

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: P381374

Luminaire Tested: **PRV-PA2A-730-U-T2U-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381374
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-PA2A-730-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 720mA 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: 10029 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

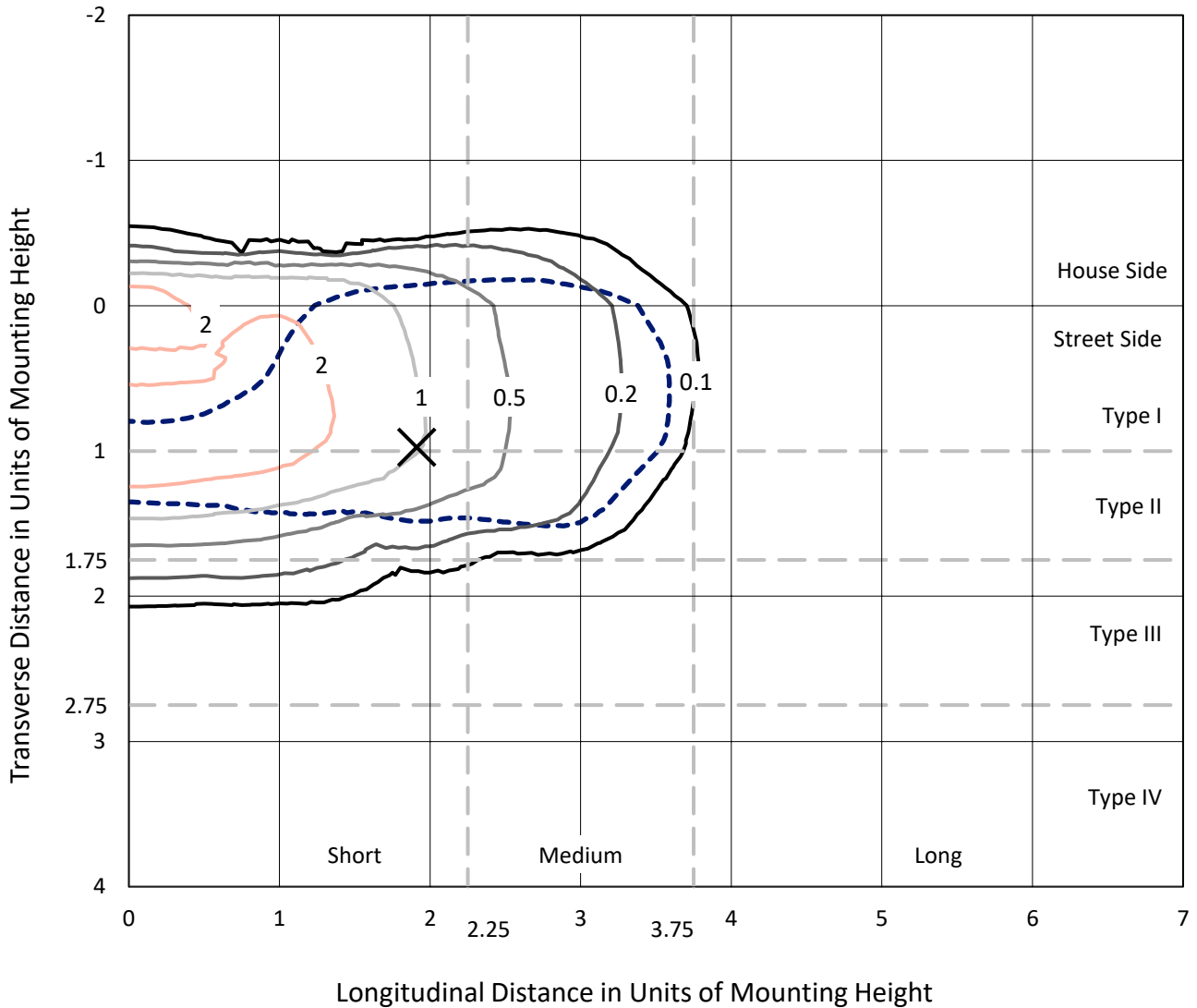
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

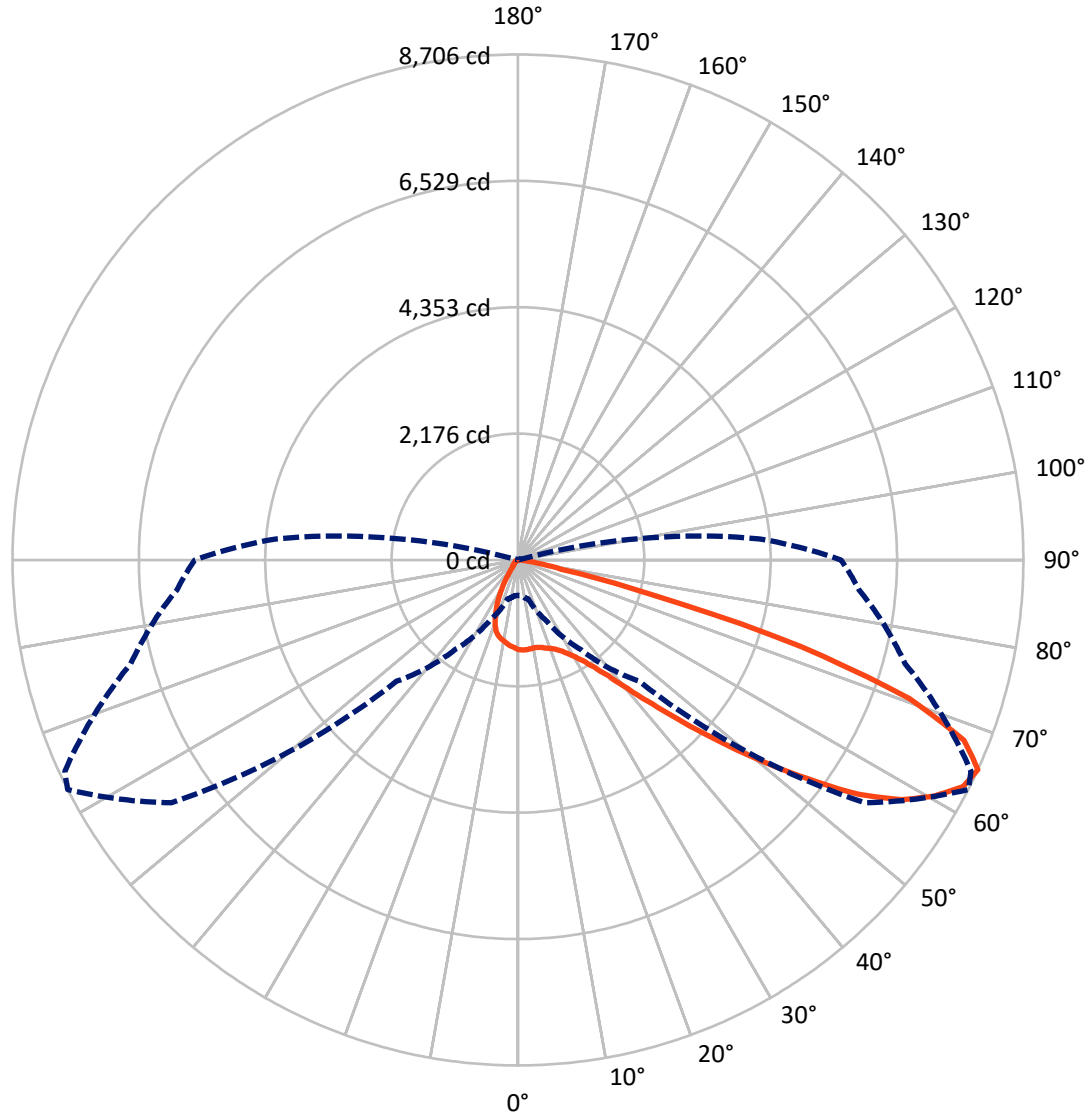
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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
House Side	Lumens	1290.7	0.0	1290.7
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	8738.3	0.0	8738.3
	% Fixture	87.1	0.0	87.1
Total	Lumens	10029.0	0.0	10029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.4
10°-20°	347.8	3.5
20°-30°	515.5	5.1
30°-40°	957.1	9.5
40°-50°	2027.5	20.2
50°-60°	2803.5	28.0
60°-70°	2244.3	22.4
70°-80°	932.5	9.3
80°-90°	59.9	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°	10029.0	100.0
0°-180°	10029.0	100.0

Coefficient of Utilization



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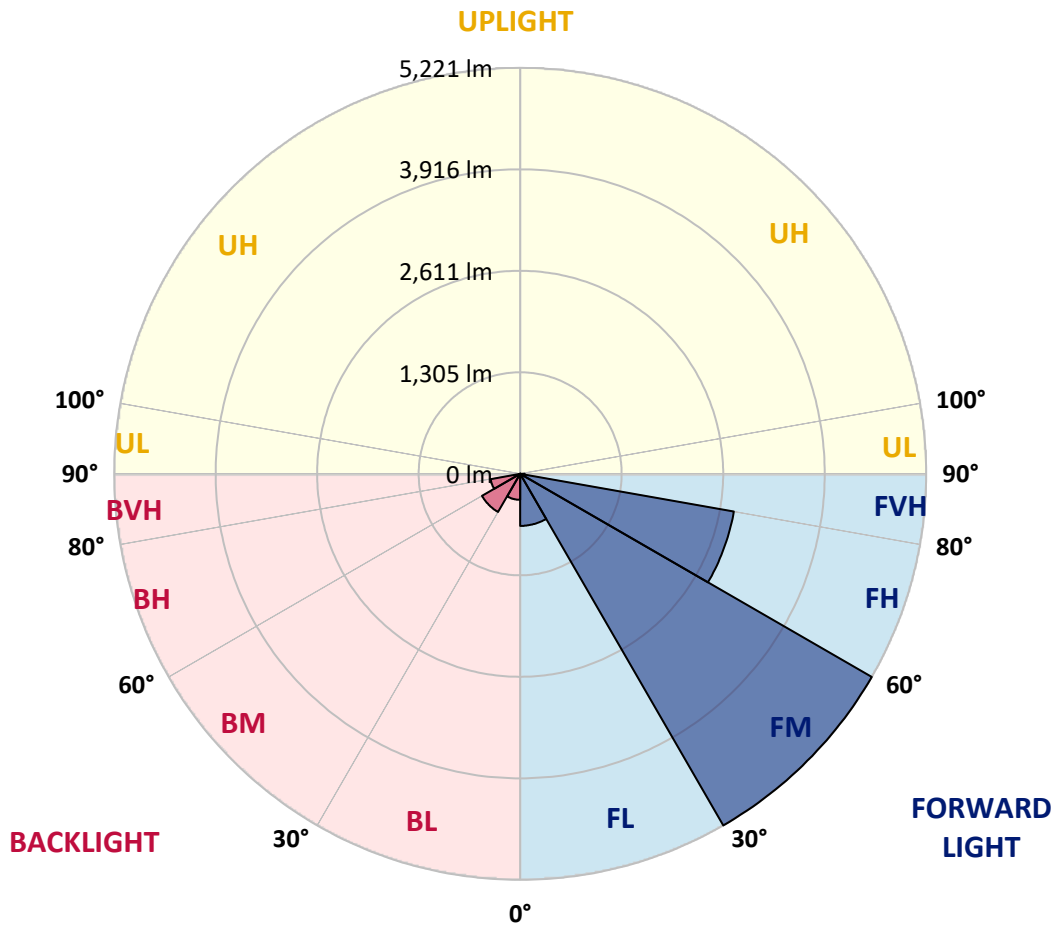
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	669.7	6.7			
FM (30°-60°)	5221.1	52.1			
FH (60°-80°)	2790.3	27.8			G2/5000
FVH (80°-90°)	57.1	0.6			G1/100
BL (0°-30°)	334.5	3.3	B1/500		
BM (30°-60°)	567.0	5.7	B1/1000		
BH (60°-80°)	386.5	3.9	B1/500		G1/500
BVH (80°-90°)	2.7	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0
2.5°	1571.5	1567.7	1563.9	1562.0	1562.0	1560.1	1552.5	1550.7	1546.9	1543.1	1539.3
5°	1556.3	1550.7	1548.8	1550.7	1552.5	1556.3	1552.5	1552.5	1548.8	1545.0	1537.4
7.5°	1518.5	1514.7	1516.6	1522.3	1524.1	1537.4	1539.3	1545.0	1545.0	1541.2	1535.5
10°	1473.0	1471.1	1471.1	1480.6	1490.1	1509.0	1522.3	1537.4	1539.3	1539.3	1529.8
12.5°	1438.9	1437.1	1442.7	1454.1	1473.0	1497.6	1520.4	1543.1	1546.9	1548.8	1533.6
15°	1418.1	1418.1	1425.7	1448.4	1474.9	1509.0	1535.5	1565.8	1569.6	1567.7	1546.9
17.5°	1399.2	1401.1	1416.2	1454.1	1484.4	1529.8	1562.0	1596.1	1598.0	1596.1	1562.0
20°	1391.6	1395.4	1418.1	1467.3	1501.4	1552.5	1594.2	1628.3	1630.2	1622.6	1577.2
22.5°	1412.4	1414.3	1442.7	1495.7	1527.9	1584.7	1637.7	1669.9	1671.8	1660.5	1599.9
25°	1484.4	1484.4	1509.0	1554.4	1582.8	1639.6	1696.4	1734.3	1734.3	1721.1	1651.0
27.5°	1652.9	1637.7	1632.1	1645.3	1654.8	1715.4	1776.0	1823.3	1821.4	1802.5	1717.3
30°	1978.5	1940.7	1880.1	1811.9	1777.9	1819.5	1876.3	1936.9	1935.0	1904.7	1798.7
32.5°	2525.7	2470.8	2326.9	2147.1	2001.3	1953.9	2007.0	2073.2	2075.1	2039.1	1929.3
35°	3292.5	3205.4	2947.9	2698.0	2364.8	2184.9	2200.1	2272.0	2294.7	2275.8	2149.0
37.5°	4030.9	3951.4	3705.3	3358.8	2906.3	2539.0	2474.6	2537.1	2563.6	2563.6	2429.2
40°	4775.0	4682.3	4464.5	4116.1	3639.0	3091.8	2860.9	2912.0	2940.4	2946.1	2770.0
42.5°	5371.4	5310.8	5144.2	4873.5	4426.7	4061.2	3417.5	3389.1	3415.6	3394.8	3165.7
45°	5784.2	5736.8	5621.4	5519.1	5301.4	5117.7	4161.6	3970.4	3987.4	3915.4	3610.6
47.5°	5869.4	5816.4	5791.8	5933.8	6089.0	6134.5	5076.1	4661.4	4644.4	4485.3	4072.6
50°	5498.3	5504.0	5594.8	6000.0	6647.5	7056.5	6136.3	5441.5	5379.0	5024.9	4502.4
52.5°	4697.4	4788.3	5017.4	5674.4	6817.9	7726.8	7196.6	6268.9	6172.3	5549.4	4824.3
55°	3675.0	3792.4	4169.2	4924.6	6462.0	8025.9	8090.3	7128.5	6908.8	5943.2	5074.2
57.5°	2732.1	2768.1	3207.3	3896.5	5619.5	7732.4	8548.5	7791.1	7509.0	6257.5	5322.2
60°	1702.1	1724.8	2188.7	2966.9	4256.2	6647.5	8548.5	8247.4	7978.6	6539.6	5549.4
62.5°	1058.4	1066.0	1240.1	2033.5	2893.0	4930.3	8194.4	8601.5	8385.6	6742.2	5744.4
65°	609.7	617.2	698.6	1149.3	1882.0	2951.7	7289.4	8705.6	8609.1	6903.2	5895.9
67.5°	444.9	448.7	480.9	645.6	1230.7	1516.6	5475.6	8287.2	8408.4	6982.7	5892.1
70°	386.2	391.9	433.6	503.6	888.0	931.5	2787.0	7156.9	7495.8	6869.1	5716.0
72.5°	297.3	304.8	367.3	473.3	651.3	670.2	1009.2	5093.1	5606.2	6159.1	5233.2
75°	204.5	212.1	274.5	390.0	537.7	501.7	554.8	2344.0	2957.4	4131.3	3983.6
77.5°	130.6	132.5	172.3	284.0	463.9	355.9	380.6	764.9	1073.5	1868.7	1880.1
80°	87.1	89.0	106.0	183.7	318.1	329.4	234.8	354.1	388.1	545.3	378.7
82.5°	53.0	53.0	71.9	115.5	193.1	272.6	153.4	185.5	198.8	210.2	98.5
85°	20.8	20.8	43.5	75.7	121.2	126.9	96.6	107.9	113.6	123.1	45.4
87.5°	5.7	5.7	24.6	41.7	53.0	58.7	58.7	53.0	56.8	70.1	22.7
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°	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0	1545.0
2.5°	1537.4	1531.7	1524.1	1516.6	1509.0	1503.3	1497.6	1497.6	1493.9	1488.2	1484.4
5°	1533.6	1524.1	1507.1	1493.9	1473.0	1457.9	1446.5	1437.1	1431.4	1418.1	1416.2
7.5°	1527.9	1516.6	1492.0	1465.5	1431.4	1404.9	1378.4	1359.4	1340.5	1325.3	1321.6
10°	1518.5	1505.2	1469.2	1431.4	1384.0	1334.8	1272.3	1200.4	1134.1	1096.2	1084.9
12.5°	1518.5	1501.4	1454.1	1403.0	1334.8	1213.6	1054.6	895.6	772.5	717.6	702.4
15°	1527.9	1505.2	1442.7	1372.7	1245.8	999.7	742.2	532.0	397.6	355.9	346.5
17.5°	1537.4	1505.2	1425.7	1331.0	1083.0	725.2	422.2	280.2	236.7	227.2	227.2
20°	1541.2	1501.4	1403.0	1253.4	865.3	450.6	251.8	210.2	193.1	187.4	187.4
22.5°	1556.3	1503.3	1385.9	1141.7	628.6	265.1	198.8	176.1	159.0	153.4	153.4
25°	1594.2	1526.0	1389.7	999.7	403.3	200.7	168.5	145.8	128.7	121.2	121.2
27.5°	1654.8	1577.2	1410.5	835.0	253.7	172.3	142.0	117.4	104.1	96.6	96.6
30°	1722.9	1634.0	1420.0	645.6	189.3	145.8	115.5	92.8	83.3	77.6	75.7
32.5°	1842.2	1732.4	1412.4	443.0	155.3	123.1	92.8	73.8	66.3	64.4	64.4
35°	2033.5	1904.7	1397.3	278.3	128.7	98.5	73.8	60.6	54.9	53.0	51.1
37.5°	2292.8	2156.5	1351.9	183.7	106.0	77.6	60.6	51.1	45.4	43.5	43.5
40°	2609.0	2444.3	1264.8	140.1	90.9	62.5	51.1	43.5	39.8	37.9	37.9
42.5°	2970.7	2764.3	1126.5	121.2	75.7	53.0	43.5	36.0	34.1	32.2	32.2
45°	3366.4	3099.4	935.3	107.9	64.4	43.5	36.0	32.2	28.4	28.4	26.5
47.5°	3786.7	3436.4	719.5	94.7	54.9	37.9	32.2	26.5	24.6	22.7	22.7
50°	4191.9	3737.5	505.5	81.4	45.4	32.2	26.5	22.7	20.8	18.9	18.9
52.5°	4477.8	3919.2	357.8	70.1	37.9	28.4	20.8	17.0	15.1	15.1	15.1
55°	4706.9	4032.8	249.9	58.7	32.2	24.6	17.0	13.3	13.3	11.4	11.4
57.5°	4922.7	4106.7	183.7	49.2	26.5	18.9	13.3	9.5	9.5	7.6	7.6
60°	5146.1	4146.4	140.1	39.8	22.7	15.1	9.5	7.6	5.7	5.7	5.7
62.5°	5371.4	4171.0	107.9	32.2	18.9	11.4	7.6	5.7	3.8	1.9	1.9
65°	5568.3	4178.6	83.3	24.6	15.1	7.6	5.7	1.9	0.0	0.0	0.0
67.5°	5627.0	4091.5	64.4	18.9	11.4	5.7	3.8	0.0	0.0	0.0	0.0
70°	5468.0	3860.5	49.2	15.1	9.5	3.8	1.9	0.0	0.0	0.0	0.0
72.5°	4852.7	3237.6	37.9	9.5	7.6	3.8	1.9	0.0	0.0	0.0	0.0
75°	3472.4	1726.7	26.5	7.6	5.7	1.9	0.0	0.0	0.0	0.0	0.0
77.5°	1598.0	668.4	18.9	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
80°	312.4	166.6	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	71.9	28.4	3.8	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.6	9.5	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	3.8	1.9	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)