

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: P381199

Luminaire Tested: **PRV-PA2B-750-U-T2R-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381199  
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-750-U-T2R-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 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: 15594 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

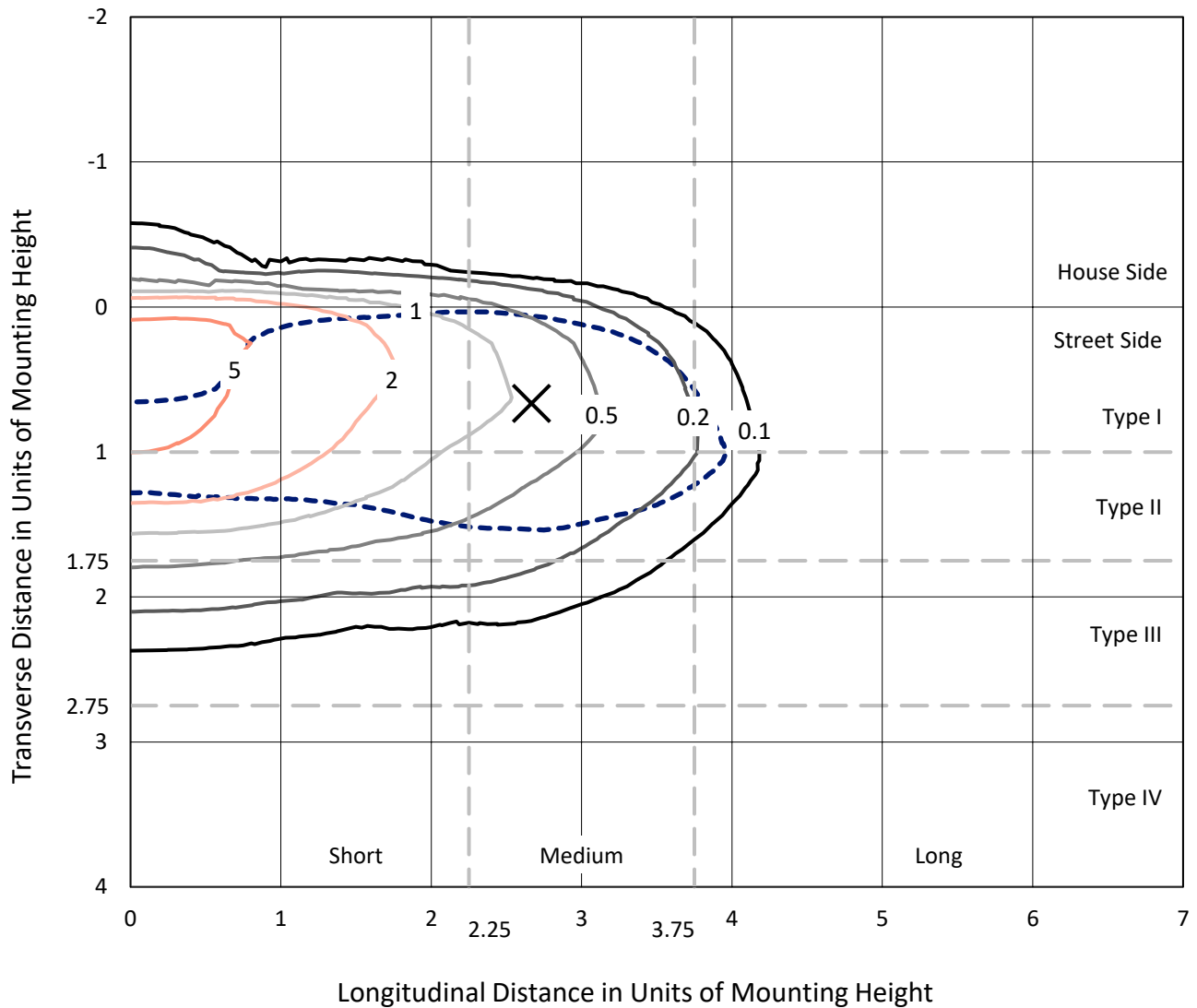
Input Watts (W): 151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

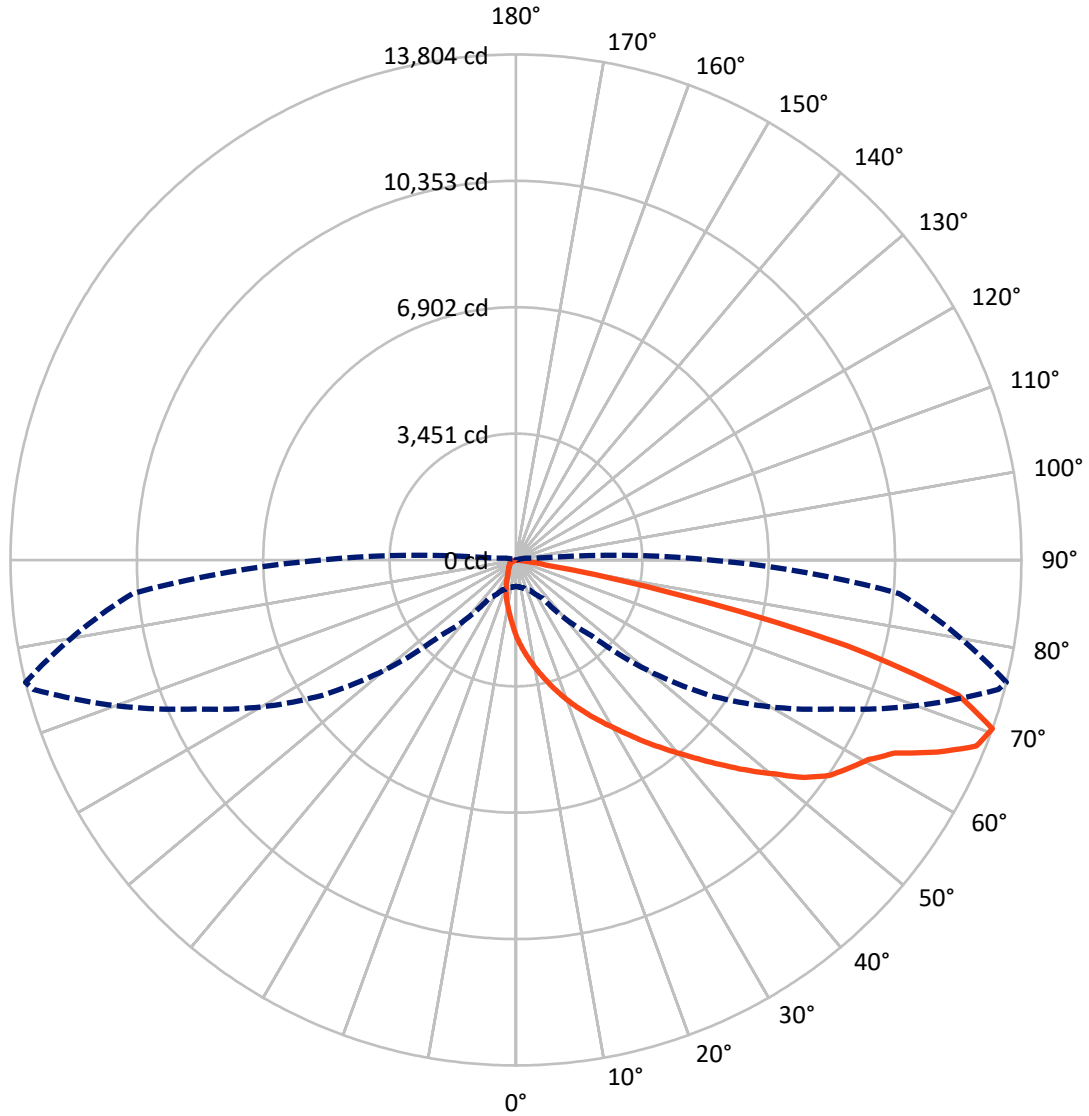
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	735.5	0.0	735.5
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	14858.5	0.0	14858.5
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	15594.0	0.0	15594.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.6	1.3
10°-20°	634.7	4.1
20°-30°	1182.0	7.6
30°-40°	2090.7	13.4
40°-50°	3197.1	20.5
50°-60°	3624.8	23.2
60°-70°	3107.3	19.9
70°-80°	1505.0	9.7
80°-90°	55.8	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°	15594.0	100.0
0°-180°	15594.0	100.0

**Coefficient of Utilization**



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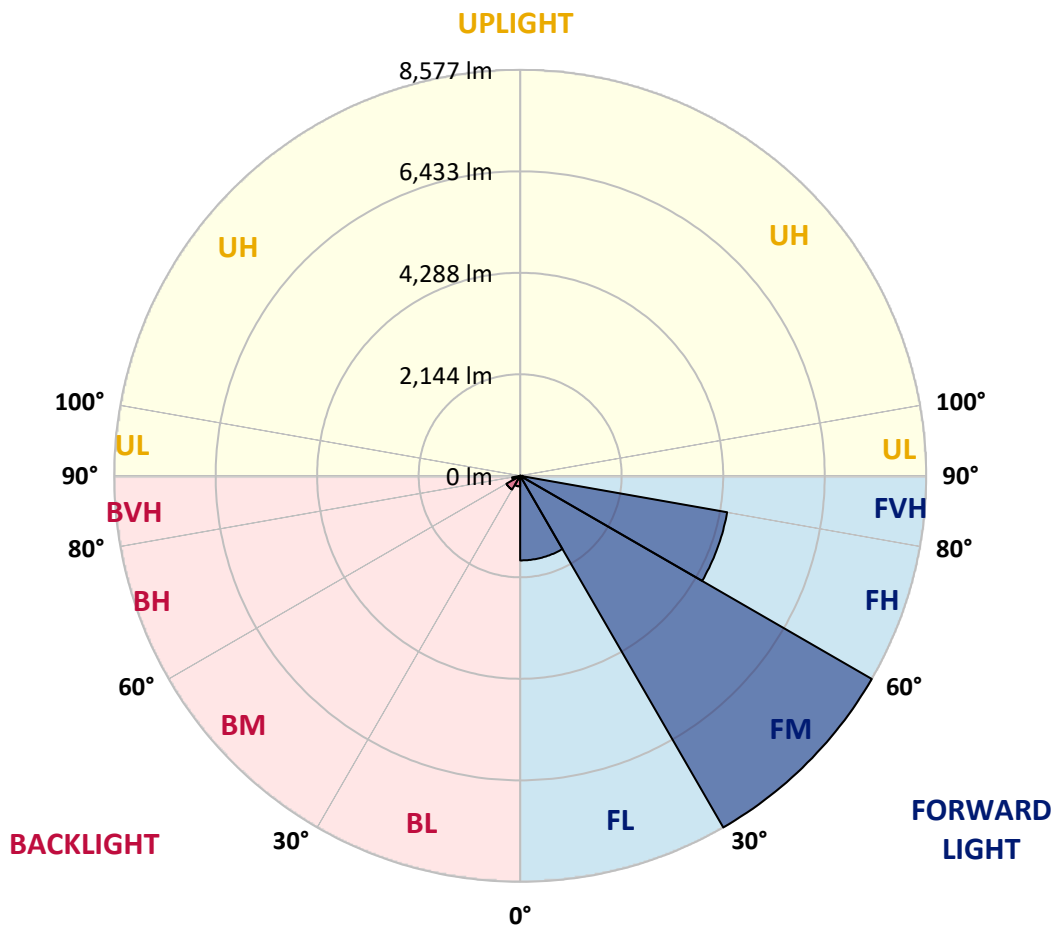
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.7	11.5			
FM (30°-60°)	8576.8	55.0			
FH (60°-80°)	4439.2	28.5			G2/5000
FVH (80°-90°)	54.9	0.4			G1/100
BL (0°-30°)	225.6	1.4	B1/500		
BM (30°-60°)	335.7	2.2	B1/1000		
BH (60°-80°)	173.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.0	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°	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4
2.5°	2853.2	2837.7	2822.1	2762.4	2707.9	2658.5	2565.1	2443.0	2334.0	2310.6	2183.4
5°	3351.7	3333.5	3310.2	3250.5	3180.4	3097.3	2959.7	2772.8	2580.6	2539.1	2302.8
7.5°	3689.2	3673.6	3639.9	3611.3	3541.2	3460.8	3307.6	3089.5	2824.7	2772.8	2440.4
10°	3920.3	3909.9	3904.7	3881.3	3829.4	3764.5	3611.3	3382.9	3071.3	3011.6	2585.8
12.5°	4003.4	4003.4	4029.3	4068.3	4076.1	4055.3	3915.1	3686.6	3330.9	3268.6	2757.2
15°	3891.7	3904.7	3961.8	4086.4	4216.3	4301.9	4213.7	4000.8	3616.5	3549.0	2959.7
17.5°	3860.6	3873.6	3912.5	4021.5	4195.5	4424.0	4468.1	4304.5	3886.5	3829.4	3167.4
20°	3948.8	3961.8	3995.6	4089.0	4221.4	4452.5	4636.8	4597.9	4172.1	4112.4	3377.7
22.5°	4159.1	4166.9	4166.9	4239.6	4356.4	4527.8	4743.3	4875.7	4465.5	4400.6	3585.4
25°	4610.9	4595.3	4533.0	4496.6	4571.9	4712.1	4878.3	5119.7	4792.6	4704.3	3808.6
27.5°	5202.8	5254.7	5104.2	4930.2	4873.1	4953.6	5067.8	5335.2	5109.4	5015.9	4011.2
30°	6005.0	5984.3	5787.0	5537.7	5291.1	5262.5	5301.5	5519.6	5426.1	5337.8	4237.0
32.5°	6664.5	6703.4	6495.7	6192.0	5823.3	5649.4	5607.8	5740.2	5763.6	5706.5	4504.4
35°	7342.1	7383.6	7181.1	6843.6	6404.9	6114.1	5994.7	6012.8	6181.6	6108.9	4784.8
37.5°	7949.6	7986.0	7786.0	7440.8	7002.0	6646.3	6475.0	6334.8	6586.6	6521.7	5080.8
40°	8411.7	8416.9	8281.9	7973.0	7557.6	7188.9	6994.2	6719.0	7015.0	6970.8	5389.7
42.5°	8738.9	8749.2	8650.6	8385.8	8001.5	7658.8	7500.5	7173.3	7508.3	7469.3	5748.0
45°	8892.0	8910.2	8899.8	8655.8	8336.4	8040.5	7988.6	7656.2	8048.3	8011.9	6160.8
47.5°	8746.6	8746.6	8879.1	8845.3	8551.9	8354.6	8414.3	8159.9	8635.0	8601.3	6581.4
50°	8141.7	8149.5	8419.5	8806.4	8635.0	8590.9	8777.8	8653.2	9167.2	9188.0	7085.1
52.5°	6552.8	6539.9	7451.1	8193.7	8577.9	8697.3	9112.7	9156.9	9805.9	9868.2	7586.1
55°	4896.5	4888.7	5761.0	7108.4	8178.1	8642.8	9299.6	9606.0	10351.1	10390.1	7960.0
57.5°	3876.1	3855.4	4335.7	5729.8	7274.6	8398.8	9307.4	9691.7	10654.9	10722.4	8323.5
60°	2980.5	2962.3	3320.6	4263.0	5994.7	7749.7	9084.2	9696.9	10948.2	11067.7	8811.6
62.5°	2131.5	2152.3	2427.5	3058.3	4610.9	6833.2	8793.4	9769.6	11470.1	11605.1	9504.7
65°	1438.3	1427.9	1656.4	2082.2	3279.0	5600.0	8346.8	9922.7	12409.9	12646.2	10335.5
67.5°	999.5	1007.3	1111.2	1355.2	2082.2	4299.3	7604.3	10008.4	13380.9	13565.2	10917.1
70°	721.7	732.1	789.2	911.3	1272.1	2915.5	6428.2	9616.4	13643.1	13804.1	10512.1
72.5°	475.1	495.9	581.6	646.5	812.6	1825.1	4735.5	8284.5	12513.8	12633.2	8819.3
75°	257.0	262.2	373.9	482.9	579.0	1137.1	2824.7	5587.1	9362.0	9323.0	5815.5
77.5°	199.9	207.7	231.1	345.3	389.4	625.7	1116.4	2523.5	4434.3	4314.9	1983.5
80°	122.0	127.2	161.0	205.1	272.6	363.5	327.1	685.4	900.9	843.8	290.8
82.5°	72.7	77.9	96.1	171.4	215.5	171.4	114.2	166.2	168.8	166.2	72.7
85°	13.0	13.0	67.5	119.4	114.2	49.3	67.5	54.5	49.3	51.9	15.6
87.5°	0.0	0.0	26.0	36.3	51.9	18.2	26.0	13.0	13.0	13.0	7.8
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°	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4	2087.4
2.5°	2105.5	2017.3	1835.5	1677.2	1518.8	1402.0	1313.7	1222.8	1191.7	1152.7	1131.9
5°	2141.9	1967.9	1607.1	1318.9	1074.8	887.9	768.5	695.8	649.1	615.3	607.5
7.5°	2196.4	1929.0	1422.7	1033.3	765.9	579.0	480.3	431.0	405.0	389.4	384.2
10°	2261.3	1895.2	1241.0	804.8	540.0	407.6	353.1	332.3	321.9	316.7	314.1
12.5°	2352.2	1882.3	1087.8	620.5	407.6	334.9	306.4	293.4	285.6	277.8	275.2
15°	2471.6	1887.4	947.6	480.3	337.5	298.6	275.2	262.2	251.8	244.0	244.0
17.5°	2596.2	1895.2	810.0	389.4	306.4	272.6	246.6	228.5	220.7	212.9	210.3
20°	2713.0	1892.6	677.6	332.3	277.8	244.0	218.1	199.9	186.9	179.1	179.1
22.5°	2824.7	1877.1	553.0	298.6	254.4	215.5	186.9	168.8	158.4	150.6	150.6
25°	2944.1	1845.9	451.7	272.6	225.9	189.5	161.0	142.8	135.0	127.2	127.2
27.5°	3037.6	1794.0	368.7	249.2	199.9	163.6	137.6	122.0	114.2	109.0	109.0
30°	3138.8	1718.7	306.4	223.3	173.9	140.2	116.8	103.8	96.1	93.5	93.5
32.5°	3250.5	1635.6	262.2	197.3	148.0	119.4	98.7	90.9	83.1	80.5	80.5
35°	3380.3	1562.9	236.3	171.4	129.8	101.3	85.7	77.9	72.7	72.7	72.7
37.5°	3528.3	1487.6	212.9	150.6	111.6	85.7	72.7	70.1	67.5	64.9	64.9
40°	3689.2	1407.1	192.1	132.4	96.1	72.7	62.3	62.3	59.7	59.7	59.7
42.5°	3871.0	1337.1	173.9	116.8	83.1	62.3	54.5	54.5	51.9	51.9	51.9
45°	4068.3	1272.1	158.4	103.8	72.7	54.5	49.3	46.7	44.1	44.1	44.1
47.5°	4301.9	1235.8	145.4	90.9	62.3	46.7	41.5	38.9	36.3	33.8	33.8
50°	4600.5	1251.4	132.4	75.3	54.5	38.9	33.8	31.2	28.6	26.0	26.0
52.5°	4836.7	1243.6	114.2	64.9	44.1	31.2	26.0	23.4	20.8	18.2	18.2
55°	5008.1	1212.4	98.7	54.5	33.8	26.0	20.8	15.6	13.0	13.0	13.0
57.5°	5176.9	1181.3	83.1	44.1	26.0	18.2	13.0	10.4	10.4	10.4	10.4
60°	5439.1	1137.1	72.7	36.3	20.8	13.0	7.8	7.8	5.2	5.2	5.2
62.5°	5758.4	1082.6	59.7	31.2	15.6	10.4	5.2	5.2	0.0	0.0	0.0
65°	6108.9	986.6	49.3	23.4	13.0	7.8	5.2	0.0	0.0	0.0	0.0
67.5°	6028.4	791.8	41.5	15.6	10.4	5.2	2.6	0.0	0.0	0.0	0.0
70°	5332.6	534.8	33.8	13.0	7.8	5.2	2.6	0.0	0.0	0.0	0.0
72.5°	4177.3	316.7	23.4	10.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0
75°	2674.1	158.4	15.6	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	895.7	77.9	10.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	127.2	26.0	5.2	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.6	10.4	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	2.6	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)