

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: P381064

Luminaire Tested: **PRV-XL-PA3A-8540-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3A-8540-U-5WQ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19929.7 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

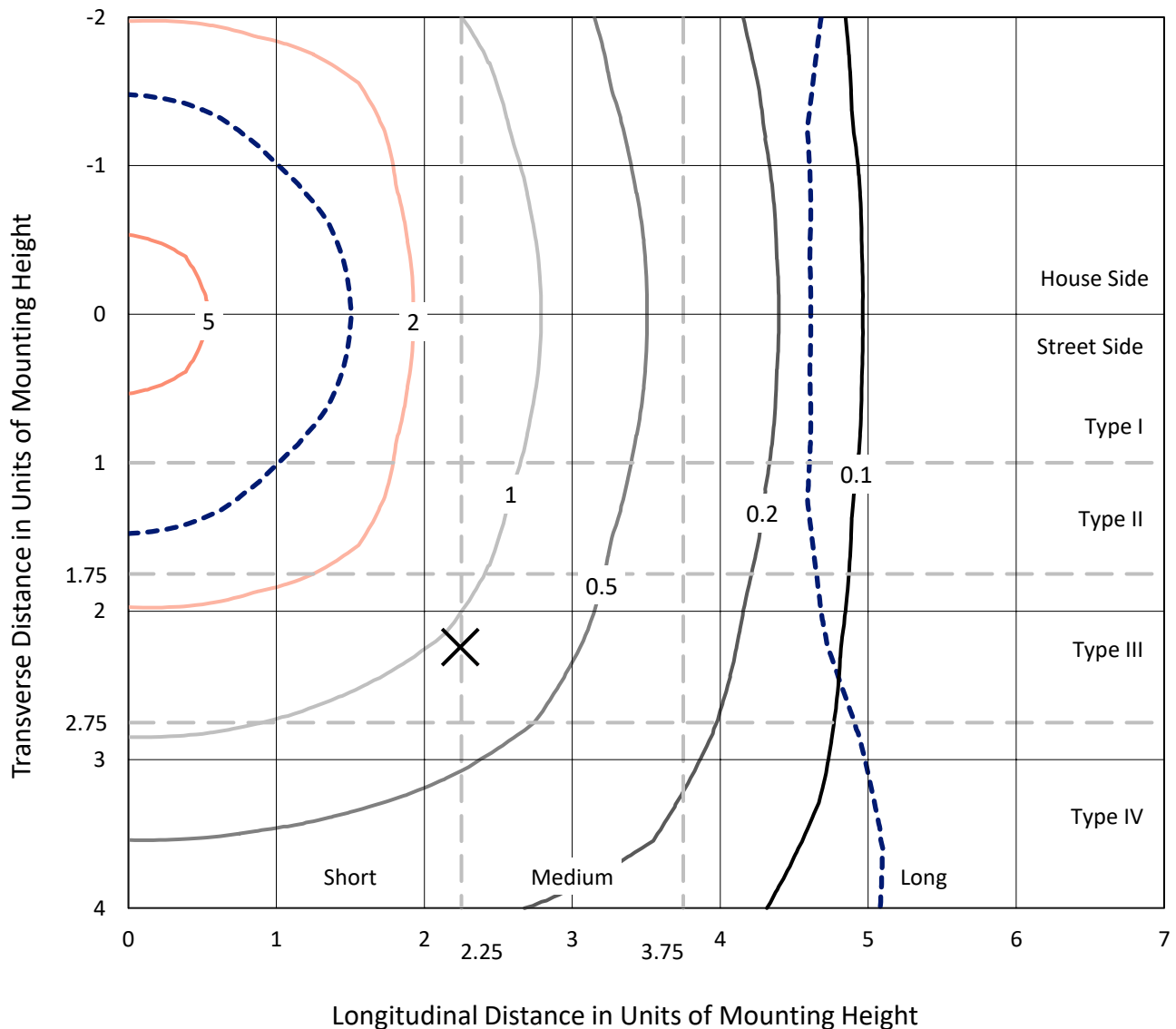


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

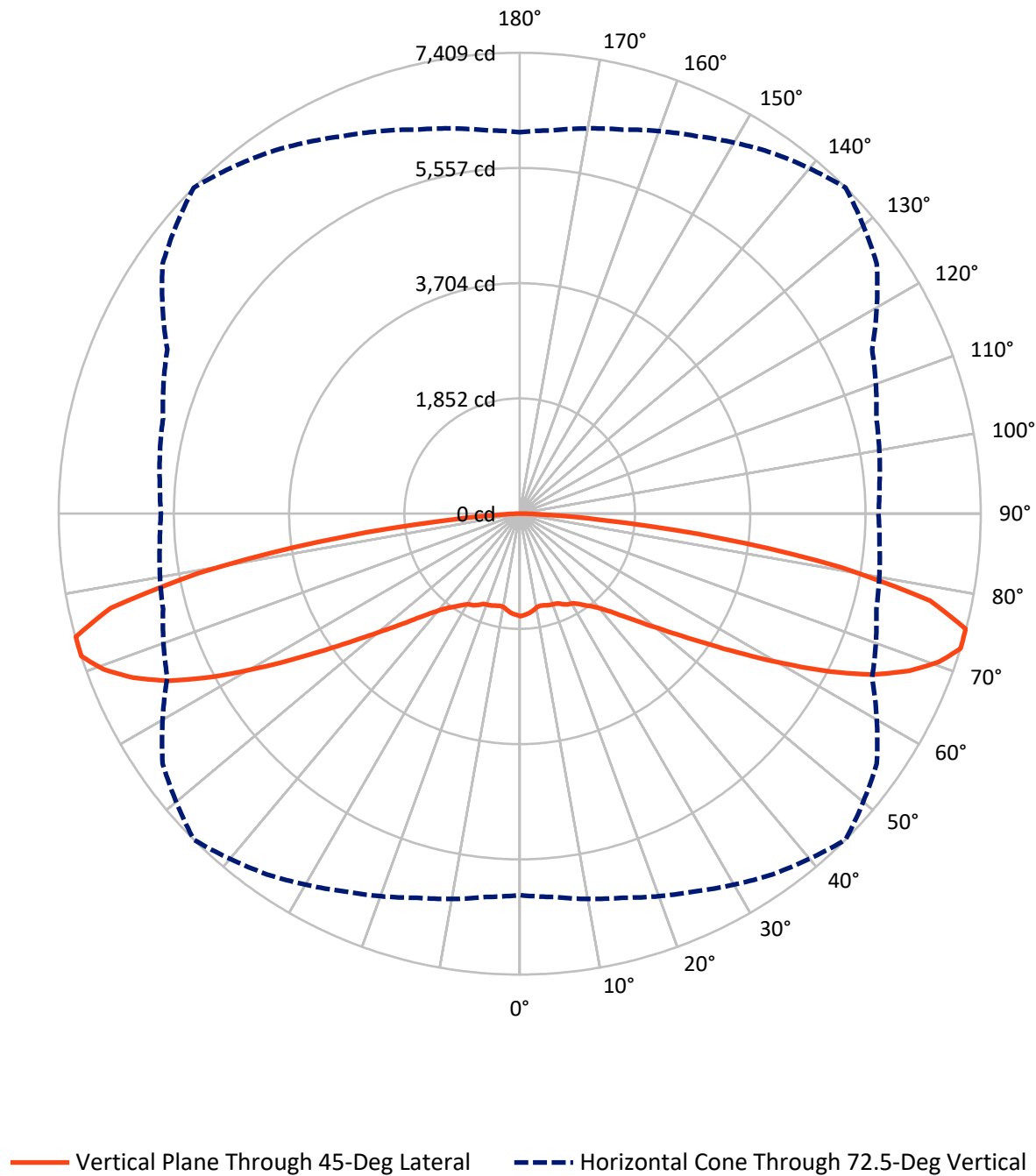


Based on 15 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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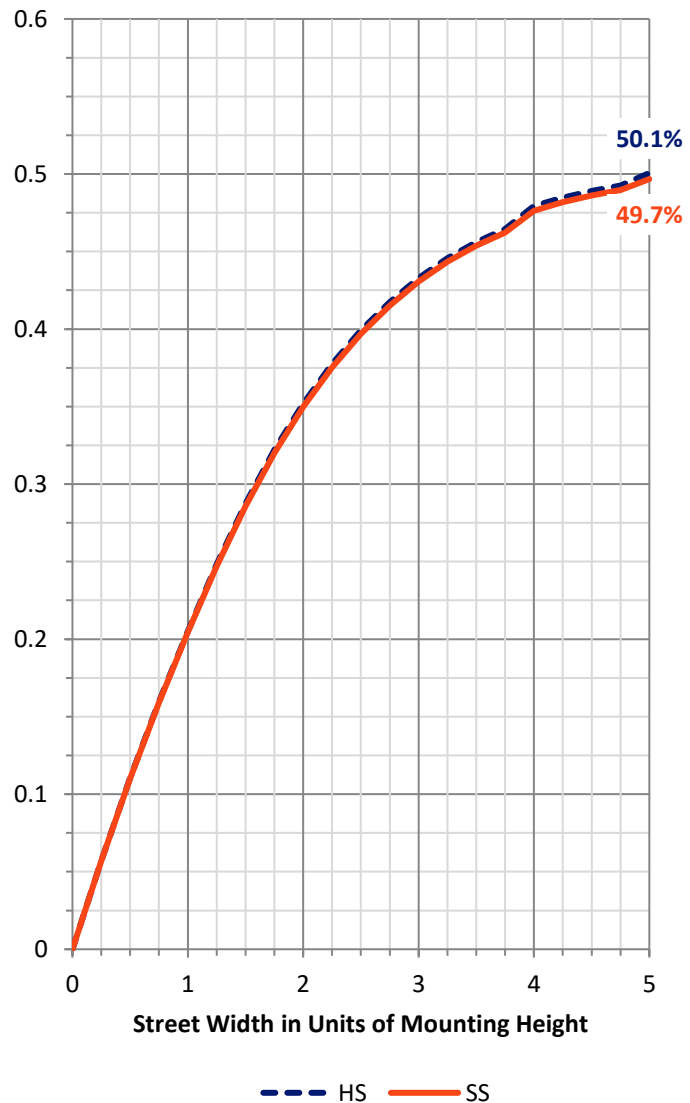
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9964.8	0.0	9964.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9964.8	0.0	9964.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	19929.7	0.0	19929.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	0.8
10°-20°	439.0	2.2
20°-30°	745.9	3.7
30°-40°	1137.7	5.7
40°-50°	1873.3	9.4
50°-60°	3271.3	16.4
60°-70°	5484.5	27.5
70°-80°	5869.5	29.5
80°-90°	957.3	4.8
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°	19929.7	100.0
0°-180°	19929.7	100.0

Coefficient of Utilization



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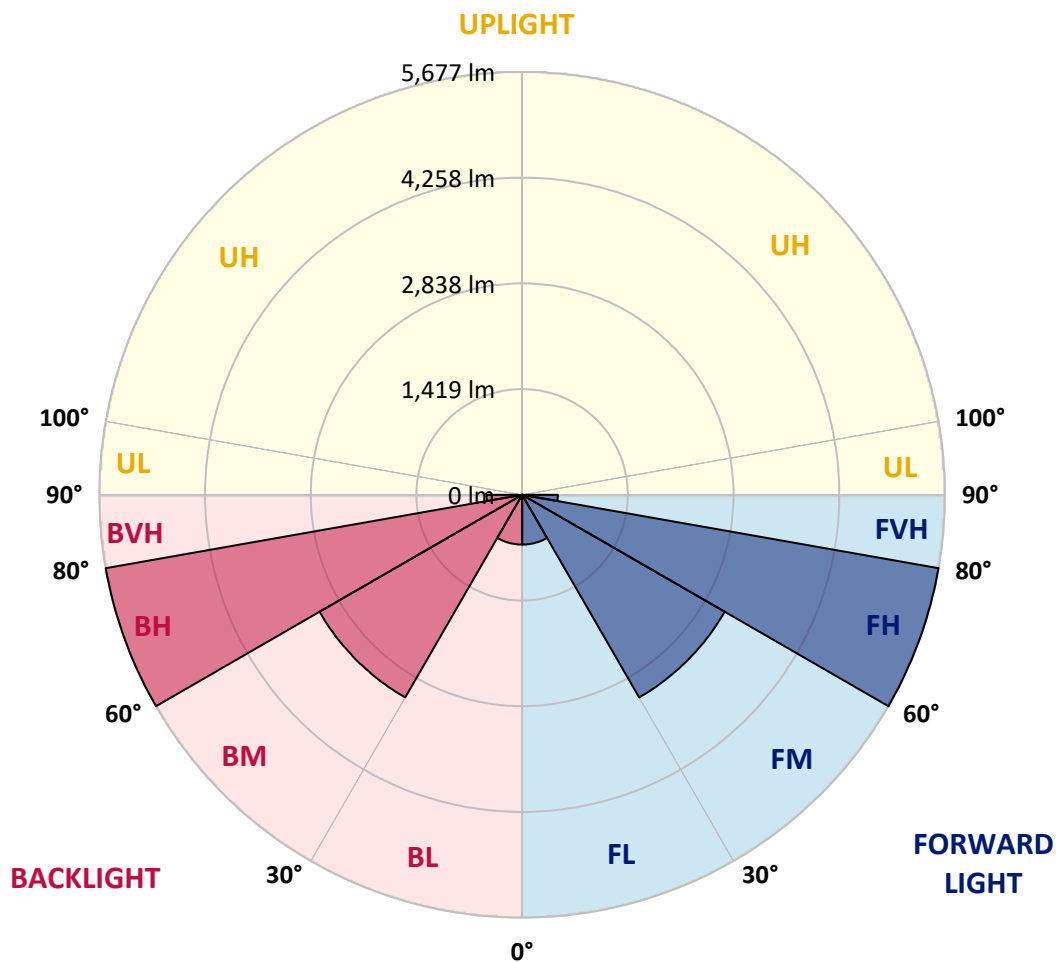
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	668.0	3.4			
FM	(30°-60°)	3141.2	15.8			
FH	(60°-80°)	5677.0	28.5			G3/7500
FVH	(80°-90°)	478.7	2.4			G3/500
BL	(0°-30°)	668.0	3.4	B2/1000		
BM	(30°-60°)	3141.2	15.8	B3/5000		
BH	(60°-80°)	5677.0	28.5	B5		G3/7500
BVH	(80°-90°)	478.7	2.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2
2.5°	1639.1	1639.1	1639.1	1636.5	1631.4	1628.9	1623.8	1626.3	1626.3	1626.3	1626.3
5°	1618.7	1618.7	1616.1	1613.6	1608.5	1605.9	1600.8	1605.9	1605.9	1605.9	1605.9
7.5°	1580.5	1583.1	1583.1	1580.5	1572.9	1570.3	1562.7	1565.2	1565.2	1567.8	1565.2
10°	1560.1	1560.1	1557.5	1544.9	1532.1	1527.0	1524.5	1532.1	1539.8	1547.4	1547.4
12.5°	1560.1	1560.1	1555.0	1534.7	1516.8	1516.8	1516.8	1527.0	1542.3	1557.5	1560.1
15°	1567.8	1567.8	1557.5	1534.7	1524.5	1527.0	1527.0	1537.2	1555.0	1575.4	1578.0
17.5°	1572.9	1572.9	1560.1	1537.2	1537.2	1544.9	1539.8	1547.4	1565.2	1588.2	1590.7
20°	1580.5	1580.5	1562.7	1544.9	1544.9	1552.5	1552.5	1560.1	1575.4	1598.3	1600.8
22.5°	1595.8	1593.2	1575.4	1560.1	1560.1	1565.2	1570.3	1580.5	1593.2	1613.6	1618.7
25°	1613.6	1613.6	1598.3	1595.8	1600.8	1613.6	1611.0	1608.5	1613.6	1631.4	1639.1
27.5°	1623.8	1623.8	1613.6	1621.2	1641.6	1651.7	1639.1	1628.9	1628.9	1646.6	1649.2
30°	1656.8	1654.3	1644.1	1649.2	1667.0	1672.1	1664.5	1651.7	1659.4	1679.8	1682.3
32.5°	1712.8	1712.8	1697.5	1697.5	1710.3	1730.7	1705.2	1697.5	1707.7	1730.7	1733.2
35°	1799.3	1799.3	1779.0	1768.8	1779.0	1807.0	1768.8	1766.3	1784.1	1809.5	1812.1
37.5°	1908.8	1908.8	1896.1	1870.6	1873.2	1891.0	1857.9	1855.3	1888.4	1916.5	1916.5
40°	2046.2	2053.9	2041.1	2010.6	2000.4	2003.0	1977.5	1980.1	2018.3	2051.3	2051.3
42.5°	2216.8	2221.8	2201.5	2178.5	2165.9	2158.2	2132.7	2137.8	2183.6	2226.9	2226.9
45°	2422.9	2425.4	2405.1	2377.1	2361.8	2356.8	2331.3	2344.0	2394.9	2440.7	2438.2
47.5°	2654.5	2657.0	2636.7	2608.7	2598.5	2606.1	2580.7	2580.7	2626.5	2664.7	2659.6
50°	2916.7	2921.8	2898.8	2886.1	2878.5	2898.8	2868.3	2840.3	2870.9	2909.0	2903.9
52.5°	3206.8	3219.5	3204.3	3209.4	3237.3	3262.8	3211.9	3150.8	3166.1	3191.5	3183.9
55°	3558.0	3573.3	3578.4	3596.2	3670.0	3713.2	3629.3	3527.5	3519.8	3522.4	3509.6
57.5°	3952.5	3962.7	3995.7	4036.4	4189.2	4257.9	4125.5	3949.9	3893.9	3860.9	3853.2
60°	4349.5	4367.3	4448.8	4532.8	4766.9	4891.6	4688.1	4392.8	4273.1	4212.1	4199.4
62.5°	4749.1	4784.8	4917.1	5059.6	5400.7	5586.4	5273.3	4845.8	4672.7	4596.4	4576.0
65°	5212.3	5255.6	5415.9	5596.6	5975.9	6237.9	5858.7	5314.1	5128.3	5026.5	5001.1
67.5°	5754.4	5800.2	5930.0	6131.0	6489.9	6747.0	6411.0	5792.6	5550.8	5421.0	5400.7
70°	6199.8	6240.5	6380.5	6584.1	6851.3	7144.0	6823.3	6174.3	5955.5	5863.8	5851.1
72.5°	6131.0	6184.5	6390.7	6696.1	7077.9	7408.7	7004.0	6248.2	5932.6	5805.3	5764.6
75°	5354.9	5413.3	5657.7	6210.0	6907.3	7401.1	6741.9	5756.9	5385.4	5278.4	5258.1
77.5°	3545.3	3601.3	4013.6	4884.0	6031.8	6744.4	5950.4	4822.9	4224.8	3967.8	3952.5
80°	1432.9	1504.1	1898.6	2822.5	4275.7	5242.8	4413.1	3087.1	2081.8	1679.8	1598.3
82.5°	333.4	397.1	577.7	1040.9	2188.8	3265.3	2379.6	1152.9	669.4	475.9	427.6
85°	140.0	142.5	246.9	338.5	684.7	1318.3	778.8	419.9	341.1	249.4	244.3
87.5°	53.5	56.0	119.6	142.5	218.8	249.4	264.7	216.3	201.1	124.7	119.6
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)