

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: P381197

Luminaire Tested: **PRV-PA1B-750-U-T2R-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381197  
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-PA1B-750-U-T2R-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

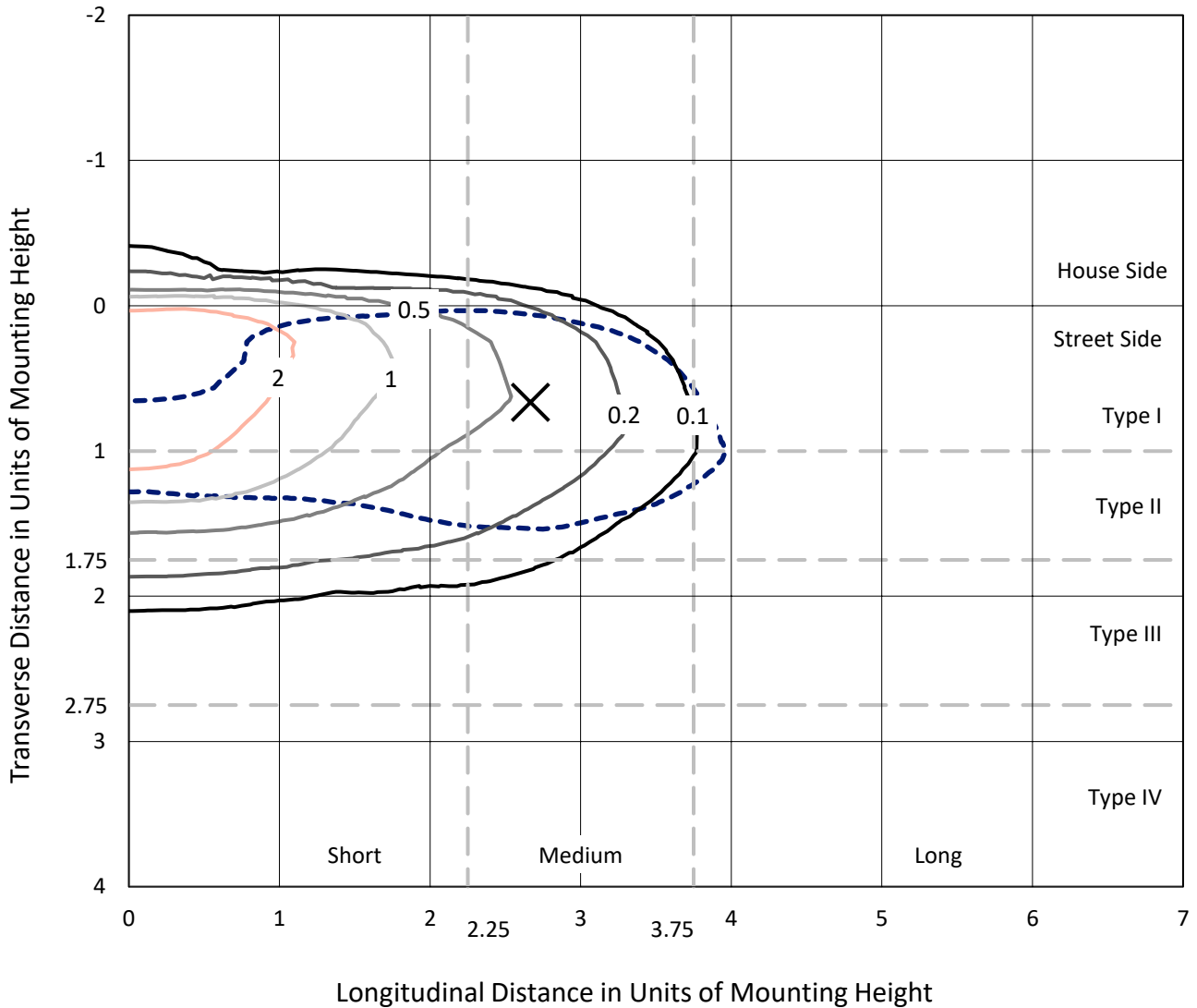
Lumens per Lamp: N/A  
Luminaire Lumens: 7815 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

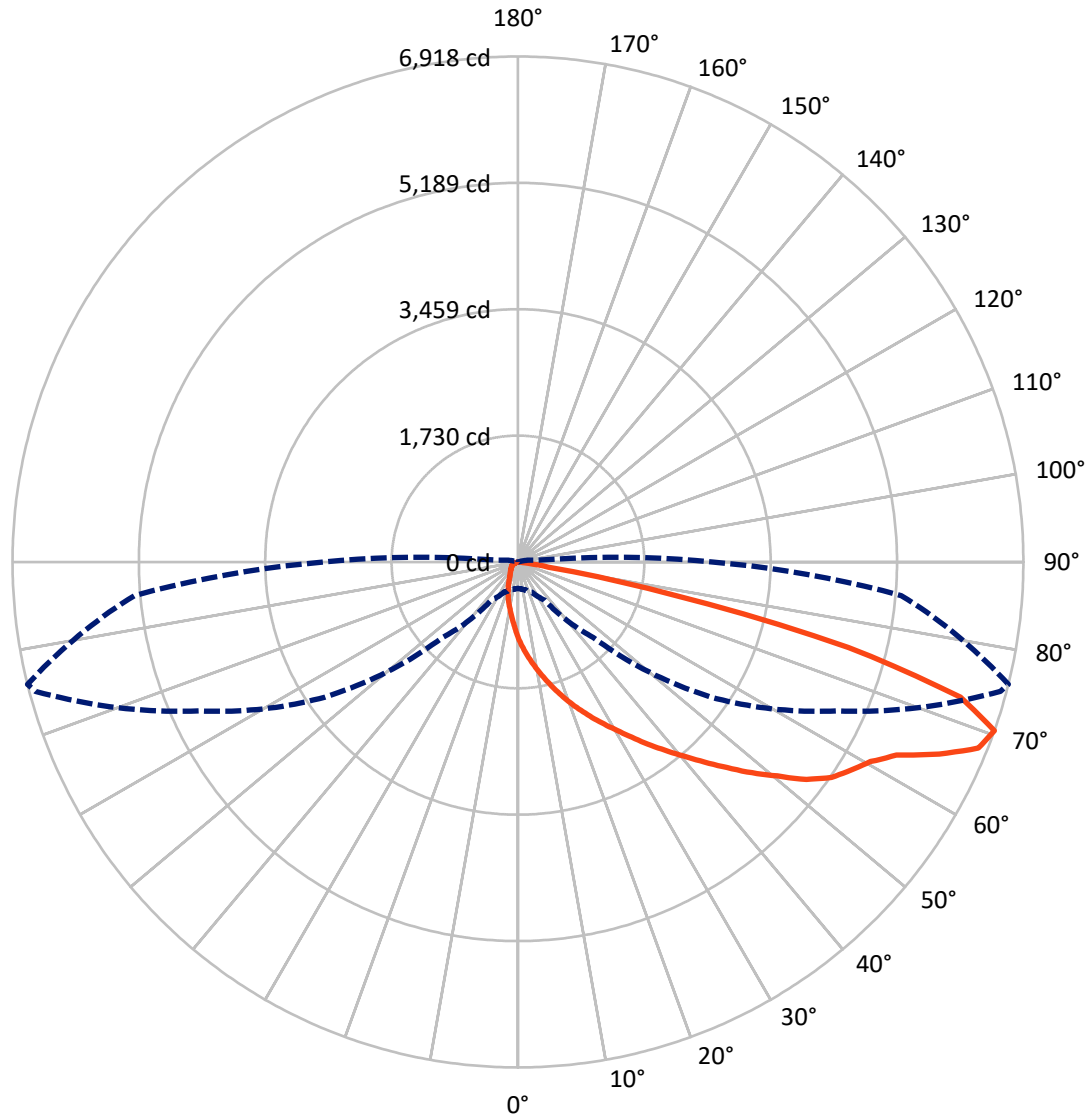
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	368.6	0.0	368.6
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	7446.4	0.0	7446.4
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	7815.0	0.0	7815.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	1.3
10°-20°	318.1	4.1
20°-30°	592.4	7.6
30°-40°	1047.7	13.4
40°-50°	1602.2	20.5
50°-60°	1816.6	23.2
60°-70°	1557.2	19.9
70°-80°	754.2	9.7
80°-90°	28.0	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°	7815.0	100.0
0°-180°	7815.0	100.0

**Coefficient of Utilization**



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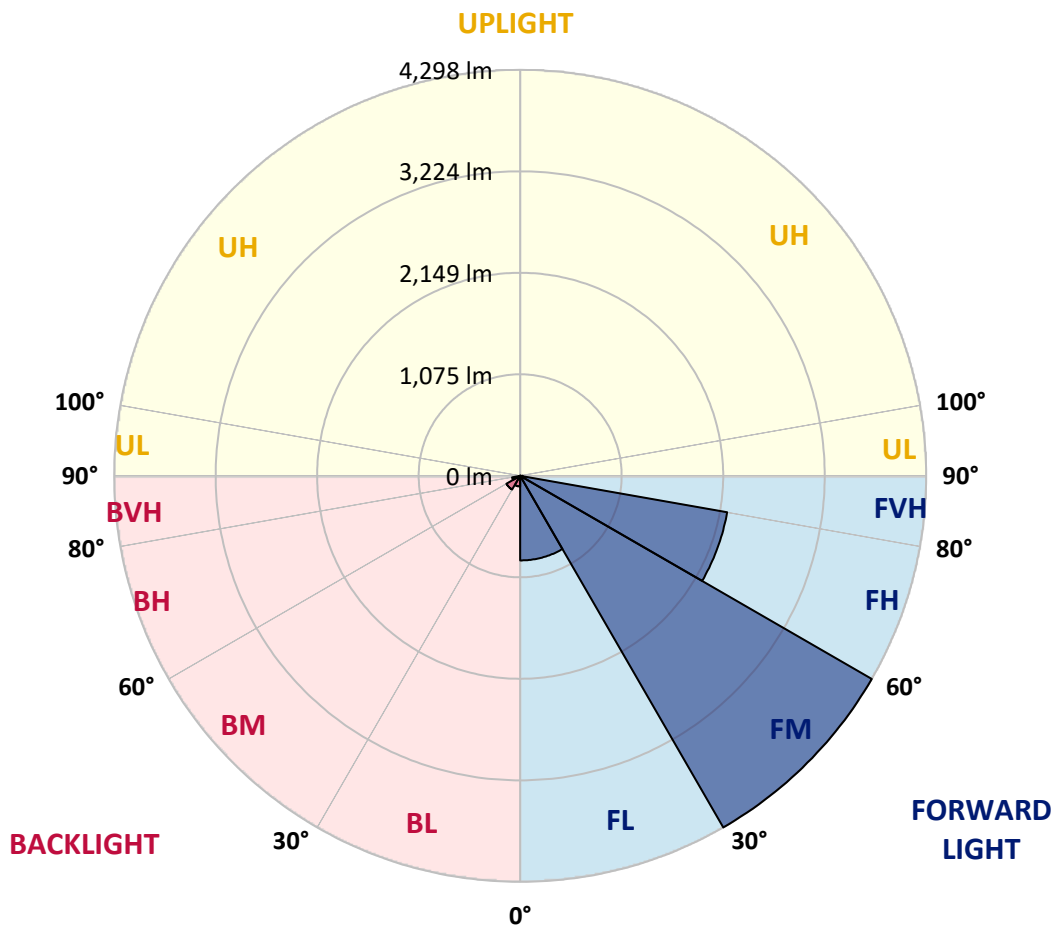
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.9	11.5			
FM (30°-60°)	4298.3	55.0			
FH (60°-80°)	2224.7	28.5			G2/5000
FVH (80°-90°)	27.5	0.4			G1/100
BL (0°-30°)	113.1	1.4	B1/500		
BM (30°-60°)	168.2	2.2	B0/220		
BH (60°-80°)	86.8	1.1	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1429.9	1422.1	1414.3	1384.4	1357.1	1332.3	1285.5	1224.3	1169.7	1158.0	1094.2
5°	1679.7	1670.6	1658.9	1629.0	1593.9	1552.2	1483.3	1389.6	1293.3	1272.5	1154.1
7.5°	1848.9	1841.1	1824.1	1809.8	1774.7	1734.4	1657.6	1548.3	1415.6	1389.6	1223.0
10°	1964.7	1959.5	1956.9	1945.2	1919.1	1886.6	1809.8	1695.3	1539.2	1509.3	1295.9
12.5°	2006.3	2006.3	2019.3	2038.8	2042.7	2032.3	1962.1	1847.6	1669.3	1638.1	1381.8
15°	1950.4	1956.9	1985.5	2047.9	2113.0	2155.9	2111.7	2005.0	1812.4	1778.6	1483.3
17.5°	1934.7	1941.2	1960.8	2015.4	2102.6	2217.1	2239.2	2157.2	1947.8	1919.1	1587.3
20°	1979.0	1985.5	2002.4	2049.2	2115.6	2231.4	2323.8	2304.3	2090.9	2060.9	1692.7
22.5°	2084.4	2088.3	2088.3	2124.7	2183.3	2269.1	2377.1	2443.5	2237.9	2205.4	1796.8
25°	2310.8	2303.0	2271.7	2253.5	2291.2	2361.5	2444.8	2565.8	2401.8	2357.6	1908.7
27.5°	2607.4	2633.4	2558.0	2470.8	2442.2	2482.5	2539.8	2673.8	2560.6	2513.7	2010.2
30°	3009.5	2999.0	2900.2	2775.3	2651.7	2637.3	2656.9	2766.1	2719.3	2675.1	2123.4
32.5°	3339.9	3359.5	3255.4	3103.1	2918.4	2831.2	2810.4	2876.7	2888.5	2859.8	2257.4
35°	3679.5	3700.3	3598.9	3429.7	3209.8	3064.1	3004.3	3013.4	3097.9	3061.5	2397.9
37.5°	3984.0	4002.2	3902.0	3729.0	3509.1	3330.8	3245.0	3174.7	3300.9	3268.4	2546.3
40°	4215.6	4218.2	4150.5	3995.7	3787.5	3602.8	3505.2	3367.3	3515.6	3493.5	2701.1
42.5°	4379.5	4384.7	4335.3	4202.6	4010.0	3838.3	3758.9	3595.0	3762.8	3743.3	2880.6
45°	4456.3	4465.4	4460.2	4337.9	4177.8	4029.5	4003.5	3837.0	4033.4	4015.2	3087.5
47.5°	4383.4	4383.4	4449.8	4432.9	4285.8	4187.0	4216.9	4089.4	4327.5	4310.6	3298.3
50°	4080.3	4084.2	4219.5	4413.3	4327.5	4305.4	4399.0	4336.6	4594.2	4604.6	3550.7
52.5°	3284.0	3277.5	3734.2	4106.3	4298.8	4358.7	4566.9	4589.0	4914.3	4945.5	3801.8
55°	2453.9	2450.0	2887.2	3562.4	4098.5	4331.4	4660.6	4814.1	5187.5	5207.0	3989.2
57.5°	1942.5	1932.1	2172.8	2871.5	3645.7	4209.1	4664.5	4857.0	5339.7	5373.6	4171.3
60°	1493.7	1484.6	1664.1	2136.4	3004.3	3883.8	4552.6	4859.6	5486.8	5546.6	4415.9
62.5°	1068.2	1078.6	1216.5	1532.7	2310.8	3424.5	4406.8	4896.1	5748.3	5815.9	4763.3
65°	720.8	715.6	830.1	1043.5	1643.3	2806.5	4183.1	4972.8	6219.3	6337.7	5179.7
67.5°	500.9	504.8	556.9	679.2	1043.5	2154.6	3810.9	5015.8	6705.9	6798.3	5471.1
70°	361.7	366.9	395.5	456.7	637.5	1461.1	3221.5	4819.3	6837.3	6918.0	5268.2
72.5°	238.1	248.5	291.4	324.0	407.2	914.7	2373.2	4151.8	6271.3	6331.2	4419.9
75°	128.8	131.4	187.4	242.0	290.1	569.9	1415.6	2800.0	4691.8	4672.3	2914.5
77.5°	100.2	104.1	115.8	173.0	195.2	313.6	559.5	1264.7	2222.3	2162.4	994.0
80°	61.2	63.8	80.7	102.8	136.6	182.2	163.9	343.5	451.5	422.9	145.7
82.5°	36.4	39.0	48.1	85.9	108.0	85.9	57.2	83.3	84.6	83.3	36.4
85°	6.5	6.5	33.8	59.9	57.2	24.7	33.8	27.3	24.7	26.0	7.8
87.5°	0.0	0.0	13.0	18.2	26.0	9.1	13.0	6.5	6.5	6.5	3.9
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°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1055.2	1011.0	919.9	840.5	761.1	702.6	658.4	612.8	597.2	577.7	567.3
5°	1073.4	986.2	805.4	661.0	538.7	445.0	385.1	348.7	325.3	308.4	304.5
7.5°	1100.7	966.7	713.0	517.8	383.8	290.1	240.7	216.0	203.0	195.2	192.6
10°	1133.3	949.8	621.9	403.3	270.6	204.3	177.0	166.5	161.3	158.7	157.4
12.5°	1178.8	943.3	545.2	311.0	204.3	167.8	153.5	147.0	143.1	139.2	137.9
15°	1238.7	945.9	474.9	240.7	169.1	149.6	137.9	131.4	126.2	122.3	122.3
17.5°	1301.1	949.8	405.9	195.2	153.5	136.6	123.6	114.5	110.6	106.7	105.4
20°	1359.7	948.5	339.6	166.5	139.2	122.3	109.3	100.2	93.7	89.8	89.8
22.5°	1415.6	940.7	277.1	149.6	127.5	108.0	93.7	84.6	79.4	75.5	75.5
25°	1475.5	925.1	226.4	136.6	113.2	95.0	80.7	71.6	67.7	63.8	63.8
27.5°	1522.3	899.1	184.8	124.9	100.2	82.0	69.0	61.2	57.2	54.6	54.6
30°	1573.0	861.3	153.5	111.9	87.2	70.3	58.5	52.0	48.1	46.8	46.8
32.5°	1629.0	819.7	131.4	98.9	74.2	59.9	49.4	45.5	41.6	40.3	40.3
35°	1694.0	783.3	118.4	85.9	65.1	50.7	42.9	39.0	36.4	36.4	36.4
37.5°	1768.2	745.5	106.7	75.5	55.9	42.9	36.4	35.1	33.8	32.5	32.5
40°	1848.9	705.2	96.3	66.4	48.1	36.4	31.2	31.2	29.9	29.9	29.9
42.5°	1939.9	670.1	87.2	58.5	41.6	31.2	27.3	27.3	26.0	26.0	26.0
45°	2038.8	637.5	79.4	52.0	36.4	27.3	24.7	23.4	22.1	22.1	22.1
47.5°	2155.9	619.3	72.9	45.5	31.2	23.4	20.8	19.5	18.2	16.9	16.9
50°	2305.6	627.1	66.4	37.7	27.3	19.5	16.9	15.6	14.3	13.0	13.0
52.5°	2424.0	623.2	57.2	32.5	22.1	15.6	13.0	11.7	10.4	9.1	9.1
55°	2509.8	607.6	49.4	27.3	16.9	13.0	10.4	7.8	6.5	6.5	6.5
57.5°	2594.4	592.0	41.6	22.1	13.0	9.1	6.5	5.2	5.2	5.2	5.2
60°	2725.8	569.9	36.4	18.2	10.4	6.5	3.9	3.9	2.6	2.6	2.6
62.5°	2885.8	542.6	29.9	15.6	7.8	5.2	2.6	2.6	0.0	0.0	0.0
65°	3061.5	494.4	24.7	11.7	6.5	3.9	2.6	0.0	0.0	0.0	0.0
67.5°	3021.2	396.8	20.8	7.8	5.2	2.6	1.3	0.0	0.0	0.0	0.0
70°	2672.5	268.0	16.9	6.5	3.9	2.6	1.3	0.0	0.0	0.0	0.0
72.5°	2093.5	158.7	11.7	5.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0
75°	1340.1	79.4	7.8	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	448.9	39.0	5.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	63.8	13.0	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.3	5.2	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	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)