

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: P381376

Luminaire Tested: **PRV-XL-PA3A-730-U-T2U-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381376  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-PA3A-730-U-T2U-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

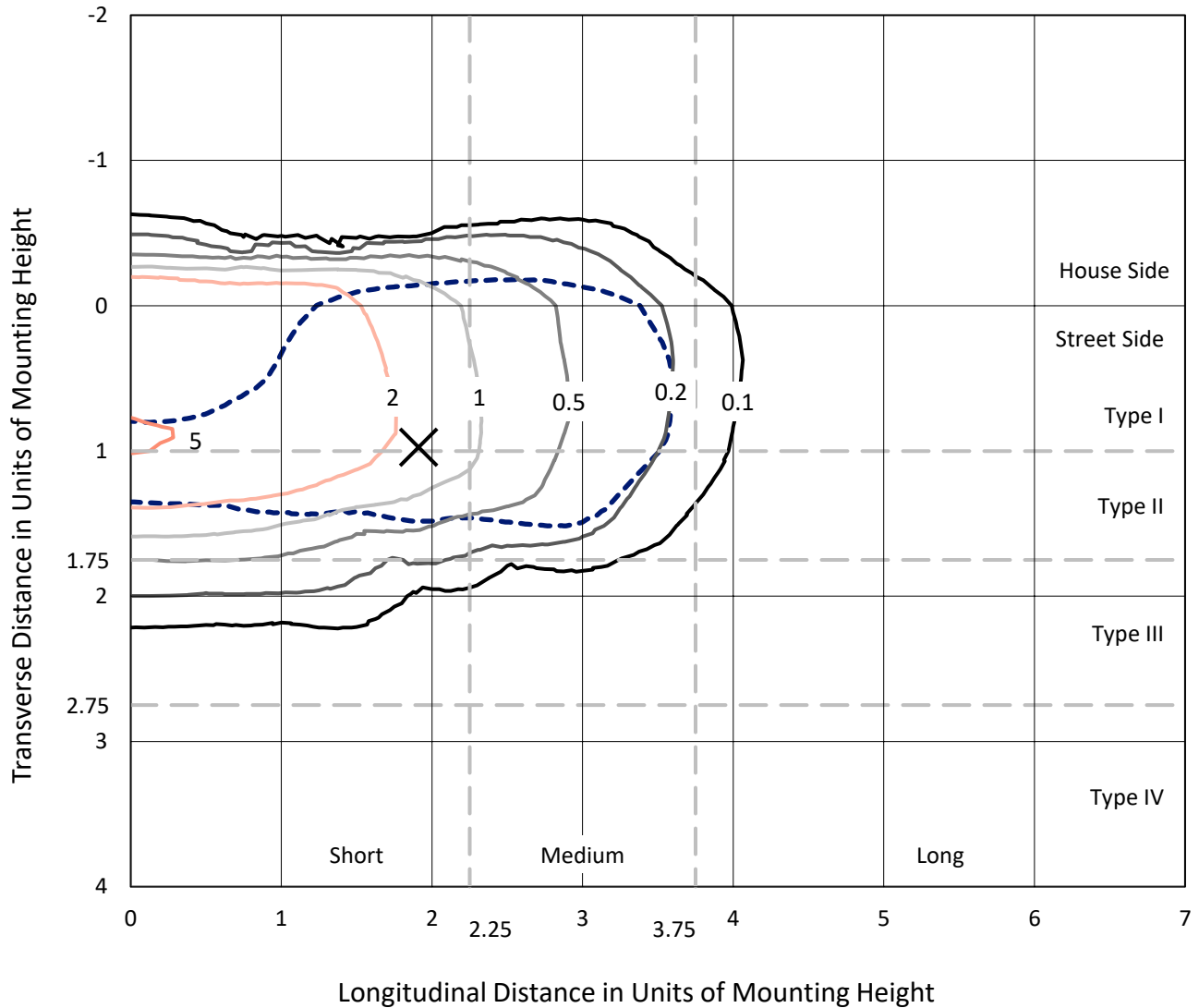
Lumens per Lamp: N/A  
Luminaire Lumens: 15680 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 172  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

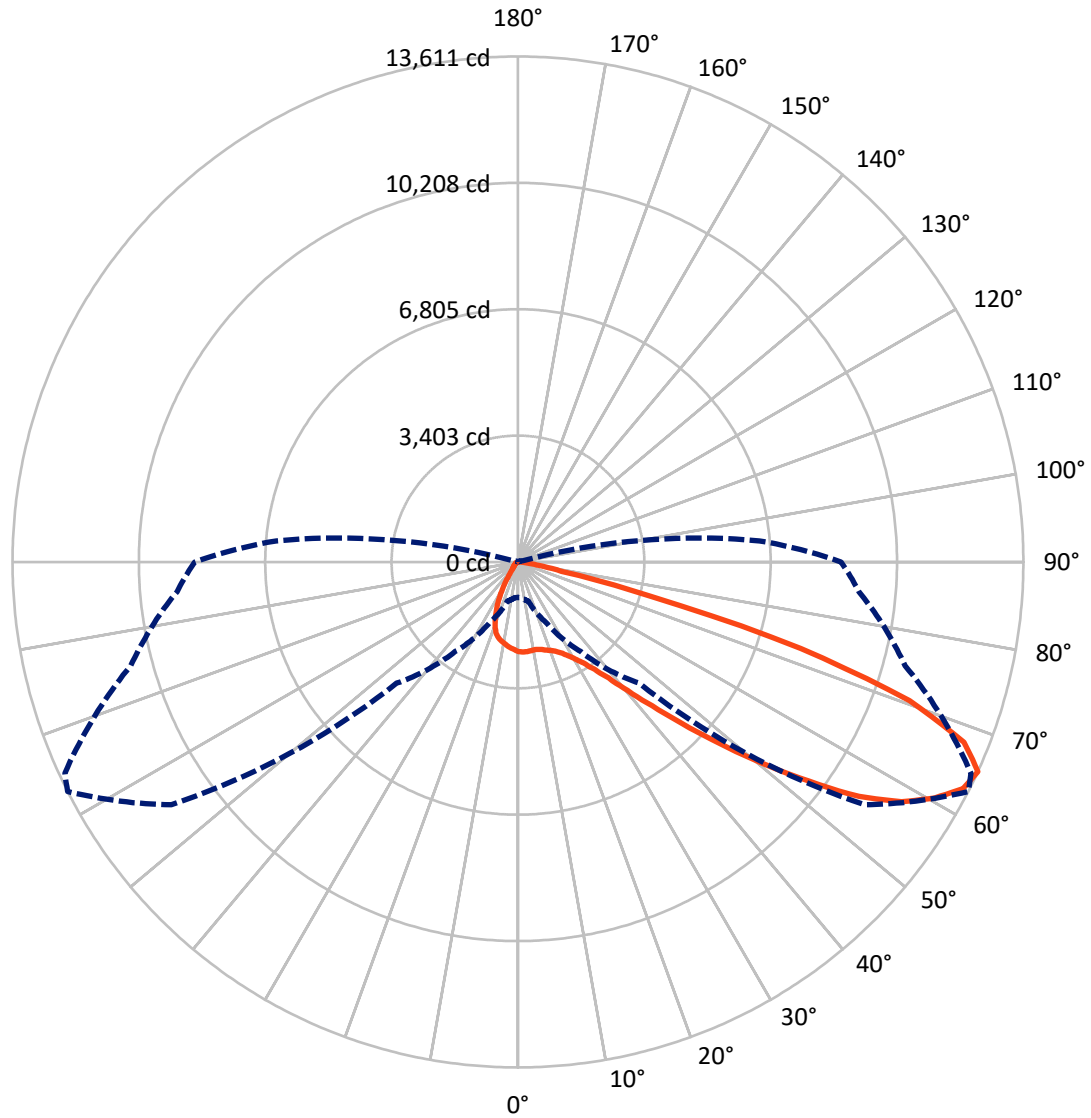
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2018.0	0.0	2018.0
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	13662.0	0.0	13662.0
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	15680.0	0.0	15680.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.4	1.4
10°-20°	543.7	3.5
20°-30°	805.9	5.1
30°-40°	1496.4	9.5
40°-50°	3170.0	20.2
50°-60°	4383.2	28.0
60°-70°	3508.9	22.4
70°-80°	1457.9	9.3
80°-90°	93.6	0.6
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°	15680.0	100.0
0°-180°	15680.0	100.0

**Coefficient of Utilization**

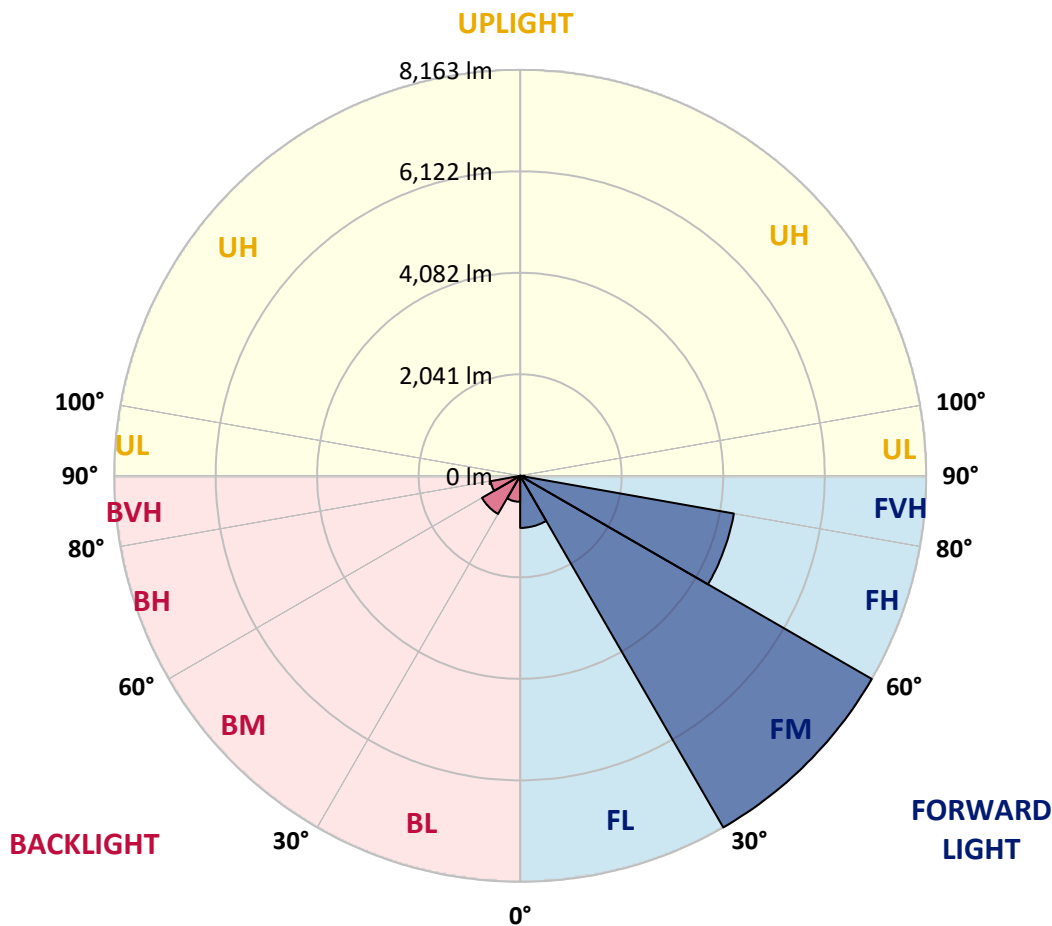


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.1	6.7			
FM (30°-60°)	8163.1	52.1			
FH (60°-80°)	4362.5	27.8			G2/5000
FVH (80°-90°)	89.3	0.6			G1/100
BL (0°-30°)	523.0	3.3	B2/1000		
BM (30°-60°)	886.5	5.7	B1/1000		
BH (60°-80°)	604.3	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5
2.5°	2457.0	2451.0	2445.1	2442.2	2442.2	2439.2	2427.4	2424.4	2418.5	2412.6	2406.6
5°	2433.3	2424.4	2421.4	2424.4	2427.4	2433.3	2427.4	2427.4	2421.4	2415.5	2403.7
7.5°	2374.1	2368.1	2371.1	2380.0	2383.0	2403.7	2406.6	2415.5	2415.5	2409.6	2400.7
10°	2303.0	2300.1	2300.1	2314.9	2329.7	2359.3	2380.0	2403.7	2406.6	2406.6	2391.8
12.5°	2249.7	2246.8	2255.7	2273.4	2303.0	2341.5	2377.0	2412.6	2418.5	2421.4	2397.8
15°	2217.2	2217.2	2229.0	2264.5	2306.0	2359.3	2400.7	2448.1	2454.0	2451.0	2418.5
17.5°	2187.6	2190.5	2214.2	2273.4	2320.8	2391.8	2442.2	2495.4	2498.4	2495.4	2442.2
20°	2175.7	2181.7	2217.2	2294.1	2347.4	2427.4	2492.5	2545.8	2548.7	2536.9	2465.8
22.5°	2208.3	2211.3	2255.7	2338.5	2388.9	2477.7	2560.6	2610.9	2613.8	2596.1	2501.4
25°	2320.8	2320.8	2359.3	2430.3	2474.7	2563.5	2652.3	2711.5	2711.5	2690.8	2581.3
27.5°	2584.2	2560.6	2551.7	2572.4	2587.2	2681.9	2776.7	2850.7	2847.7	2818.1	2684.9
30°	3093.4	3034.2	2939.5	2832.9	2779.6	2844.7	2933.5	3028.3	3025.3	2977.9	2812.2
32.5°	3948.9	3863.0	3638.1	3356.9	3128.9	3054.9	3137.8	3241.4	3244.4	3188.1	3016.4
35°	5147.8	5011.6	4609.0	4218.3	3697.3	3416.1	3439.7	3552.2	3587.7	3558.1	3359.8
37.5°	6302.2	6177.9	5793.1	5251.4	4543.9	3969.6	3869.0	3966.7	4008.1	4008.1	3797.9
40°	7465.6	7320.5	6980.1	6435.4	5689.5	4834.0	4472.8	4552.8	4597.2	4606.1	4330.8
42.5°	8398.0	8303.3	8042.8	7619.5	6920.9	6349.6	5343.1	5298.7	5340.2	5307.6	4949.4
45°	9043.4	8969.4	8788.8	8628.9	8288.5	8001.4	6506.5	6207.5	6234.2	6121.7	5645.1
47.5°	9176.6	9093.7	9055.2	9277.2	9520.0	9591.0	7936.3	7288.0	7261.3	7012.7	6367.4
50°	8596.4	8605.3	8747.4	9380.8	10393.2	11032.6	9594.0	8507.6	8409.9	7856.3	7039.3
52.5°	7344.2	7486.3	7844.5	8871.7	10659.6	12080.5	11251.7	9801.2	9650.2	8676.3	7542.6
55°	5745.7	5929.3	6518.3	7699.4	10103.1	12548.2	12648.9	11145.1	10801.7	9292.0	7933.3
57.5°	4271.5	4327.8	5014.6	6092.1	8785.8	12089.4	13365.2	12181.2	11740.1	9783.4	8321.1
60°	2661.2	2696.7	3422.0	4638.6	6654.5	10393.2	13365.2	12894.6	12474.2	10224.5	8676.3
62.5°	1654.7	1666.6	1938.9	3179.2	4523.2	7708.3	12811.7	13448.1	13110.7	10541.2	8981.2
65°	953.2	965.0	1092.3	1796.8	2942.4	4614.9	11396.7	13610.9	13460.0	10792.8	9218.0
67.5°	695.6	701.6	751.9	1009.4	1924.1	2371.1	8560.9	12956.7	13146.2	10917.2	9212.1
70°	603.9	612.8	677.9	787.4	1388.3	1456.4	4357.4	11189.5	11719.4	10739.6	8936.8
72.5°	464.7	476.6	574.3	740.0	1018.3	1047.9	1577.8	7962.9	8765.1	9629.5	8182.0
75°	319.7	331.5	429.2	609.8	840.7	784.4	867.3	3664.7	4623.8	6459.1	6228.2
77.5°	204.3	207.2	269.4	444.0	725.2	556.5	595.0	1195.9	1678.4	2921.7	2939.5
80°	136.2	139.1	165.8	287.1	497.3	515.1	367.1	553.6	606.8	852.5	592.0
82.5°	82.9	82.9	112.5	180.6	301.9	426.3	239.8	290.1	310.8	328.6	153.9
85°	32.6	32.6	68.1	118.4	189.5	198.3	151.0	168.7	177.6	192.4	71.0
87.5°	8.9	8.9	38.5	65.1	82.9	91.8	91.8	82.9	88.8	109.5	35.5
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: P381376

CATALOG NUMBER: PRV-XL-PA3A-730-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5	2415.5
2.5°	2403.7	2394.8	2383.0	2371.1	2359.3	2350.4	2341.5	2341.5	2335.6	2326.7	2320.8
5°	2397.8	2383.0	2356.3	2335.6	2303.0	2279.3	2261.6	2246.8	2237.9	2217.2	2214.2
7.5°	2388.9	2371.1	2332.6	2291.2	2237.9	2196.5	2155.0	2125.4	2095.8	2072.1	2066.2
10°	2374.1	2353.3	2297.1	2237.9	2163.9	2086.9	1989.2	1876.8	1773.2	1713.9	1696.2
12.5°	2374.1	2347.4	2273.4	2193.5	2086.9	1897.5	1648.8	1400.2	1207.8	1121.9	1098.2
15°	2388.9	2353.3	2255.7	2146.1	1947.8	1563.0	1160.4	831.8	621.6	556.5	541.7
17.5°	2403.7	2353.3	2229.0	2081.0	1693.2	1133.8	660.1	438.1	370.0	355.2	355.2
20°	2409.6	2347.4	2193.5	1959.6	1352.8	704.5	393.7	328.6	301.9	293.1	293.1
22.5°	2433.3	2350.4	2166.9	1785.0	982.8	414.4	310.8	275.3	248.7	239.8	239.8
25°	2492.5	2385.9	2172.8	1563.0	630.5	313.8	263.5	227.9	201.3	189.5	189.5
27.5°	2587.2	2465.8	2205.3	1305.4	396.7	269.4	222.0	183.5	162.8	151.0	151.0
30°	2693.8	2554.6	2220.1	1009.4	296.0	227.9	180.6	145.0	130.2	121.4	118.4
32.5°	2880.3	2708.6	2208.3	692.7	242.7	192.4	145.0	115.4	103.6	100.6	100.6
35°	3179.2	2977.9	2184.6	435.1	201.3	153.9	115.4	94.7	85.8	82.9	79.9
37.5°	3584.8	3371.7	2113.6	287.1	165.8	121.4	94.7	79.9	71.0	68.1	68.1
40°	4079.1	3821.6	1977.4	219.1	142.1	97.7	79.9	68.1	62.2	59.2	59.2
42.5°	4644.5	4321.9	1761.3	189.5	118.4	82.9	68.1	56.2	53.3	50.3	50.3
45°	5263.2	4845.8	1462.3	168.7	100.6	68.1	56.2	50.3	44.4	44.4	41.4
47.5°	5920.4	5372.7	1124.9	148.0	85.8	59.2	50.3	41.4	38.5	35.5	35.5
50°	6553.9	5843.4	790.4	127.3	71.0	50.3	41.4	35.5	32.6	29.6	29.6
52.5°	7000.8	6127.6	559.5	109.5	59.2	44.4	32.6	26.6	23.7	23.7	23.7
55°	7359.0	6305.2	390.7	91.8	50.3	38.5	26.6	20.7	20.7	17.8	17.8
57.5°	7696.5	6420.6	287.1	77.0	41.4	29.6	20.7	14.8	14.8	11.8	11.8
60°	8045.8	6482.8	219.1	62.2	35.5	23.7	14.8	11.8	8.9	8.9	8.9
62.5°	8398.0	6521.3	168.7	50.3	29.6	17.8	11.8	8.9	5.9	3.0	3.0
65°	8705.9	6533.1	130.2	38.5	23.7	11.8	8.9	3.0	0.0	0.0	0.0
67.5°	8797.7	6397.0	100.6	29.6	17.8	8.9	5.9	0.0	0.0	0.0	0.0
70°	8549.0	6035.8	77.0	23.7	14.8	5.9	3.0	0.0	0.0	0.0	0.0
72.5°	7587.0	5061.9	59.2	14.8	11.8	5.9	3.0	0.0	0.0	0.0	0.0
75°	5429.0	2699.7	41.4	11.8	8.9	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	2498.4	1044.9	29.6	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
80°	488.4	260.5	11.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	112.5	44.4	5.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.5	14.8	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	5.9	3.0	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)