

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: STREETWORKS

Report Number: P157589

Luminaire Tested: **VST-E07-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157589
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E07-LED-E-U-5WQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (147) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20187.3 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 172.5
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

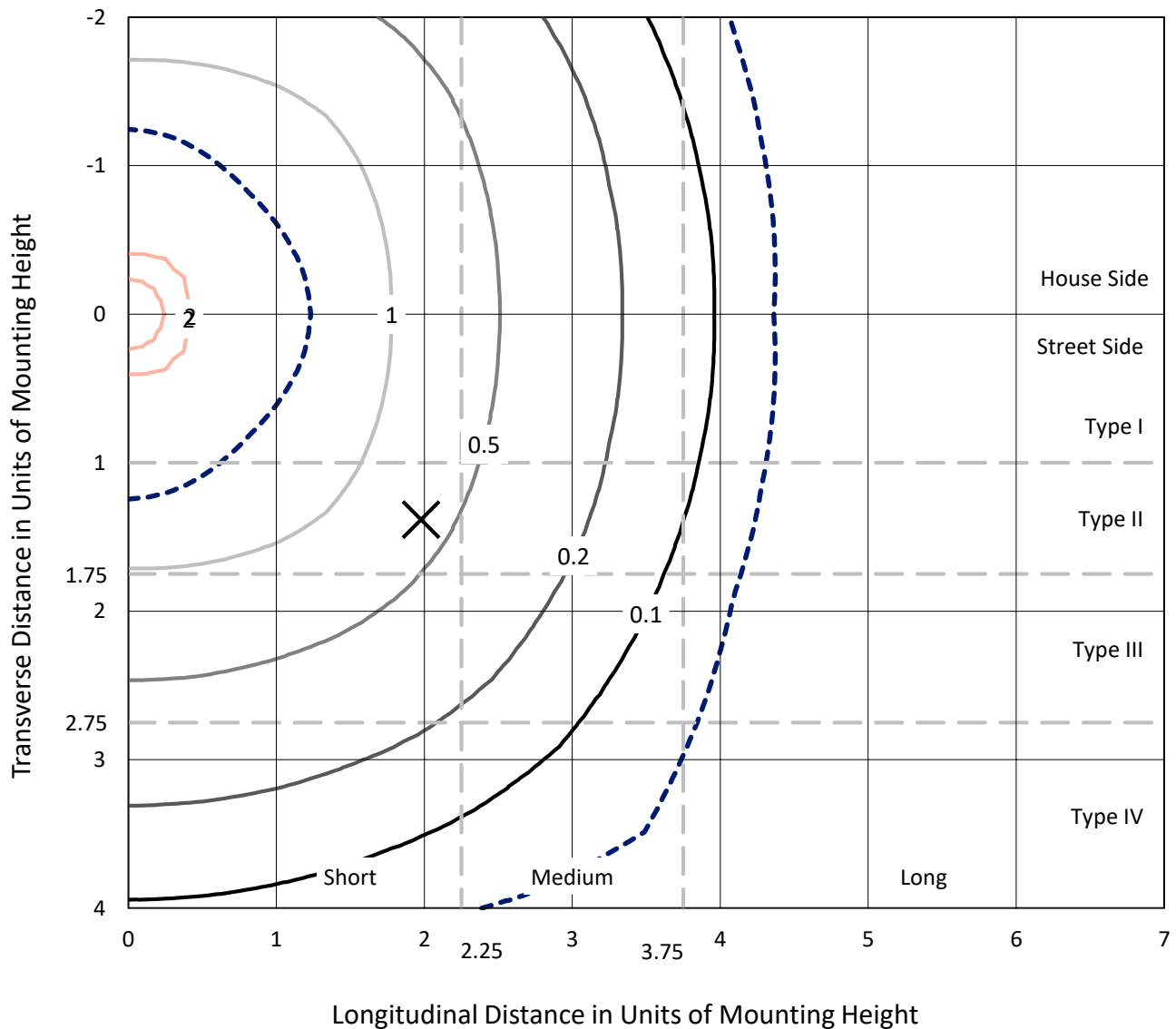


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

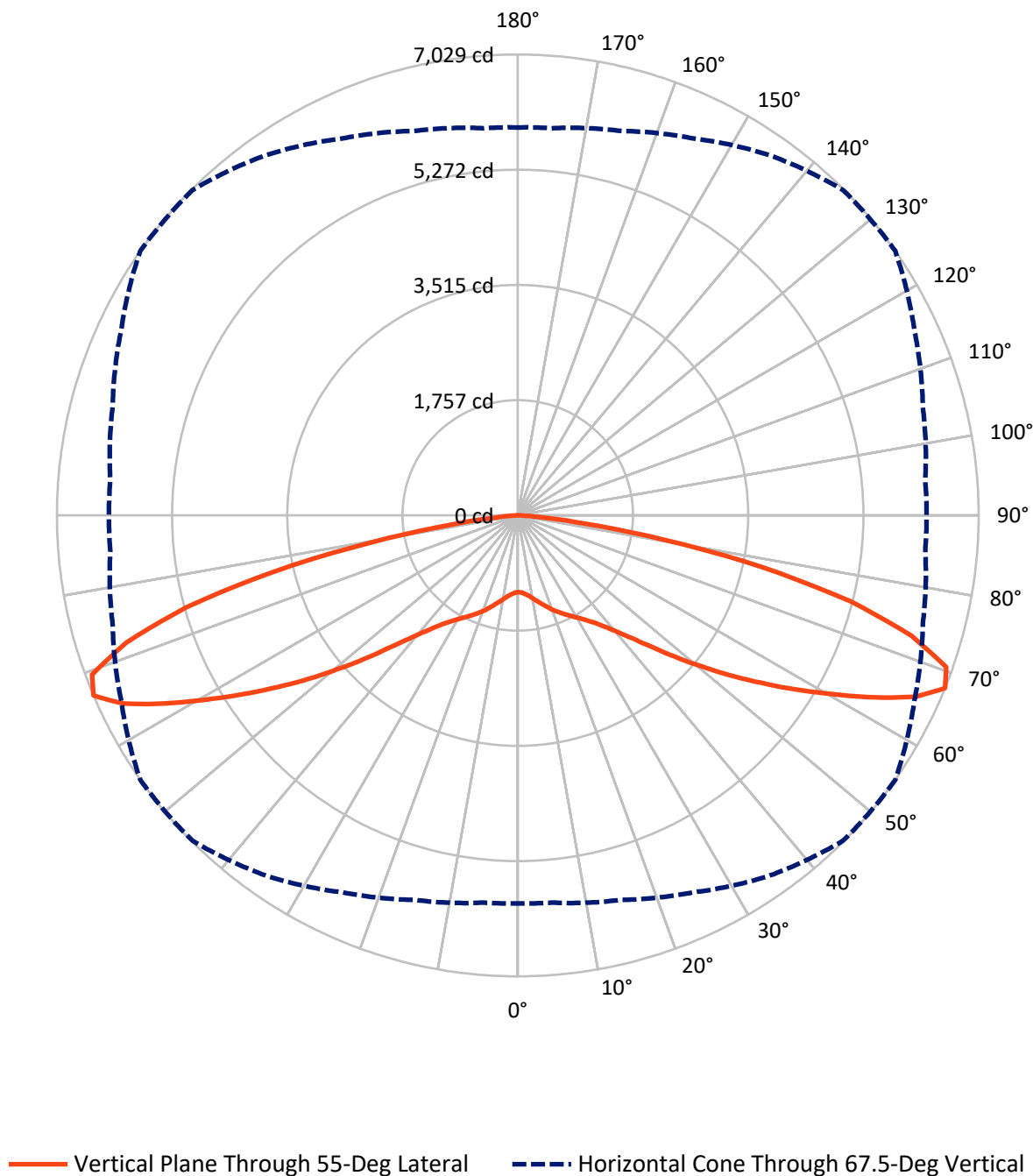


Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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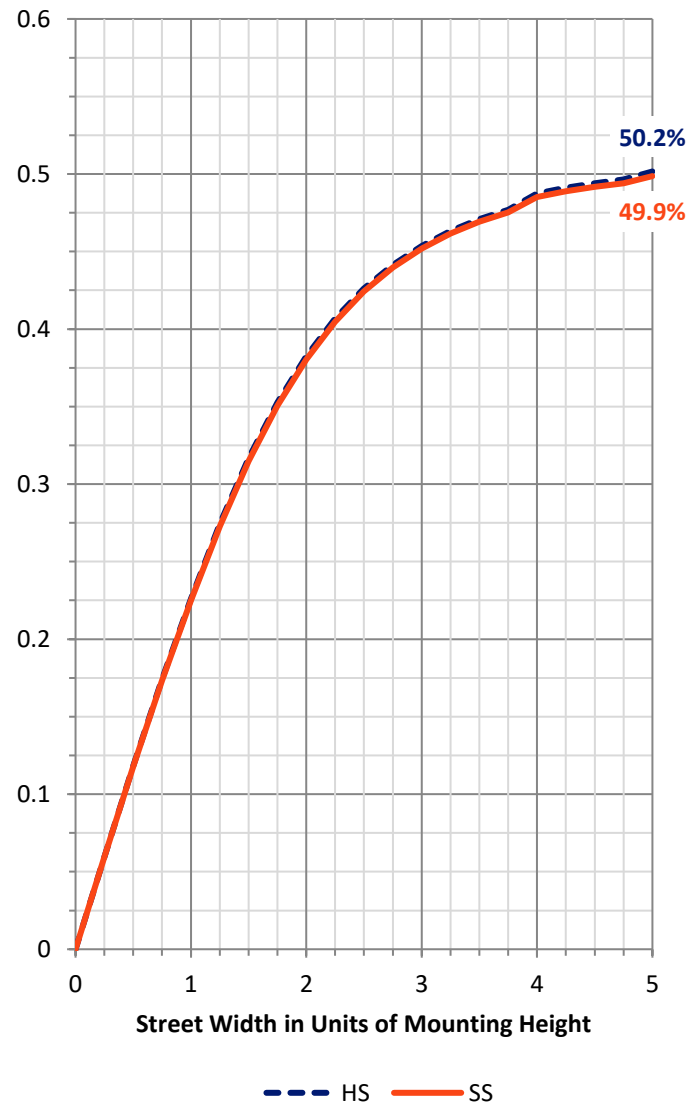
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10093.6	0.0	10093.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10093.6	0.0	10093.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	20187.3	0.0	20187.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	0.6
10°-20°	401.7	2.0
20°-30°	772.3	3.8
30°-40°	1265.2	6.3
40°-50°	2199.4	10.9
50°-60°	3925.8	19.4
60°-70°	6061.2	30.0
70°-80°	4906.6	24.3
80°-90°	537.5	2.7
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°	20187.3	100.0
0°-180°	20187.3	100.0

Coefficient of Utilization



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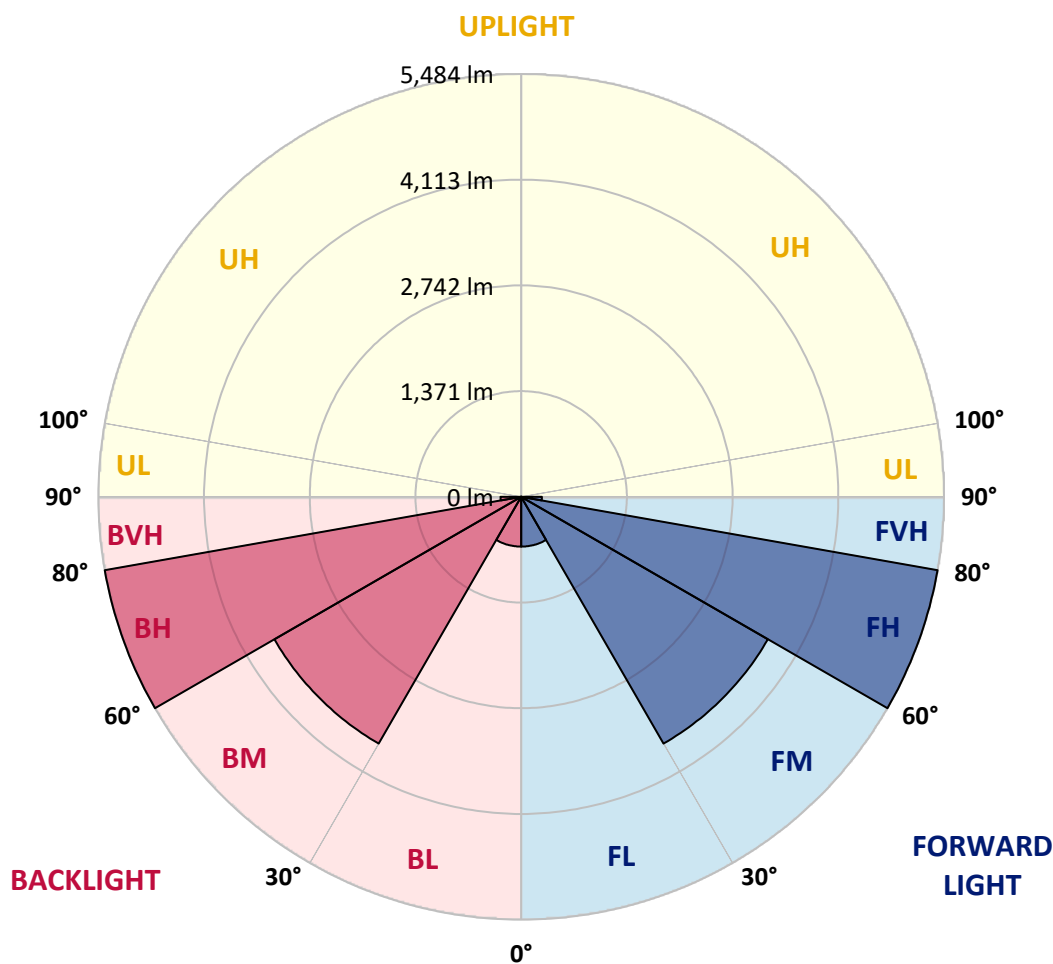
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	645.8	3.2			
FM	(30°-60°)	3695.2	18.3			
FH	(60°-80°)	5483.9	27.2			G3/7500
FVH	(80°-90°)	268.7	1.3			G3/500
BL	(0°-30°)	645.8	3.2	B2/1000		
BM	(30°-60°)	3695.2	18.3	B3/5000		
BH	(60°-80°)	5483.9	27.2	B5		G3/7500
BVH	(80°-90°)	268.7	1.3			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°	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3
2.5°	1179.0	1180.2	1179.0	1179.0	1177.7	1177.7	1177.7	1179.0	1179.0	1181.5	1180.2
5°	1203.2	1204.5	1202.0	1204.5	1204.5	1205.8	1204.5	1203.2	1204.5	1205.8	1202.0
7.5°	1237.8	1240.3	1239.1	1240.3	1241.6	1240.3	1240.3	1239.1	1241.6	1240.3	1237.8
10°	1282.5	1285.1	1283.8	1286.4	1287.6	1288.9	1288.9	1286.4	1285.1	1285.1	1283.8
12.5°	1336.2	1336.2	1336.2	1340.1	1342.6	1345.2	1343.9	1341.3	1337.5	1338.8	1333.7
15°	1395.1	1397.6	1397.6	1398.9	1405.3	1406.6	1405.3	1401.4	1400.2	1397.6	1395.1
17.5°	1460.3	1461.5	1462.8	1464.1	1471.8	1475.6	1470.5	1464.1	1464.1	1462.8	1462.8
20°	1528.0	1526.8	1529.3	1531.9	1537.0	1540.8	1539.5	1533.1	1528.0	1531.9	1530.6
22.5°	1590.7	1592.0	1593.2	1597.1	1606.0	1607.3	1603.5	1598.4	1592.0	1593.2	1593.2
25°	1649.5	1650.8	1653.3	1658.5	1668.7	1675.1	1670.0	1662.3	1653.3	1653.3	1654.6
27.5°	1709.6	1710.9	1712.2	1721.1	1733.9	1741.6	1737.7	1725.0	1714.7	1712.2	1708.3
30°	1776.1	1776.1	1778.7	1790.2	1806.8	1815.7	1810.6	1795.3	1779.9	1777.4	1777.4
32.5°	1860.5	1855.4	1859.2	1874.6	1892.5	1902.7	1898.9	1881.0	1861.8	1857.9	1857.9
35°	1961.5	1959.0	1961.5	1979.4	2001.2	2016.5	2007.5	1990.9	1970.5	1966.6	1964.1
37.5°	2081.7	2083.0	2090.7	2111.1	2140.5	2159.7	2150.8	2123.9	2099.6	2099.6	2099.6
40°	2233.9	2236.4	2251.8	2282.5	2324.7	2341.3	2331.1	2297.8	2269.7	2259.4	2262.0
42.5°	2441.0	2439.7	2464.0	2502.4	2552.3	2576.6	2559.9	2524.1	2483.2	2466.6	2467.9
45°	2685.2	2703.2	2728.7	2777.3	2840.0	2882.2	2852.8	2813.1	2751.7	2727.4	2726.2
47.5°	2980.6	2999.8	3031.8	3112.3	3187.8	3238.9	3215.9	3150.7	3062.5	3027.9	3015.2
50°	3316.9	3341.2	3382.1	3485.7	3593.1	3650.7	3609.7	3524.1	3429.4	3377.0	3364.2
52.5°	3695.4	3703.1	3764.5	3889.8	4022.8	4093.1	4047.1	3944.8	3823.3	3774.7	3738.9
55°	4114.8	4121.2	4191.5	4333.5	4484.4	4567.5	4508.7	4379.5	4267.0	4182.6	4190.3
57.5°	4503.5	4522.7	4626.3	4792.5	4970.3	5071.3	5007.4	4870.5	4752.9	4657.0	4668.5
60°	4919.1	4939.6	5048.3	5246.5	5486.9	5621.1	5538.0	5391.0	5269.5	5178.7	5167.2
62.5°	5360.3	5371.8	5490.7	5668.4	5975.3	6191.4	6112.1	5949.7	5807.8	5718.3	5709.4
65°	5768.2	5783.5	5884.5	6078.9	6394.7	6710.6	6665.8	6440.8	6249.0	6119.8	6101.9
67.5°	5916.5	5926.7	6068.7	6341.0	6704.2	7016.2	7029.0	6674.8	6396.0	6238.7	6234.9
70°	5742.6	5750.3	5931.8	6255.4	6718.2	6977.8	6931.8	6576.3	6233.6	6040.5	6021.4
72.5°	5352.6	5353.9	5520.1	5795.0	6259.2	6471.5	6275.8	6080.2	5726.0	5581.5	5543.1
75°	4642.9	4644.2	4759.3	4942.1	5273.3	5469.0	5246.5	5067.5	4859.0	4773.4	4728.6
77.5°	3192.9	3212.1	3331.0	3542.0	3905.1	4121.2	3829.7	3504.9	3378.3	3305.4	3261.9
80°	1537.0	1566.4	1703.2	1911.6	2291.4	2636.7	2277.3	1877.1	1630.3	1429.6	1465.4
82.5°	410.5	415.6	533.2	765.9	1067.7	1253.1	1017.8	712.2	448.8	301.8	276.2
85°	108.7	115.1	161.1	221.2	336.3	428.4	327.3	208.4	158.6	117.6	107.4
87.5°	29.4	34.5	56.3	67.8	84.4	67.8	84.4	72.9	70.3	37.1	26.9
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)