

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: P381183

Luminaire Tested: **PRV-PA2B-730-U-T2R-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381183  
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-PA2B-730-U-T2R-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 970mA LIGHT ENGINES 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: 14201 lumens  
Efficiency: N/A  
Efficacy: 94.0 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

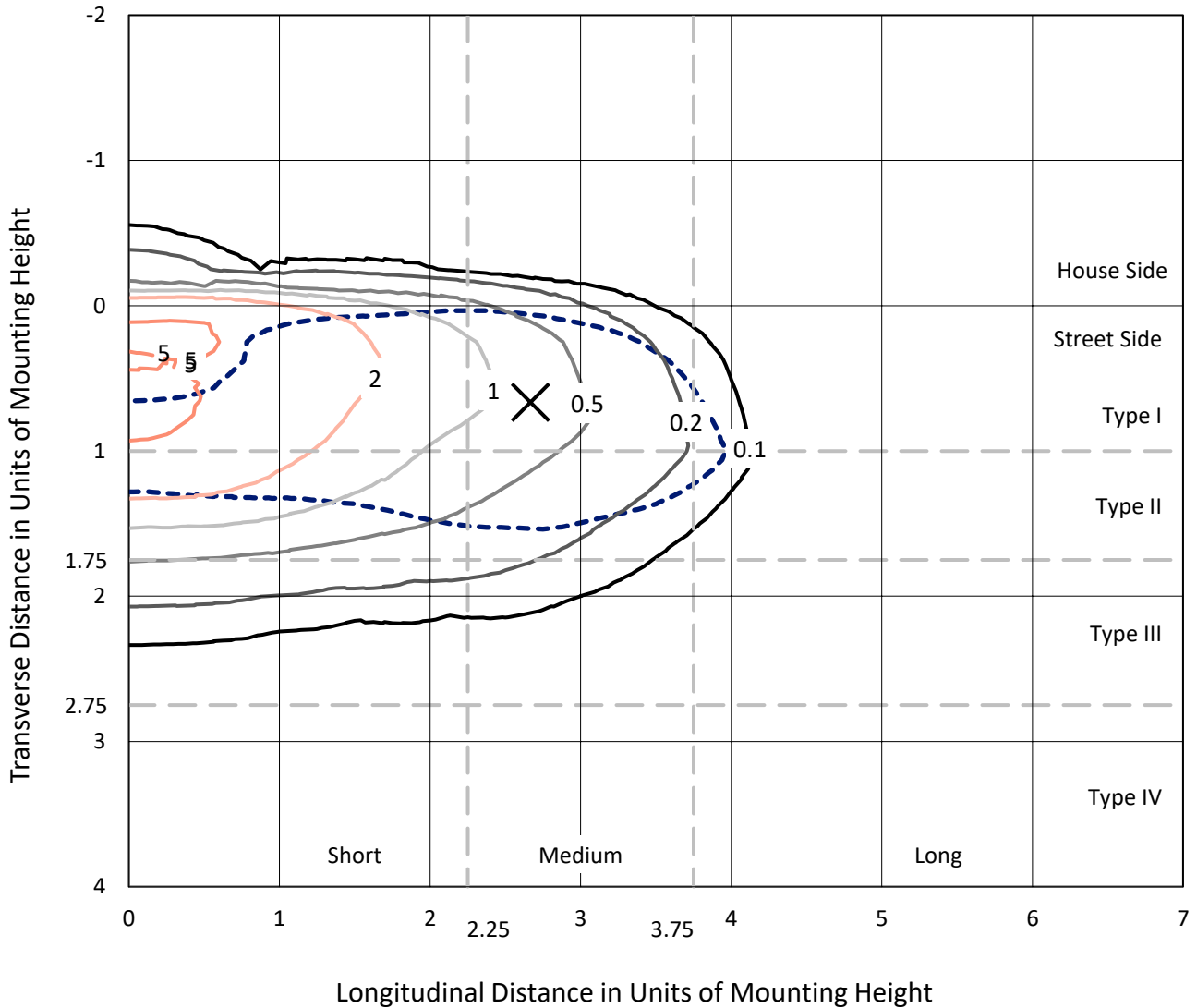
Input Watts (W): 151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P381183  
 CATALOG NUMBER: PRV-PA2B-730-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

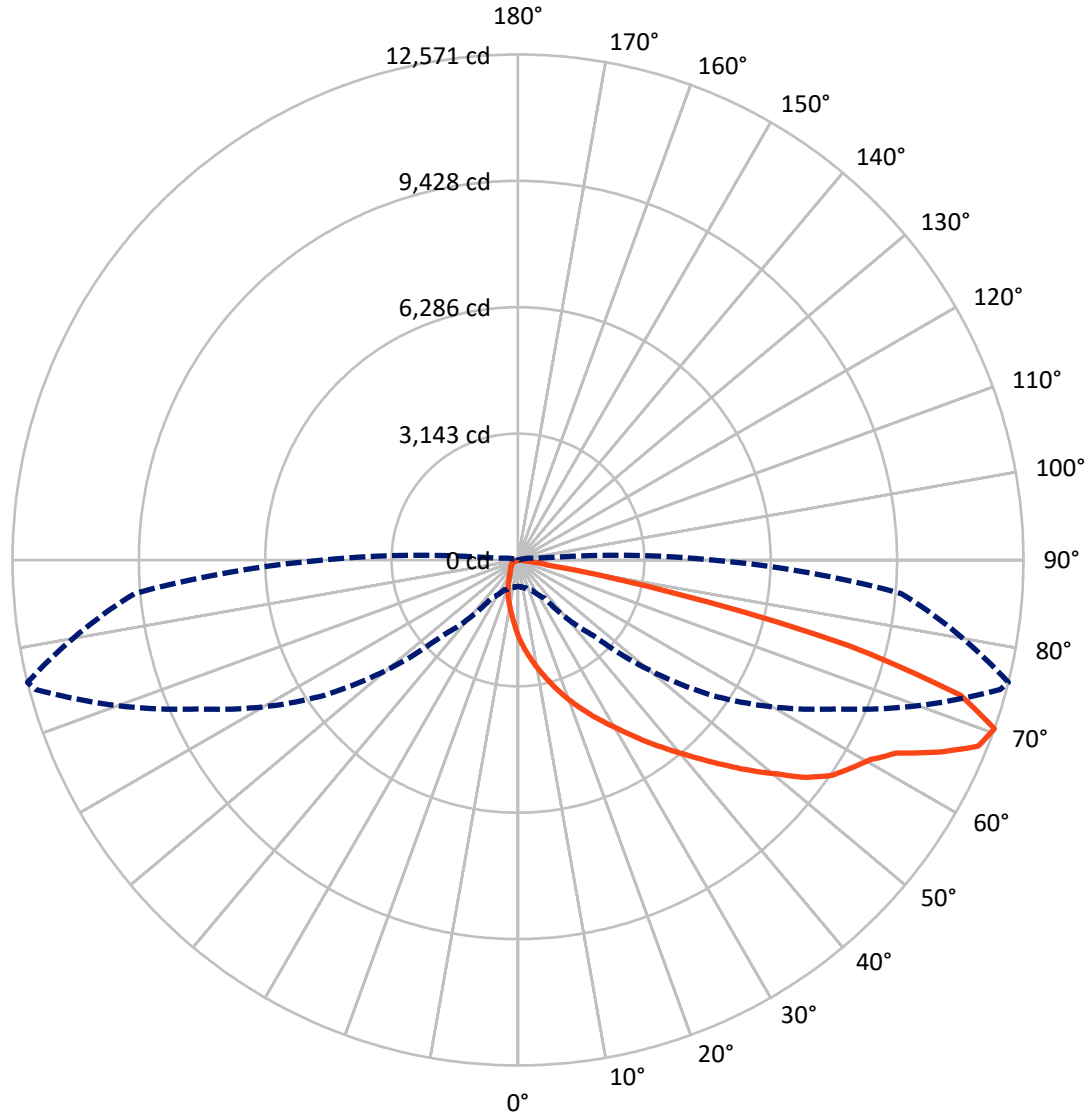
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P381183  
CATALOG NUMBER: PRV-PA2B-730-U-T2R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P381183  
 CATALOG NUMBER: PRV-PA2B-730-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	669.8	0.0	669.8
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	13531.2	0.0	13531.2
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	14201.0	0.0	14201.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.1	1.3
10°-20°	578.0	4.1
20°-30°	1076.4	7.6
30°-40°	1903.9	13.4
40°-50°	2911.5	20.5
50°-60°	3301.0	23.2
60°-70°	2829.7	19.9
70°-80°	1370.6	9.7
80°-90°	50.8	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°	14201.0	100.0
0°-180°	14201.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P381183

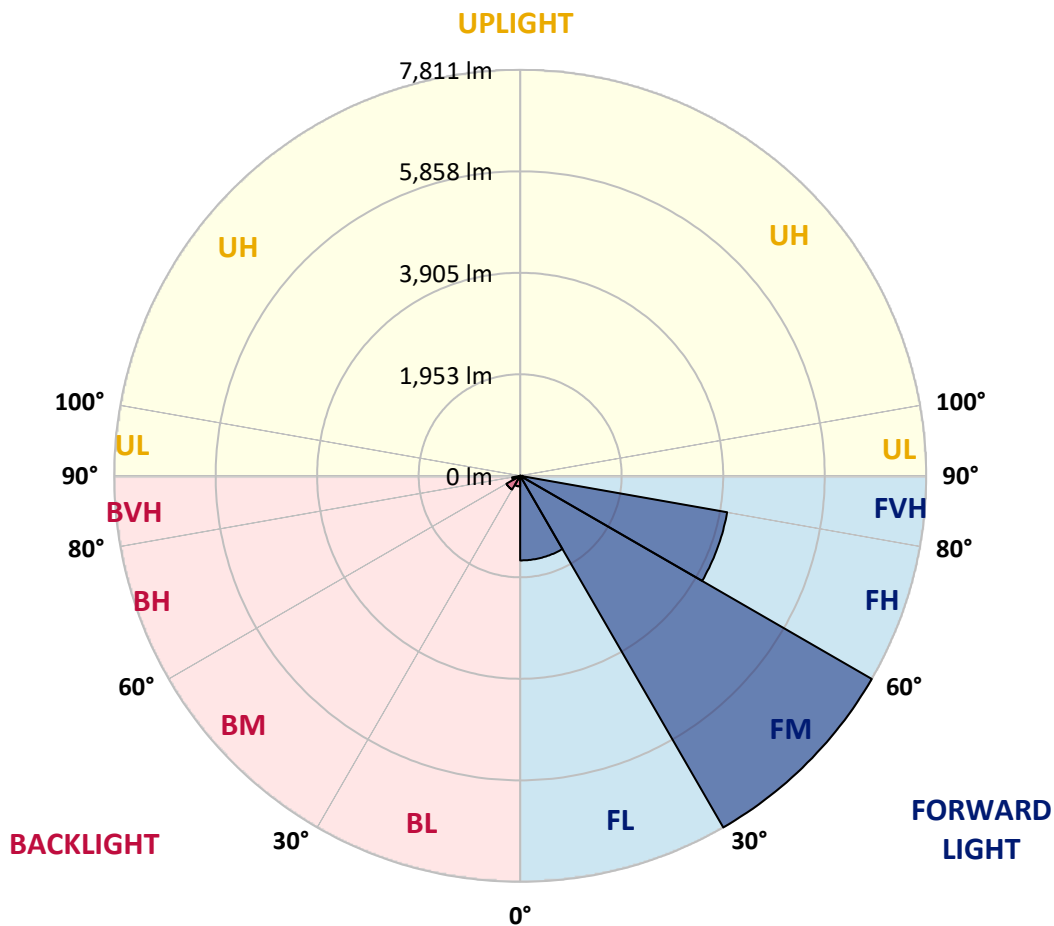
CATALOG NUMBER: PRV-PA2B-730-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.0	11.5			
FM (30°-60°)	7810.7	55.0			
FH (60°-80°)	4042.6	28.5			G2/5000
FVH (80°-90°)	50.0	0.4			G1/100
BL (0°-30°)	205.5	1.4	B1/500		
BM (30°-60°)	305.7	2.2	B1/1000		
BH (60°-80°)	157.7	1.1	B1/500		G1/500
BVH (80°-90°)	0.9	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 II Medium





REPORT NUMBER: P381183

CATALOG NUMBER: PRV-PA2B-730-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9
2.5°	2598.4	2584.2	2570.0	2515.6	2466.0	2421.0	2335.9	2224.8	2125.5	2104.2	1988.4
5°	3052.3	3035.8	3014.5	2960.1	2896.3	2820.6	2695.3	2525.1	2350.1	2312.3	2097.1
7.5°	3359.7	3345.5	3314.7	3288.7	3224.9	3151.6	3012.1	2813.5	2572.4	2525.1	2222.4
10°	3570.1	3560.6	3555.9	3534.6	3487.3	3428.2	3288.7	3080.7	2797.0	2742.6	2354.8
12.5°	3645.7	3645.7	3669.4	3704.9	3711.9	3693.0	3565.4	3357.3	3033.4	2976.7	2510.9
15°	3544.1	3555.9	3607.9	3721.4	3839.6	3917.6	3837.3	3643.4	3293.5	3232.0	2695.3
17.5°	3515.7	3527.5	3563.0	3662.3	3820.7	4028.8	4069.0	3920.0	3539.4	3487.3	2884.4
20°	3596.1	3607.9	3638.7	3723.8	3844.3	4054.8	4222.6	4187.2	3799.4	3745.0	3076.0
22.5°	3787.6	3794.7	3794.7	3860.9	3967.3	4123.3	4319.6	4440.2	4066.6	4007.5	3265.1
25°	4199.0	4184.8	4128.1	4095.0	4163.5	4291.2	4442.5	4662.4	4364.5	4284.1	3468.4
27.5°	4738.1	4785.3	4648.2	4489.8	4437.8	4511.1	4615.1	4858.6	4652.9	4567.8	3652.8
30°	5468.6	5449.7	5270.0	5043.0	4818.4	4792.4	4827.9	5026.5	4941.4	4861.0	3858.5
32.5°	6069.2	6104.6	5915.5	5638.8	5303.1	5144.7	5106.9	5227.5	5248.7	5196.7	4102.1
35°	6686.2	6724.1	6539.6	6232.3	5832.7	5567.9	5459.2	5475.7	5629.4	5563.2	4357.4
37.5°	7239.5	7272.6	7090.5	6776.1	6376.5	6052.6	5896.6	5768.9	5998.2	5939.1	4626.9
40°	7660.3	7665.1	7542.1	7260.8	6882.5	6546.7	6369.4	6118.8	6388.3	6348.1	4908.3
42.5°	7958.2	7967.7	7877.8	7636.7	7286.8	6974.7	6830.5	6532.6	6837.5	6802.1	5234.6
45°	8097.7	8114.3	8104.8	7882.6	7591.8	7322.2	7274.9	6972.3	7329.3	7296.2	5610.5
47.5°	7965.3	7965.3	8085.9	8055.2	7788.0	7608.3	7662.7	7431.0	7863.7	7832.9	5993.5
50°	7414.4	7421.5	7667.4	8019.7	7863.7	7823.5	7993.7	7880.2	8348.3	8367.2	6452.2
52.5°	5967.5	5955.7	6785.5	7461.7	7811.6	7920.4	8298.7	8338.9	8930.0	8986.7	6908.5
55°	4459.1	4452.0	5246.4	6473.4	7447.5	7870.7	8468.9	8747.9	9426.5	9461.9	7248.9
57.5°	3529.9	3511.0	3948.4	5218.0	6624.8	7648.5	8476.0	8825.9	9703.1	9764.5	7579.9
60°	2714.2	2697.7	3023.9	3882.2	5459.2	7057.4	8272.7	8830.7	9970.2	10079.0	8024.4
62.5°	1941.1	1960.0	2210.6	2785.1	4199.0	6222.8	8007.9	8896.9	10445.5	10568.4	8655.7
65°	1309.8	1300.4	1508.4	1896.2	2986.1	5099.8	7601.2	9036.3	11301.3	11516.5	9412.3
67.5°	910.3	917.3	1011.9	1234.2	1896.2	3915.3	6925.0	9114.4	12185.6	12353.5	9941.9
70°	657.3	666.7	718.7	829.9	1158.5	2655.1	5854.0	8757.4	12424.4	12571.0	9573.0
72.5°	432.7	451.6	529.6	588.7	740.0	1662.1	4312.5	7544.5	11395.9	11504.7	8031.5
75°	234.1	238.8	340.5	439.8	527.2	1035.6	2572.4	5088.0	8525.7	8490.2	5296.0
77.5°	182.1	189.1	210.4	314.5	354.6	569.8	1016.6	2298.1	4038.2	3929.5	1806.3
80°	111.1	115.9	146.6	186.8	248.3	331.0	297.9	624.2	820.4	768.4	264.8
82.5°	66.2	70.9	87.5	156.0	196.2	156.0	104.0	151.3	153.7	151.3	66.2
85°	11.8	11.8	61.5	108.8	104.0	44.9	61.5	49.7	44.9	47.3	14.2
87.5°	0.0	0.0	23.6	33.1	47.3	16.6	23.6	11.8	11.8	11.8	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P381183  
 CATALOG NUMBER: PRV-PA2B-730-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9	1900.9
2.5°	1917.4	1837.1	1671.6	1527.3	1383.1	1276.7	1196.3	1113.6	1085.2	1049.7	1030.8
5°	1950.5	1792.1	1463.5	1201.1	978.8	808.6	699.8	633.6	591.1	560.3	553.2
7.5°	2000.2	1756.7	1295.6	941.0	697.5	527.2	437.4	392.5	368.8	354.6	349.9
10°	2059.3	1725.9	1130.1	732.9	491.8	371.2	321.5	302.6	293.2	288.4	286.1
12.5°	2142.1	1714.1	990.6	565.1	371.2	305.0	279.0	267.2	260.1	253.0	250.6
15°	2250.8	1718.8	863.0	437.4	307.4	271.9	250.6	238.8	229.3	222.2	222.2
17.5°	2364.3	1725.9	737.7	354.6	279.0	248.3	224.6	208.1	201.0	193.9	191.5
20°	2470.7	1723.6	617.1	302.6	253.0	222.2	198.6	182.1	170.2	163.1	163.1
22.5°	2572.4	1709.4	503.6	271.9	231.7	196.2	170.2	153.7	144.2	137.1	137.1
25°	2681.1	1681.0	411.4	248.3	205.7	172.6	146.6	130.0	122.9	115.9	115.9
27.5°	2766.2	1633.7	335.7	227.0	182.1	149.0	125.3	111.1	104.0	99.3	99.3
30°	2858.4	1565.2	279.0	203.3	158.4	127.7	106.4	94.6	87.5	85.1	85.1
32.5°	2960.1	1489.5	238.8	179.7	134.8	108.8	89.8	82.8	75.7	73.3	73.3
35°	3078.3	1423.3	215.2	156.0	118.2	92.2	78.0	70.9	66.2	66.2	66.2
37.5°	3213.1	1354.7	193.9	137.1	101.7	78.0	66.2	63.8	61.5	59.1	59.1
40°	3359.7	1281.4	175.0	120.6	87.5	66.2	56.7	56.7	54.4	54.4	54.4
42.5°	3525.2	1217.6	158.4	106.4	75.7	56.7	49.7	49.7	47.3	47.3	47.3
45°	3704.9	1158.5	144.2	94.6	66.2	49.7	44.9	42.6	40.2	40.2	40.2
47.5°	3917.6	1125.4	132.4	82.8	56.7	42.6	37.8	35.5	33.1	30.7	30.7
50°	4189.5	1139.6	120.6	68.6	49.7	35.5	30.7	28.4	26.0	23.6	23.6
52.5°	4404.7	1132.5	104.0	59.1	40.2	28.4	23.6	21.3	18.9	16.6	16.6
55°	4560.7	1104.1	89.8	49.7	30.7	23.6	18.9	14.2	11.8	11.8	11.8
57.5°	4714.4	1075.8	75.7	40.2	23.6	16.6	11.8	9.5	9.5	9.5	9.5
60°	4953.2	1035.6	66.2	33.1	18.9	11.8	7.1	7.1	4.7	4.7	4.7
62.5°	5244.0	985.9	54.4	28.4	14.2	9.5	4.7	4.7	0.0	0.0	0.0
65°	5563.2	898.4	44.9	21.3	11.8	7.1	4.7	0.0	0.0	0.0	0.0
67.5°	5489.9	721.1	37.8	14.2	9.5	4.7	2.4	0.0	0.0	0.0	0.0
70°	4856.3	487.0	30.7	11.8	7.1	4.7	2.4	0.0	0.0	0.0	0.0
72.5°	3804.2	288.4	21.3	9.5	4.7	2.4	0.0	0.0	0.0	0.0	0.0
75°	2435.2	144.2	14.2	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	815.7	70.9	9.5	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	115.9	23.6	4.7	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.0	9.5	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.5	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	2.4	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)