

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: P964180

Luminaire Tested: **NAV-SB3B-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

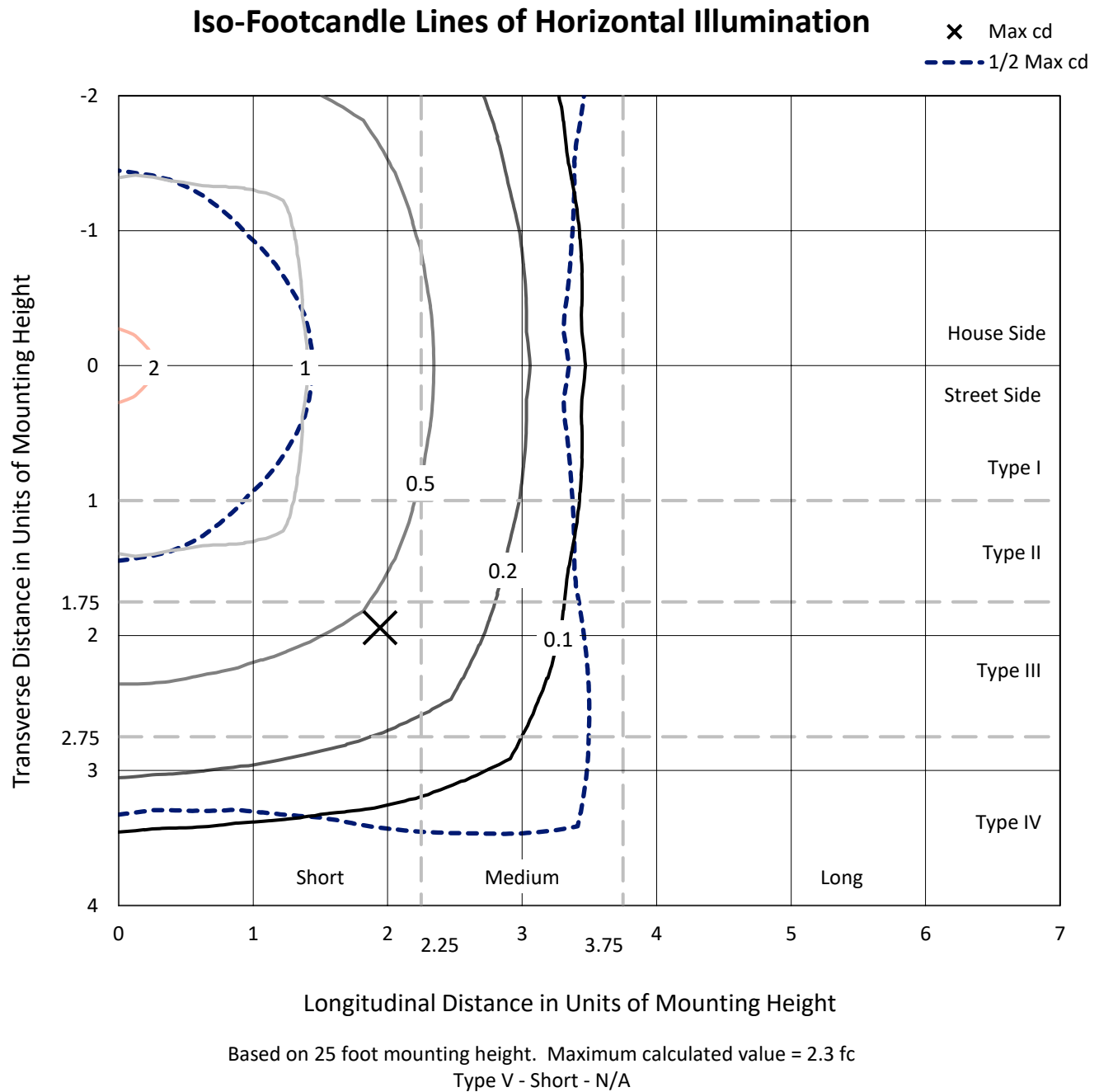
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15739.9 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 109.2
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: 24 FT

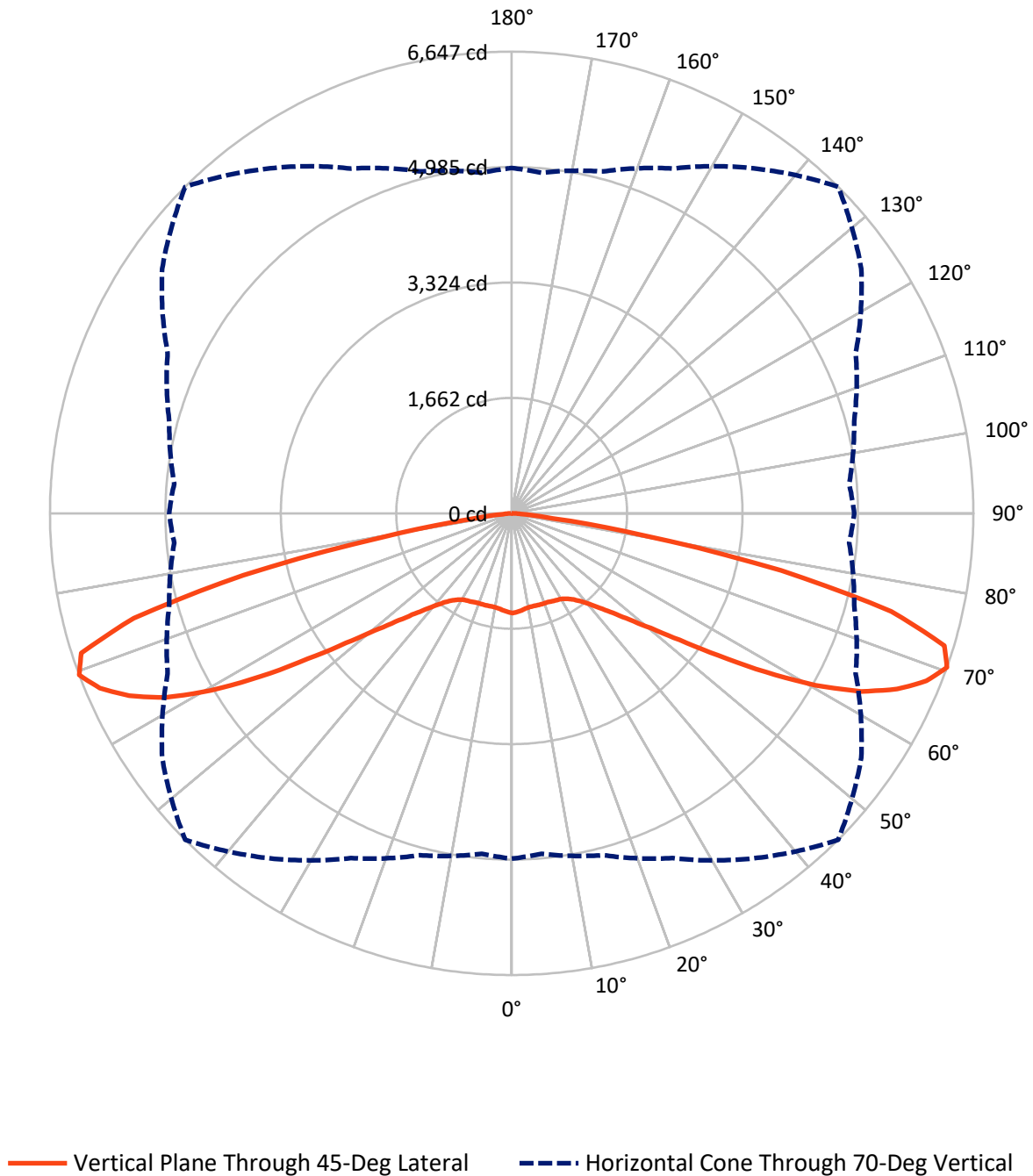


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Luminous Intensity Polar Plot



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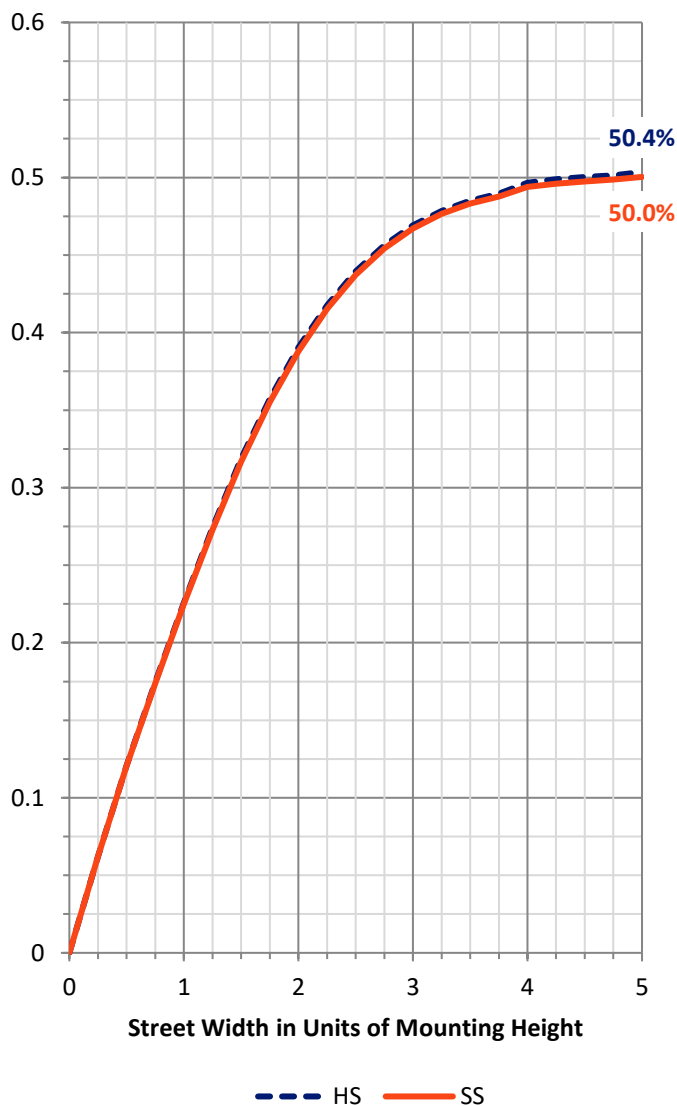
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7870.0	0.0	7870.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7870.0	0.0	7870.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15739.9	0.0	15739.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	0.8
10°-20°	392.2	2.5
20°-30°	652.6	4.1
30°-40°	987.0	6.3
40°-50°	1640.1	10.4
50°-60°	3094.9	19.7
60°-70°	5225.8	33.2
70°-80°	3433.9	21.8
80°-90°	179.9	1.1
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°	15739.9	100.0
0°-180°	15739.9	100.0

Coefficient of Utilization



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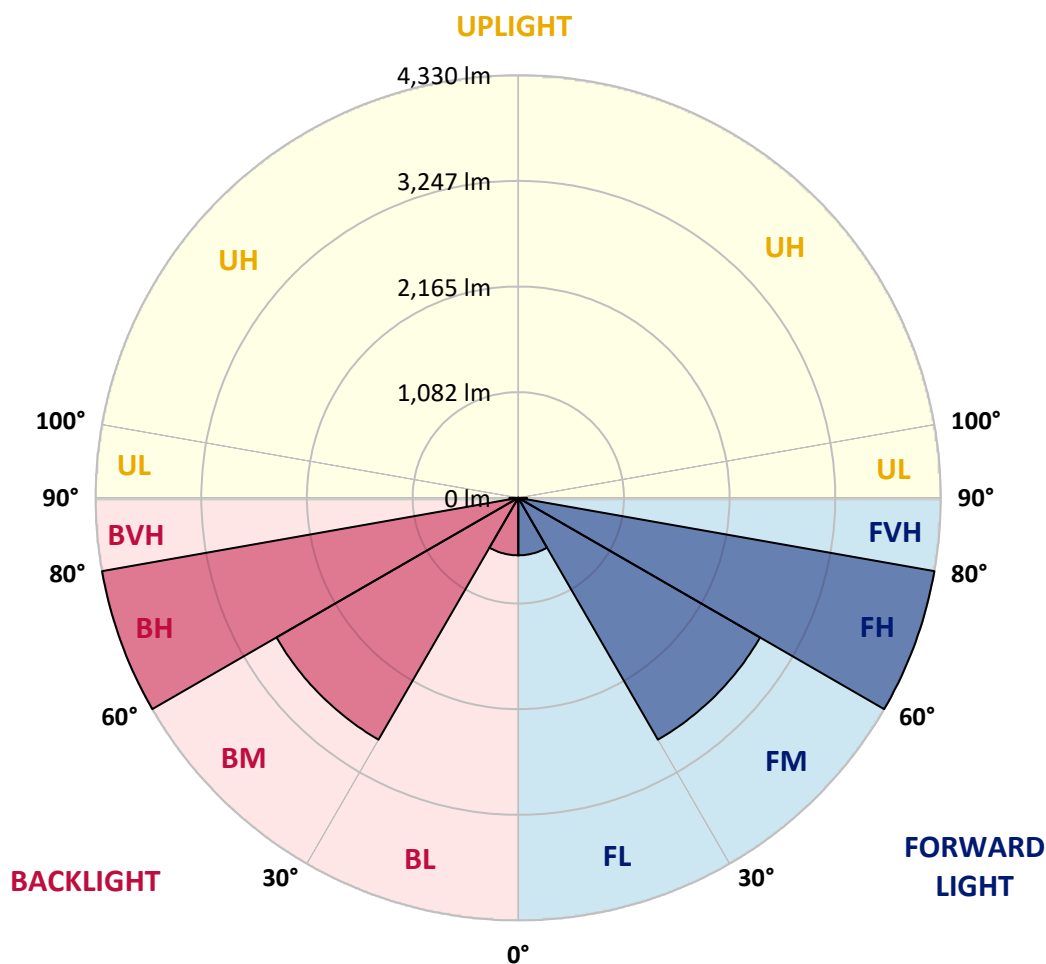
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.2	3.7			
FM	(30°-60°)	2861.0	18.2			
FH	(60°-80°)	4329.8	27.5			G2/5000
FVH	(80°-90°)	89.9	0.6			G1/100
BL	(0°-30°)	589.2	3.7	B2/1000		
BM	(30°-60°)	2861.0	18.2	B3/5000		
BH	(60°-80°)	4329.8	27.5	B4/5000		G2/5000
BVH	(80°-90°)	89.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1435.8	1435.8	1435.8	1435.8	1435.8	1435.8	1435.8	1435.8	1435.8	1435.8	1435.8
2.5°	1426.8	1430.9	1429.3	1426.0	1426.0	1423.5	1426.0	1427.6	1430.1	1431.7	1430.9
5°	1407.9	1411.2	1410.4	1407.9	1408.8	1406.3	1407.9	1410.4	1412.0	1412.9	1412.9
7.5°	1391.6	1394.9	1393.3	1389.2	1389.2	1386.7	1387.5	1390.0	1392.5	1393.3	1393.3
10°	1387.5	1390.8	1385.9	1379.3	1376.9	1373.6	1374.4	1376.9	1381.8	1384.3	1384.3
12.5°	1389.2	1391.6	1386.7	1376.9	1374.4	1371.1	1371.1	1373.6	1380.2	1383.4	1384.3
15°	1394.1	1396.6	1389.2	1378.5	1376.1	1373.6	1372.8	1376.1	1383.4	1389.2	1390.0
17.5°	1403.0	1405.5	1394.1	1379.3	1376.1	1376.9	1376.1	1378.5	1390.0	1400.7	1400.7
20°	1411.2	1412.9	1397.4	1379.3	1376.1	1376.9	1376.1	1381.0	1395.7	1410.4	1411.2
22.5°	1413.7	1415.3	1400.7	1385.1	1382.6	1383.4	1382.6	1387.5	1401.5	1416.1	1416.1
25°	1414.5	1417.0	1405.5	1393.3	1397.4	1399.0	1397.4	1398.2	1408.8	1421.9	1421.1
27.5°	1426.8	1430.1	1419.4	1408.8	1411.2	1410.4	1412.9	1415.3	1423.5	1436.6	1433.4
30°	1452.1	1454.6	1445.7	1435.0	1433.4	1427.6	1435.0	1443.2	1452.1	1463.6	1461.1
32.5°	1493.8	1498.8	1487.4	1475.9	1468.5	1465.2	1471.0	1484.9	1497.1	1509.4	1504.5
35°	1563.4	1566.7	1556.1	1534.8	1521.7	1521.7	1526.6	1544.6	1564.3	1579.8	1574.1
37.5°	1661.6	1665.7	1646.9	1621.6	1601.9	1601.9	1608.4	1627.2	1656.7	1678.7	1670.5
40°	1781.0	1786.8	1763.0	1736.9	1718.0	1714.8	1722.9	1744.2	1772.0	1799.9	1790.9
42.5°	1925.1	1931.6	1900.5	1877.6	1862.8	1862.8	1866.9	1886.6	1911.9	1946.3	1943.8
45°	2109.1	2120.5	2078.0	2055.1	2041.2	2044.5	2046.9	2064.1	2087.0	2126.3	2124.6
47.5°	2328.4	2339.8	2294.8	2271.1	2268.6	2284.2	2274.4	2286.7	2298.9	2343.9	2330.8
50°	2577.1	2596.7	2565.6	2563.9	2568.9	2597.6	2574.6	2581.2	2567.2	2595.9	2578.7
52.5°	2881.4	2910.1	2904.3	2914.2	2968.9	3027.8	2975.5	2952.6	2900.2	2909.3	2878.9
55°	3250.4	3293.7	3301.9	3360.9	3485.2	3605.4	3494.2	3401.8	3290.5	3270.1	3238.1
57.5°	3670.1	3704.5	3743.7	3863.9	4096.3	4309.8	4096.3	3891.8	3716.8	3674.9	3645.5
60°	4121.6	4164.3	4201.9	4379.4	4724.6	5024.9	4718.1	4393.3	4161.8	4105.3	4056.2
62.5°	4606.9	4661.6	4687.8	4884.9	5287.5	5645.8	5293.2	4899.7	4642.8	4582.3	4533.2
65°	5072.3	5117.3	5146.7	5357.1	5741.5	6100.7	5767.8	5379.9	5115.7	5036.3	4997.1
67.5°	5289.1	5313.7	5385.7	5623.8	6029.6	6439.4	6098.2	5649.1	5353.8	5214.7	5216.3
70°	4971.7	4921.7	5095.3	5476.5	6063.9	6647.2	6142.4	5465.0	5103.4	4877.6	4931.6
72.5°	3841.9	3756.0	4057.1	4709.1	5671.2	6514.7	5710.5	4745.9	4244.4	3786.2	3899.9
75°	2090.3	1992.9	2408.5	3233.2	4522.5	5646.6	4626.4	3325.6	2681.8	2074.7	2209.7
77.5°	589.9	553.1	888.5	1564.3	2720.2	3964.6	2825.0	1598.6	1053.7	625.0	694.5
80°	180.8	175.1	237.3	471.2	1155.2	1898.8	1110.2	476.9	301.9	190.6	201.2
82.5°	107.2	98.2	117.8	171.8	294.5	596.4	286.4	179.2	144.0	96.6	104.8
85°	61.4	57.3	69.5	83.4	99.0	126.8	82.6	85.1	76.9	51.6	54.0
87.5°	25.3	22.9	27.0	26.1	22.9	29.4	22.1	26.1	31.1	20.5	18.9
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)