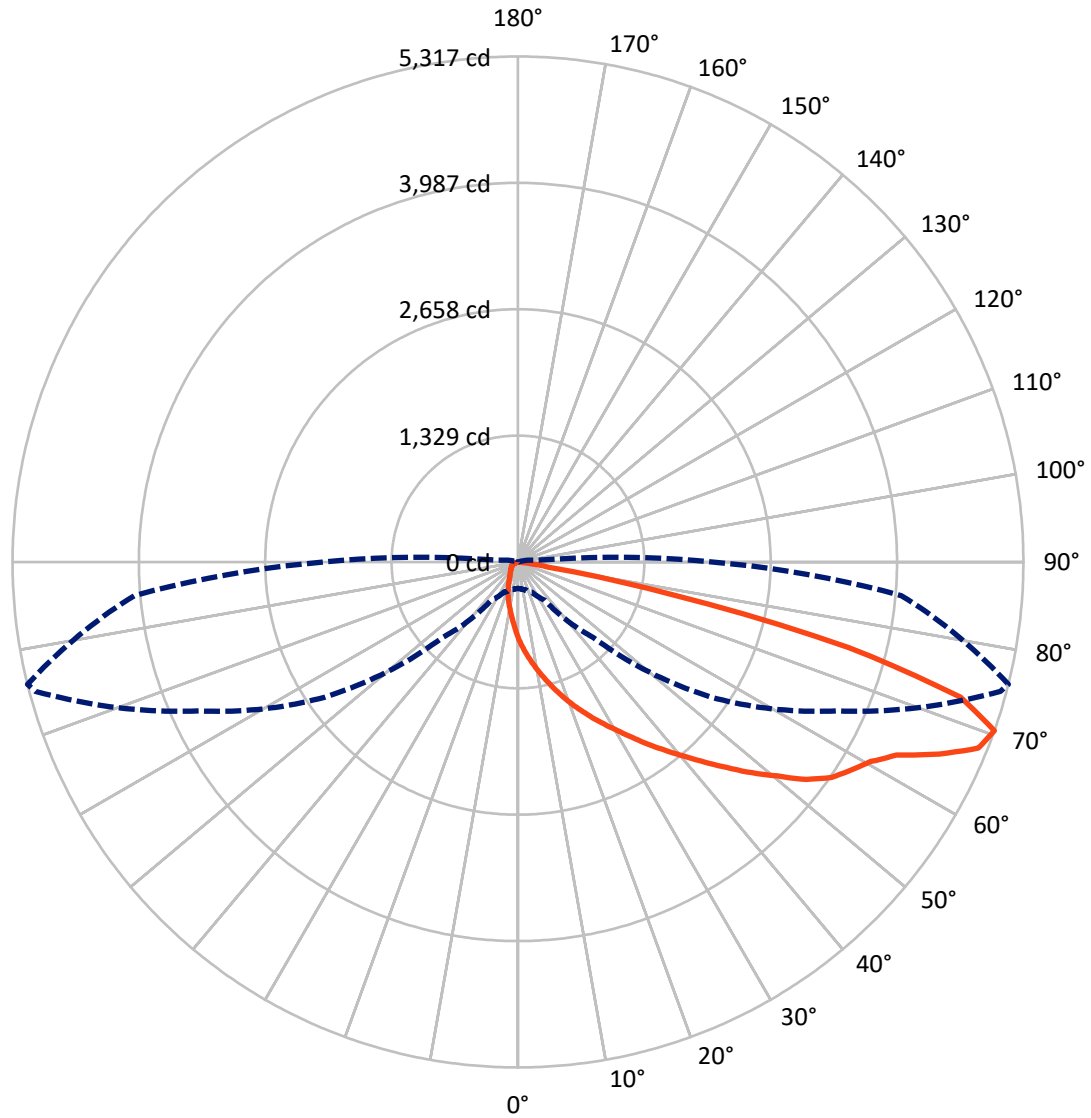
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	283.3	0.0	283.3
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	5722.8	0.0	5722.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	6006.0	0.0	6006.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	1.3
10°-20°	244.4	4.1
20°-30°	455.2	7.6
30°-40°	805.2	13.4
40°-50°	1231.4	20.5
50°-60°	1396.1	23.2
60°-70°	1196.8	19.9
70°-80°	579.7	9.7
80°-90°	21.5	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°	6006.0	100.0
0°-180°	6006.0	100.0

**Coefficient of Utilization**



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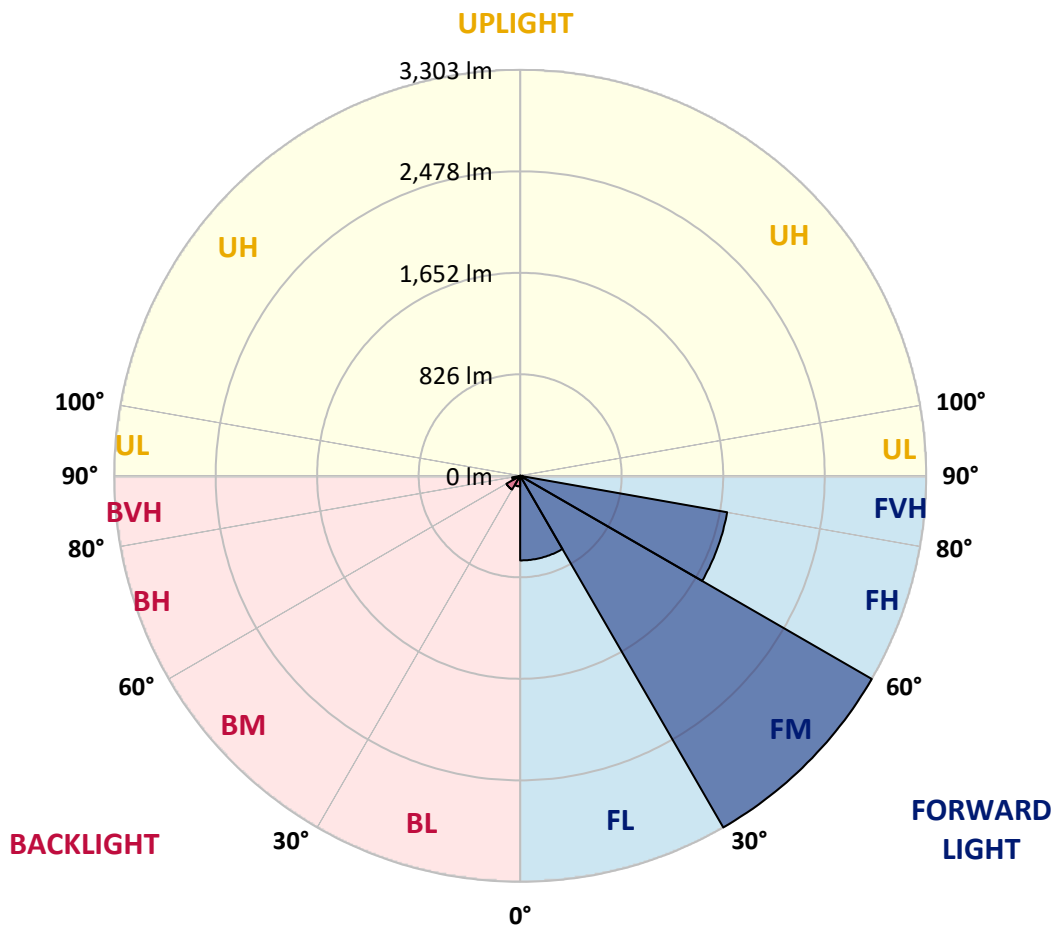
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.5	11.5			
FM (30°-60°)	3303.4	55.0			
FH (60°-80°)	1709.7	28.5			G1/1800
FVH (80°-90°)	21.1	0.4			G1/100
BL (0°-30°)	86.9	1.4	B0/110		
BM (30°-60°)	129.3	2.2	B0/220		
BH (60°-80°)	66.7	1.1	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9
2.5°	1098.9	1092.9	1086.9	1063.9	1042.9	1023.9	987.9	940.9	898.9	889.9	840.9
5°	1290.9	1283.9	1274.9	1251.9	1224.9	1192.9	1139.9	1067.9	993.9	977.9	886.9
7.5°	1420.9	1414.9	1401.9	1390.9	1363.9	1332.9	1273.9	1189.9	1087.9	1067.9	939.9
10°	1509.9	1505.9	1503.9	1494.9	1474.9	1449.9	1390.9	1302.9	1182.9	1159.9	995.9
12.5°	1541.9	1541.9	1551.9	1566.9	1569.9	1561.9	1507.9	1419.9	1282.9	1258.9	1061.9
15°	1498.9	1503.9	1525.9	1573.9	1623.9	1656.9	1622.9	1540.9	1392.9	1366.9	1139.9
17.5°	1486.9	1491.9	1506.9	1548.9	1615.9	1703.9	1720.9	1657.9	1496.9	1474.9	1219.9
20°	1520.9	1525.9	1538.9	1574.9	1625.9	1714.9	1785.9	1770.9	1606.9	1583.9	1300.9
22.5°	1601.9	1604.9	1604.9	1632.9	1677.9	1743.9	1826.9	1877.9	1719.9	1694.9	1380.9
25°	1775.9	1769.9	1745.9	1731.9	1760.9	1814.9	1878.9	1971.9	1845.9	1811.9	1466.9
27.5°	2003.9	2023.9	1965.9	1898.9	1876.9	1907.9	1951.9	2054.9	1967.9	1931.9	1544.9
30°	2312.8	2304.8	2228.8	2132.8	2037.9	2026.9	2041.9	2125.8	2089.8	2055.9	1631.9
32.5°	2566.8	2581.8	2501.8	2384.8	2242.8	2175.8	2159.8	2210.8	2219.8	2197.8	1734.9
35°	2827.8	2843.8	2765.8	2635.8	2466.8	2354.8	2308.8	2315.8	2380.8	2352.8	1842.9
37.5°	3061.8	3075.8	2998.8	2865.8	2696.8	2559.8	2493.8	2439.8	2536.8	2511.8	1956.9
40°	3239.8	3241.8	3189.8	3070.8	2910.8	2768.8	2693.8	2587.8	2701.8	2684.8	2075.8
42.5°	3365.8	3369.8	3331.8	3229.8	3081.8	2949.8	2888.8	2762.8	2891.8	2876.8	2213.8
45°	3424.8	3431.8	3427.8	3333.8	3210.8	3096.8	3076.8	2948.8	3099.8	3085.8	2372.8
47.5°	3368.8	3368.8	3419.8	3406.8	3293.8	3217.8	3240.8	3142.8	3325.8	3312.8	2534.8
50°	3135.8	3138.8	3242.8	3391.8	3325.8	3308.8	3380.8	3332.8	3530.7	3538.7	2728.8
52.5°	2523.8	2518.8	2869.8	3155.8	3303.8	3349.8	3509.7	3526.7	3776.7	3800.7	2921.8
55°	1885.9	1882.9	2218.8	2737.8	3149.8	3328.8	3581.7	3699.7	3986.7	4001.7	3065.8
57.5°	1492.9	1484.9	1669.9	2206.8	2801.8	3234.8	3584.7	3732.7	4103.7	4129.7	3205.8
60°	1147.9	1140.9	1278.9	1641.9	2308.8	2984.8	3498.7	3734.7	4216.7	4262.7	3393.8
62.5°	820.9	828.9	934.9	1177.9	1775.9	2631.8	3386.8	3762.7	4417.7	4469.7	3660.7
65°	554.0	550.0	638.0	801.9	1262.9	2156.8	3214.8	3821.7	4779.7	4870.6	3980.7
67.5°	385.0	388.0	428.0	522.0	801.9	1655.9	2928.8	3854.7	5153.6	5224.6	4204.7
70°	278.0	282.0	304.0	351.0	490.0	1122.9	2475.8	3703.7	5254.6	5316.6	4048.7
72.5°	183.0	191.0	224.0	249.0	313.0	702.9	1823.9	3190.8	4819.7	4865.6	3396.8
75°	99.0	101.0	144.0	186.0	223.0	438.0	1087.9	2151.8	3605.7	3590.7	2239.8
77.5°	77.0	80.0	89.0	133.0	150.0	241.0	430.0	971.9	1707.9	1661.9	763.9
80°	47.0	49.0	62.0	79.0	105.0	140.0	126.0	264.0	347.0	325.0	112.0
82.5°	28.0	30.0	37.0	66.0	83.0	66.0	44.0	64.0	65.0	64.0	28.0
85°	5.0	5.0	26.0	46.0	44.0	19.0	26.0	21.0	19.0	20.0	6.0
87.5°	0.0	0.0	10.0	14.0	20.0	7.0	10.0	5.0	5.0	5.0	3.0
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°	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9	803.9
2.5°	810.9	776.9	706.9	646.0	585.0	540.0	506.0	471.0	459.0	444.0	436.0
5°	824.9	757.9	619.0	508.0	414.0	342.0	296.0	268.0	250.0	237.0	234.0
7.5°	845.9	742.9	548.0	398.0	295.0	223.0	185.0	166.0	156.0	150.0	148.0
10°	870.9	729.9	478.0	310.0	208.0	157.0	136.0	128.0	124.0	122.0	121.0
12.5°	905.9	724.9	419.0	239.0	157.0	129.0	118.0	113.0	110.0	107.0	106.0
15°	951.9	726.9	365.0	185.0	130.0	115.0	106.0	101.0	97.0	94.0	94.0
17.5°	999.9	729.9	312.0	150.0	118.0	105.0	95.0	88.0	85.0	82.0	81.0
20°	1044.9	728.9	261.0	128.0	107.0	94.0	84.0	77.0	72.0	69.0	69.0
22.5°	1087.9	722.9	213.0	115.0	98.0	83.0	72.0	65.0	61.0	58.0	58.0
25°	1133.9	710.9	174.0	105.0	87.0	73.0	62.0	55.0	52.0	49.0	49.0
27.5°	1169.9	690.9	142.0	96.0	77.0	63.0	53.0	47.0	44.0	42.0	42.0
30°	1208.9	662.0	118.0	86.0	67.0	54.0	45.0	40.0	37.0	36.0	36.0
32.5°	1251.9	630.0	101.0	76.0	57.0	46.0	38.0	35.0	32.0	31.0	31.0
35°	1301.9	602.0	91.0	66.0	50.0	39.0	33.0	30.0	28.0	28.0	28.0
37.5°	1358.9	573.0	82.0	58.0	43.0	33.0	28.0	27.0	26.0	25.0	25.0
40°	1420.9	542.0	74.0	51.0	37.0	28.0	24.0	24.0	23.0	23.0	23.0
42.5°	1490.9	515.0	67.0	45.0	32.0	24.0	21.0	21.0	20.0	20.0	20.0
45°	1566.9	490.0	61.0	40.0	28.0	21.0	19.0	18.0	17.0	17.0	17.0
47.5°	1656.9	476.0	56.0	35.0	24.0	18.0	16.0	15.0	14.0	13.0	13.0
50°	1771.9	482.0	51.0	29.0	21.0	15.0	13.0	12.0	11.0	10.0	10.0
52.5°	1862.9	479.0	44.0	25.0	17.0	12.0	10.0	9.0	8.0	7.0	7.0
55°	1928.9	467.0	38.0	21.0	13.0	10.0	8.0	6.0	5.0	5.0	5.0
57.5°	1993.9	455.0	32.0	17.0	10.0	7.0	5.0	4.0	4.0	4.0	4.0
60°	2094.8	438.0	28.0	14.0	8.0	5.0	3.0	3.0	2.0	2.0	2.0
62.5°	2217.8	417.0	23.0	12.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0
65°	2352.8	380.0	19.0	9.0	5.0	3.0	2.0	0.0	0.0	0.0	0.0
67.5°	2321.8	305.0	16.0	6.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0
70°	2053.9	206.0	13.0	5.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	1608.9	122.0	9.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	1029.9	61.0	6.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	345.0	30.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	49.0	10.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.0	4.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	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)