

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: P881959

Luminaire Tested: **NAV-SB1C-835-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-835-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6329 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

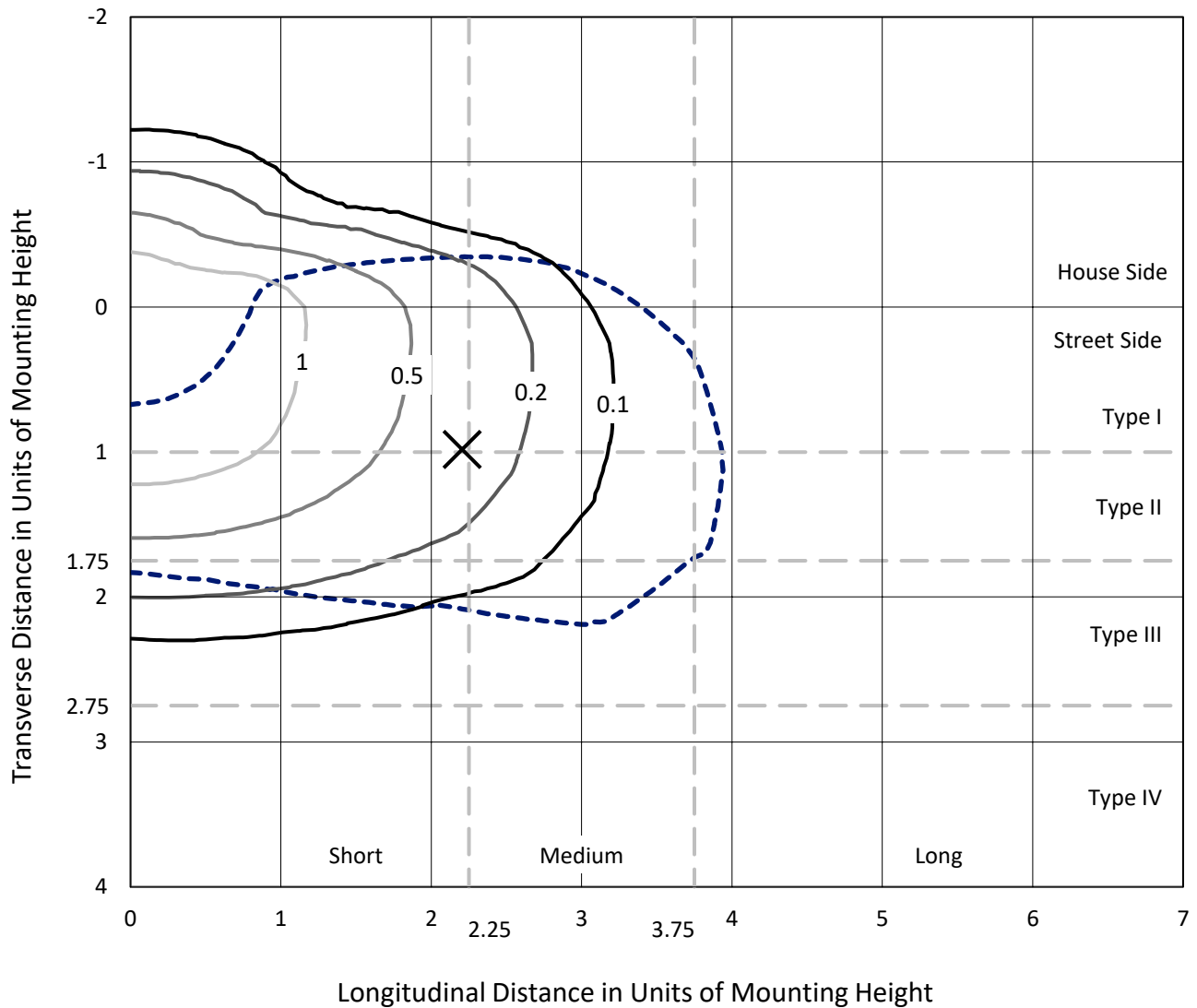
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

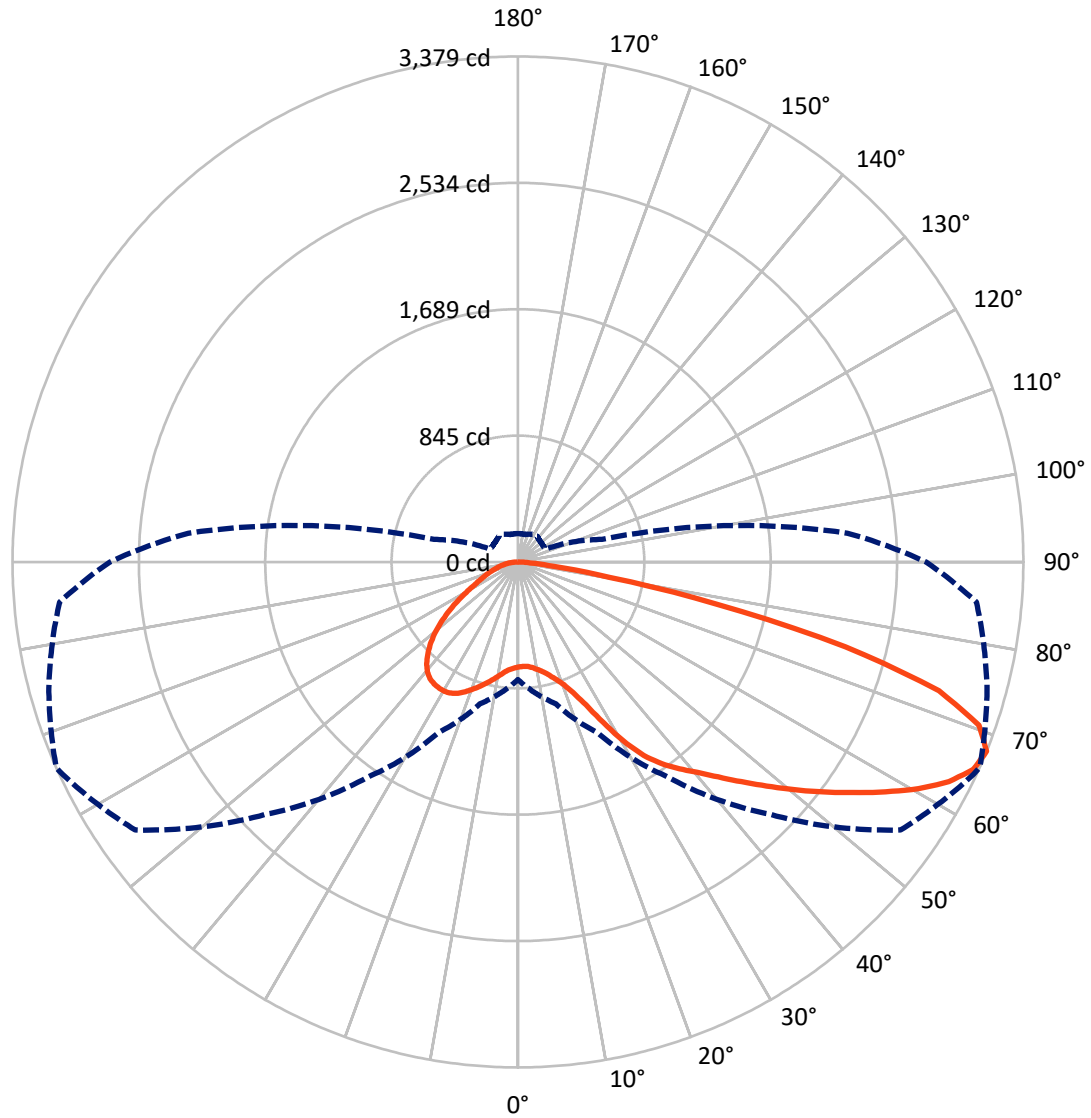
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1573.7	0.0	1573.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4755.3	0.0	4755.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	6329.0	0.0	6329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	1.1
10°-20°	229.9	3.6
20°-30°	443.2	7.0
30°-40°	777.1	12.3
40°-50°	1155.3	18.3
50°-60°	1464.4	23.1
60°-70°	1432.9	22.6
70°-80°	683.5	10.8
80°-90°	73.0	1.2
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°	6329.0	100.0
0°-180°	6329.0	100.0

Coefficient of Utilization



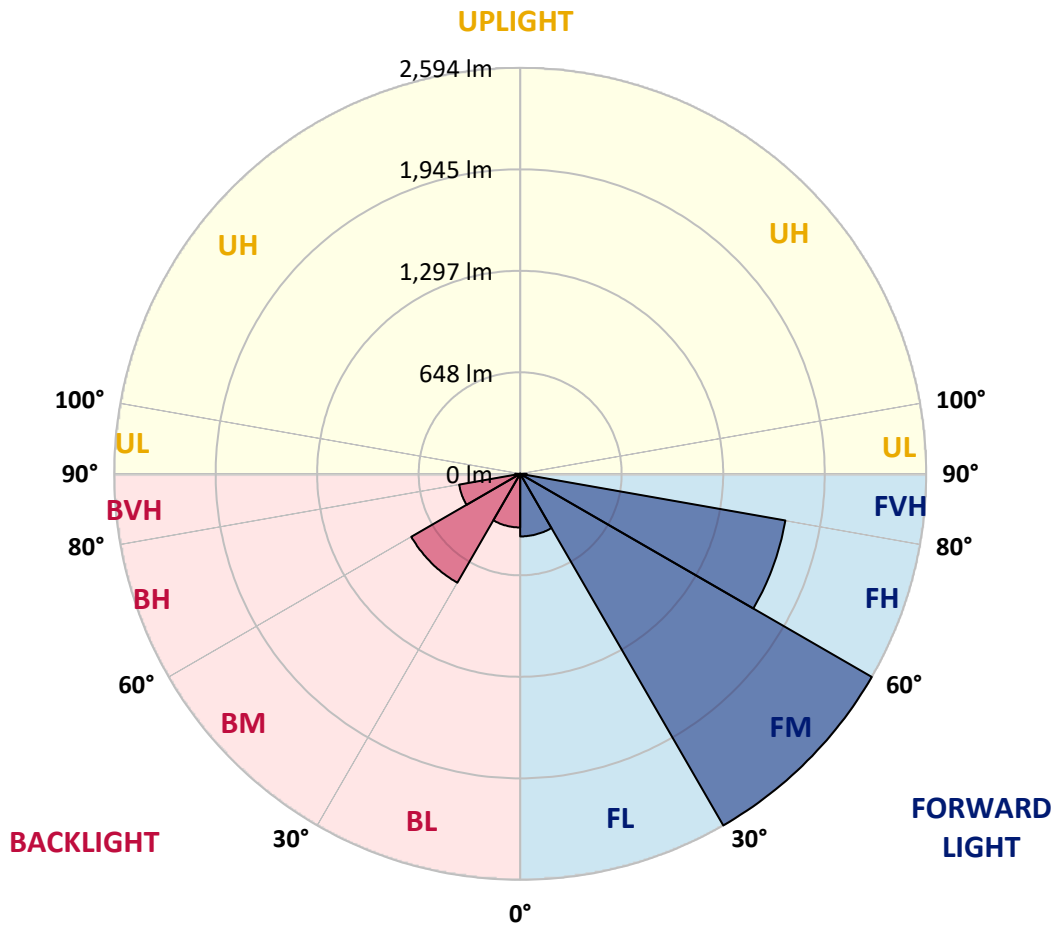
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.9	6.3			
FM (30°-60°)	2593.6	41.0			
FH (60°-80°)	1720.4	27.2			G1/1800
FVH (80°-90°)	41.4	0.7			G1/100
BL (0°-30°)	342.8	5.4	B1/500		
BM (30°-60°)	803.2	12.7	B1/1000		
BH (60°-80°)	396.0	6.3	B1/500		G1/500
BVH (80°-90°)	31.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
2.5°	694.7	698.6	697.6	696.0	695.7	696.3	697.3	698.3	698.0	699.6	702.3
5°	692.7	696.6	696.3	696.3	697.6	700.3	702.0	703.6	702.0	704.0	707.6
7.5°	694.0	697.0	698.3	699.6	703.0	708.0	711.9	715.6	713.6	715.9	720.6
10°	710.9	713.3	714.6	714.6	716.9	722.6	726.6	733.2	731.6	735.2	741.2
12.5°	741.9	744.2	744.2	742.9	744.5	748.2	749.5	756.8	753.8	759.8	765.8
15°	779.8	784.4	780.8	778.5	779.1	782.8	782.4	788.1	785.1	790.1	795.4
17.5°	821.7	827.7	821.7	821.3	820.0	824.0	824.3	829.3	824.0	827.7	831.3
20°	871.2	879.5	874.6	876.2	873.2	874.9	876.5	883.9	875.6	878.2	877.2
22.5°	941.1	951.0	945.7	952.0	950.0	948.7	948.4	961.3	948.4	949.4	939.7
25°	1042.8	1054.8	1045.5	1054.1	1054.1	1058.4	1063.4	1080.1	1058.4	1052.1	1027.2
27.5°	1193.1	1205.1	1186.8	1192.1	1190.5	1201.1	1195.8	1237.0	1213.7	1203.4	1153.2
30°	1374.0	1395.3	1360.7	1359.4	1357.7	1374.7	1382.3	1409.6	1386.0	1375.7	1315.2
32.5°	1569.5	1591.8	1550.6	1538.6	1532.3	1542.6	1536.3	1558.2	1541.9	1526.0	1451.2
35°	1776.4	1798.3	1759.1	1735.8	1710.5	1688.9	1666.3	1672.0	1656.7	1632.4	1554.9
37.5°	1971.9	2012.1	1970.6	1945.6	1899.1	1856.8	1793.7	1767.4	1753.1	1730.8	1652.7
40°	2171.1	2194.0	2162.4	2141.2	2090.6	2024.4	1923.4	1867.8	1848.5	1826.9	1760.7
42.5°	2317.7	2339.7	2322.7	2308.1	2268.5	2191.7	2061.0	1991.5	1963.6	1939.3	1883.1
45°	2434.1	2450.4	2439.8	2445.1	2428.1	2353.6	2203.7	2124.2	2095.3	2065.7	2021.4
47.5°	2481.0	2498.3	2515.3	2546.8	2575.8	2520.9	2357.0	2267.9	2237.3	2207.0	2163.4
50°	2475.7	2493.3	2542.5	2609.7	2699.5	2681.2	2518.6	2420.8	2392.5	2358.0	2317.7
52.5°	2433.1	2453.1	2516.3	2628.0	2771.0	2801.2	2683.2	2578.8	2552.2	2510.9	2470.7
55°	2321.4	2333.4	2428.1	2586.4	2787.9	2885.0	2844.5	2747.0	2720.4	2662.9	2619.0
57.5°	2114.2	2131.5	2269.5	2474.4	2745.4	2941.9	2986.1	2923.9	2898.3	2815.5	2769.6
60°	1843.9	1871.5	2029.4	2286.1	2637.0	2941.6	3114.8	3097.8	3076.6	2965.8	2917.9
62.5°	1537.9	1569.9	1721.8	2020.1	2447.4	2858.1	3195.3	3243.5	3232.5	3104.5	3043.3
65°	1181.1	1203.1	1354.4	1675.9	2152.5	2678.9	3204.6	3342.9	3344.9	3209.9	3108.8
67.5°	786.4	849.6	981.0	1257.6	1757.4	2385.9	3122.8	3359.2	3378.5	3246.2	3075.9
70°	383.7	466.9	595.6	817.4	1257.6	1936.7	2909.0	3225.5	3268.4	3140.4	2879.7
72.5°	159.3	186.2	256.4	403.4	721.9	1306.8	2479.3	2863.1	2942.6	2782.6	2421.1
75°	107.4	116.4	146.6	206.8	328.9	644.4	1788.0	2134.8	2262.9	2101.6	1717.8
77.5°	82.8	88.5	106.7	144.7	195.5	243.7	957.0	1286.6	1352.7	1252.3	893.8
80°	65.2	69.5	79.8	105.4	138.7	130.4	326.2	582.9	621.2	521.1	287.3
82.5°	56.5	58.2	57.2	71.5	92.1	76.1	107.1	215.1	237.4	172.3	93.8
85°	40.9	45.6	47.6	44.2	48.9	38.6	43.9	76.1	83.8	74.8	52.9
87.5°	16.6	24.6	30.3	28.6	18.0	11.0	13.6	22.3	25.6	27.9	17.3
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°	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
2.5°	702.6	705.0	706.6	708.6	710.0	711.9	715.9	718.3	718.6	720.3	719.9
5°	709.0	712.3	715.9	721.3	727.2	732.2	739.9	745.2	747.2	748.9	748.5
7.5°	722.6	727.2	733.9	743.2	751.8	758.5	767.8	774.1	780.4	782.8	783.1
10°	742.9	749.5	759.2	771.8	781.1	789.8	799.4	804.7	811.0	813.7	815.0
12.5°	768.1	775.1	787.8	805.4	814.0	820.0	823.3	822.0	823.3	825.7	826.3
15°	797.1	804.7	819.0	838.0	844.0	838.6	831.3	824.7	823.7	824.3	826.7
17.5°	831.3	837.0	853.6	869.6	865.2	843.3	827.3	816.7	811.4	809.7	812.0
20°	879.2	879.2	892.8	902.8	873.9	836.6	811.7	794.4	783.4	778.8	777.8
22.5°	937.4	932.1	940.7	933.7	872.2	818.0	783.4	753.5	736.9	730.2	729.2
25°	1011.2	1004.9	1002.6	959.3	860.3	788.4	732.2	696.0	681.4	677.7	678.4
27.5°	1122.6	1106.7	1076.4	973.3	838.3	741.9	672.4	638.8	630.5	630.8	631.8
30°	1270.9	1239.0	1164.9	975.6	802.4	676.0	611.2	587.2	583.3	584.9	590.6
32.5°	1408.3	1378.0	1255.3	965.0	747.2	611.5	556.3	540.4	534.4	536.4	539.0
35°	1516.0	1507.7	1339.1	950.0	679.4	551.0	507.1	493.5	481.8	479.2	481.2
37.5°	1617.8	1614.4	1401.9	929.1	612.2	508.1	467.5	449.6	432.6	423.3	423.6
40°	1729.5	1726.2	1443.2	896.8	552.7	470.9	432.0	408.3	387.4	370.4	372.1
42.5°	1855.2	1835.6	1462.8	850.6	502.1	439.3	403.0	371.1	343.5	327.9	328.9
45°	1992.5	1948.3	1462.5	791.8	459.6	410.3	372.1	326.9	301.3	286.6	286.0
47.5°	2138.2	2056.0	1444.5	726.6	418.3	378.4	324.2	289.6	272.7	263.7	261.7
50°	2288.5	2156.8	1413.9	651.8	376.1	342.2	294.3	270.7	257.7	249.4	246.4
52.5°	2429.8	2248.2	1377.0	567.0	333.2	306.9	281.0	262.7	249.1	239.8	235.8
55°	2561.1	2327.0	1324.8	480.2	298.3	283.3	274.7	259.4	243.7	232.8	228.4
57.5°	2677.9	2378.3	1234.7	398.7	273.3	267.0	268.0	253.7	235.8	226.5	220.5
60°	2775.0	2415.8	1101.3	323.2	253.1	251.1	257.7	243.1	222.1	211.5	206.8
62.5°	2833.2	2415.2	937.7	264.7	235.8	236.4	244.1	229.8	208.5	198.5	195.5
65°	2828.2	2356.0	758.2	226.5	219.1	219.8	229.8	215.1	197.2	191.2	190.9
67.5°	2728.1	2211.7	581.6	201.5	200.8	203.8	215.5	205.2	190.2	189.5	190.5
70°	2457.1	1912.0	419.0	181.6	181.9	186.2	201.5	198.9	186.5	187.9	187.5
72.5°	1970.2	1457.8	281.3	160.6	160.9	167.9	188.2	193.9	182.9	200.5	203.2
75°	1312.2	909.1	180.9	138.3	138.7	147.6	176.6	184.2	172.9	199.9	201.5
77.5°	630.5	408.7	131.0	116.4	116.4	124.7	152.6	164.9	147.3	155.3	142.3
80°	217.8	153.6	103.1	93.8	91.8	97.4	128.7	143.0	127.0	117.1	109.7
82.5°	85.8	79.8	82.8	72.8	66.2	69.8	100.1	118.0	93.4	84.5	84.1
85°	49.2	51.9	58.5	48.2	38.2	42.9	73.5	84.8	70.5	62.2	63.5
87.5°	13.3	18.3	26.9	24.9	17.3	18.3	34.9	46.9	40.6	31.3	32.3
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)