

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: P270802

Luminaire Tested: **NVN-AF-02-LED-U-5MQ-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-AF-02-LED-U-5MQ-7027-600  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7425.9 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

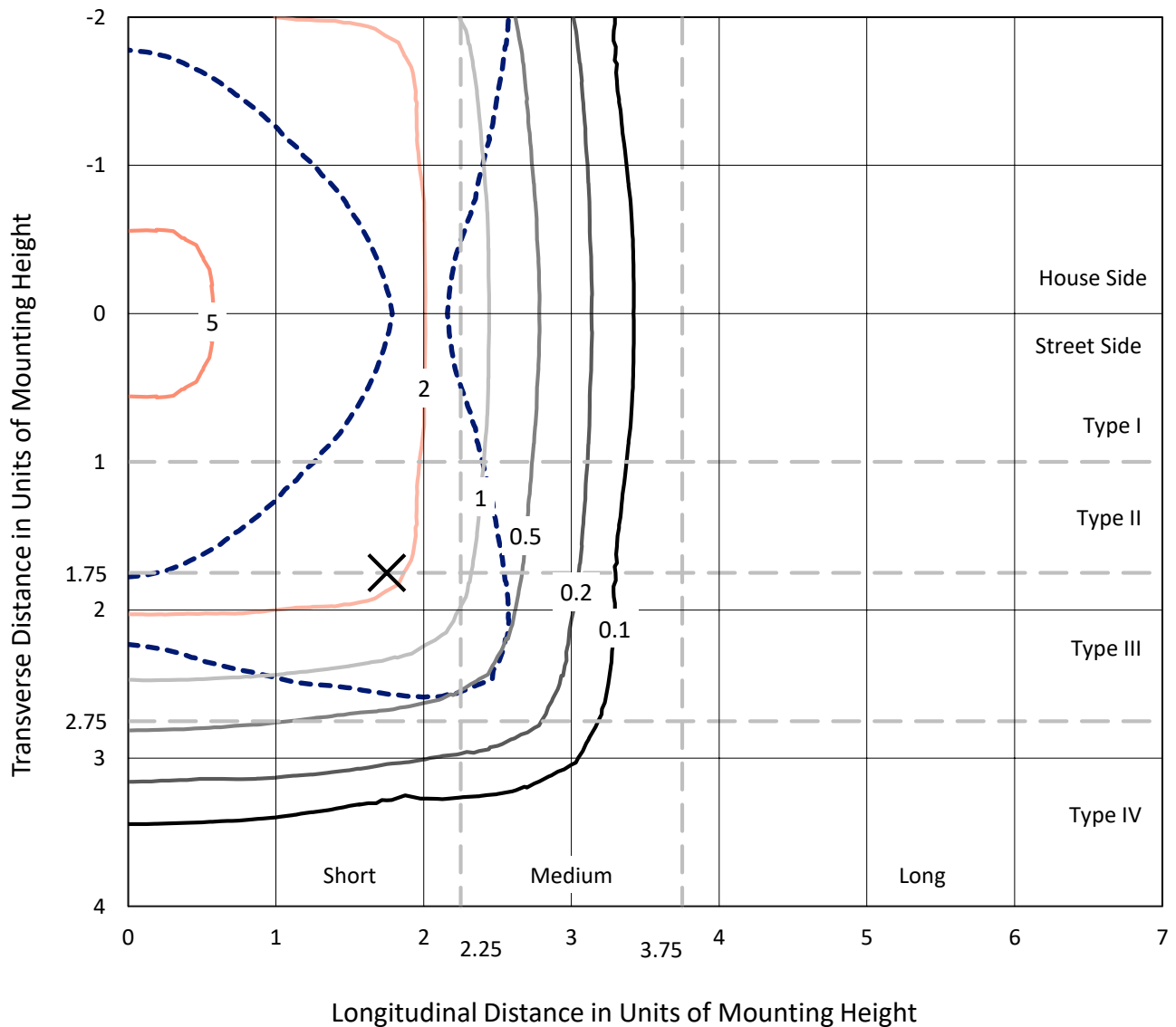
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

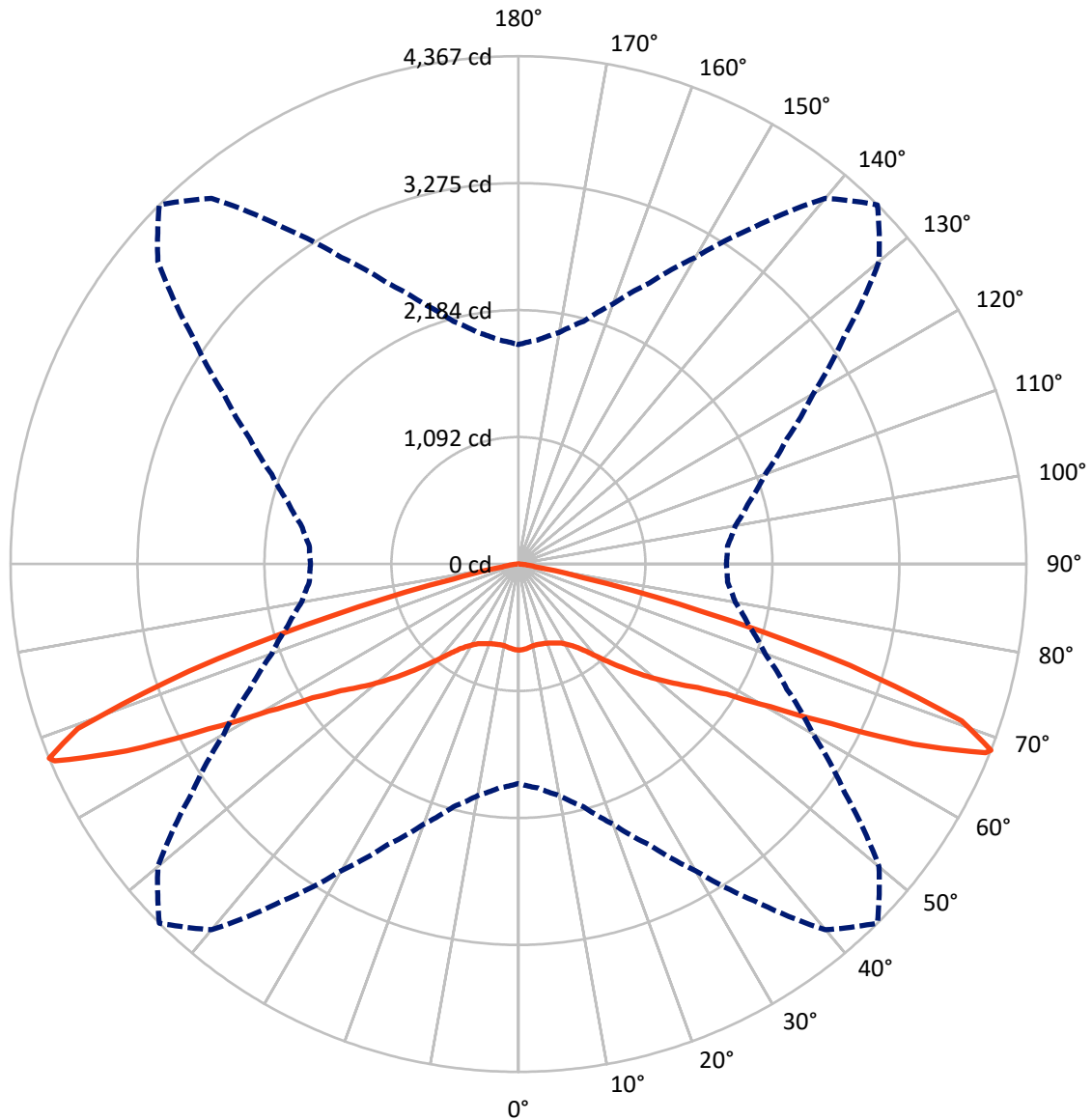


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3713.0	0.0	3713.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3713.0	0.0	3713.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7425.9	0.0	7425.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.3	0.9
10°-20°	201.0	2.7
20°-30°	341.8	4.6
30°-40°	559.3	7.5
40°-50°	999.5	13.5
50°-60°	1688.0	22.7
60°-70°	2617.5	35.2
70°-80°	900.0	12.1
80°-90°	49.5	0.7
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°	7425.9	100.0
0°-180°	7425.9	100.0

**Coefficient of Utilization**



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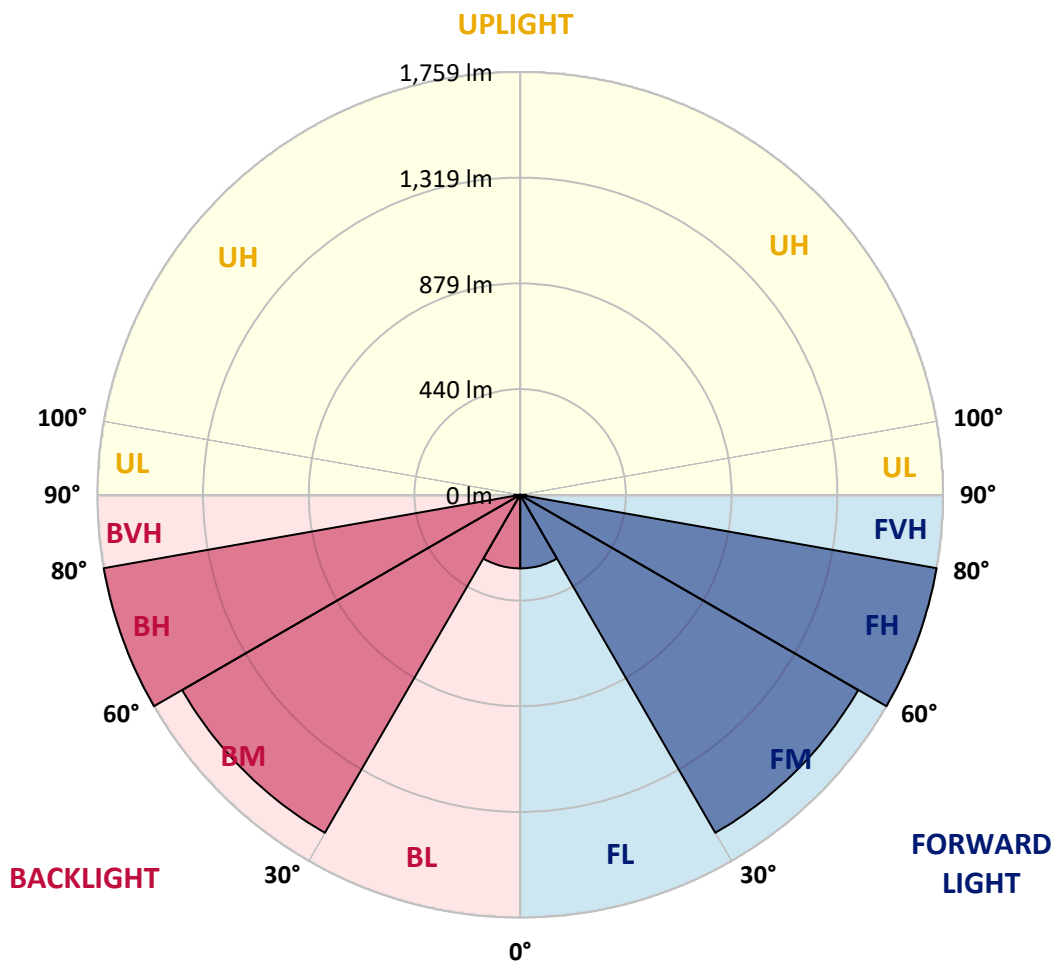
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	306.1	4.1			
FM	(30°-60°)	1623.4	21.9			
FH	(60°-80°)	1758.7	23.7			G1/1800
FVH	(80°-90°)	24.7	0.3			G1/100
BL	(0°-30°)	306.1	4.1	B1/500		
BM	(30°-60°)	1623.4	21.9	B2/2500		
BH	(60°-80°)	1758.7	23.7	B3/2500		G1/1800
BVH	(80°-90°)	24.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7
2.5°	743.9	743.9	744.9	744.3	743.0	741.7	740.4	738.9	738.0	737.1	736.3
5°	736.3	736.3	737.6	736.7	735.7	734.4	733.5	732.1	731.2	730.3	730.7
7.5°	726.2	727.1	728.0	727.5	725.7	725.3	723.9	723.5	722.5	721.2	721.7
10°	717.6	718.0	719.0	718.5	718.0	716.7	716.2	715.7	715.3	713.4	713.1
12.5°	708.9	709.8	710.7	711.2	710.7	711.2	711.6	712.0	711.6	710.7	710.7
15°	702.0	703.1	704.5	705.8	706.2	708.9	710.7	712.5	714.0	714.4	713.1
17.5°	698.4	699.8	701.7	704.5	706.6	709.8	713.1	715.7	718.0	718.5	717.0
20°	698.1	699.4	702.0	705.3	709.4	713.4	718.5	722.5	724.8	726.2	724.8
22.5°	701.1	703.1	706.6	710.7	715.7	721.2	727.5	732.1	736.7	738.4	737.1
25°	710.3	712.0	716.2	721.2	726.6	733.5	739.8	745.8	750.4	752.6	750.8
27.5°	729.3	729.9	734.4	739.8	746.2	752.2	760.3	763.0	766.7	768.9	766.7
30°	756.3	757.1	761.3	769.8	775.7	783.5	788.1	790.8	794.9	797.2	794.5
32.5°	797.2	798.1	801.6	809.9	815.3	821.2	826.7	828.4	832.5	835.3	832.2
35°	854.8	856.8	859.9	865.3	869.9	874.4	878.5	877.1	879.9	883.6	880.3
37.5°	934.0	933.6	934.4	938.5	943.1	945.8	952.3	949.0	951.8	954.9	953.1
40°	1026.4	1026.4	1025.9	1033.1	1034.9	1037.7	1044.5	1040.4	1044.1	1047.8	1044.5
42.5°	1131.3	1133.2	1135.5	1141.3	1146.3	1147.2	1150.5	1148.7	1153.2	1156.4	1153.2
45°	1252.3	1255.0	1257.7	1271.5	1273.6	1275.6	1277.7	1271.9	1276.9	1279.6	1278.6
47.5°	1377.8	1382.9	1388.7	1402.9	1412.0	1416.0	1417.9	1411.0	1411.4	1415.5	1416.0
50°	1519.8	1525.1	1531.2	1547.1	1555.7	1563.0	1565.1	1557.4	1558.4	1561.6	1562.4
52.5°	1650.6	1657.1	1669.8	1691.1	1703.5	1716.1	1717.1	1707.5	1711.6	1713.8	1712.1
55°	1774.0	1782.1	1798.9	1827.5	1849.8	1874.9	1886.3	1875.8	1875.8	1874.0	1873.1
57.5°	1917.6	1926.7	1943.9	1977.2	2008.2	2044.1	2074.9	2085.3	2104.5	2110.8	2100.9
60°	2134.1	2143.5	2161.3	2205.0	2244.1	2296.3	2347.4	2388.8	2456.0	2492.3	2459.6
62.5°	2331.9	2346.5	2388.2	2464.6	2549.2	2646.0	2758.3	2838.5	2960.8	3021.7	2939.3
65°	2286.8	2316.4	2398.3	2518.3	2692.8	2903.1	3131.8	3351.3	3604.2	3733.7	3566.5
67.5°	1997.7	2022.7	2110.8	2250.4	2468.3	2757.9	3113.5	3568.2	4089.9	4332.6	4036.7
68°	1887.1	1934.1	2021.7	2160.5	2380.1	2664.7	3044.4	3535.5	4104.9	4367.2	4047.6
70°	1447.0	1463.8	1547.9	1672.6	1909.3	2188.6	2571.9	3131.8	3775.1	4045.2	3716.5
72.5°	687.6	697.5	752.2	874.9	1025.4	1252.7	1591.1	2119.0	2698.8	2979.9	2651.9
75°	252.0	254.2	266.9	296.0	352.4	438.0	600.2	928.6	1374.6	1639.2	1380.1
77.5°	136.0	136.5	141.5	148.7	158.7	170.0	194.7	261.0	421.0	572.9	444.8
80°	85.5	85.0	90.0	95.9	102.8	108.2	110.5	118.2	133.2	155.9	143.2
82.5°	43.7	47.7	59.1	65.4	75.5	77.3	75.0	74.6	79.1	85.5	88.3
85°	24.2	21.4	31.4	41.9	45.5	46.8	47.3	44.6	43.7	42.8	45.0
87.5°	12.2	11.4	13.7	20.9	22.3	18.1	18.7	15.9	10.9	10.9	11.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7
2.5°	735.4	735.7	734.9	734.9	734.9	735.4	734.9	734.4
5°	729.3	730.3	730.3	730.7	731.2	731.2	731.2	731.2
7.5°	720.7	721.2	722.1	722.1	722.1	722.1	722.1	722.1
10°	712.5	711.6	711.2	710.3	710.3	708.9	709.4	709.8
12.5°	708.5	706.6	705.8	704.5	703.5	702.0	702.0	702.6
15°	710.3	707.5	704.8	703.9	703.1	702.0	701.1	701.7
17.5°	714.0	710.7	707.5	705.8	703.9	702.6	702.0	702.6
20°	721.7	717.0	712.0	708.9	705.3	704.5	703.1	704.5
22.5°	732.1	726.6	720.4	714.4	710.3	708.5	706.6	708.0
25°	744.9	738.9	732.6	725.7	721.2	719.8	717.6	717.6
27.5°	762.7	757.6	752.2	745.8	741.2	739.8	736.3	736.3
30°	790.8	785.7	780.7	775.2	770.7	769.4	764.8	764.8
32.5°	828.1	822.6	819.4	814.9	811.2	809.0	803.5	803.1
35°	878.2	873.2	872.7	869.4	865.7	866.2	860.8	859.9
37.5°	950.0	945.8	947.3	944.5	941.3	943.9	940.9	940.9
40°	1041.8	1040.4	1041.8	1040.0	1040.4	1040.9	1038.1	1039.1
42.5°	1152.7	1149.1	1157.2	1156.4	1155.0	1158.6	1152.3	1147.8
45°	1280.5	1279.1	1287.4	1288.7	1286.0	1288.3	1276.9	1276.4
47.5°	1419.2	1419.2	1426.5	1425.6	1422.8	1423.4	1409.7	1401.0
50°	1563.8	1563.0	1570.1	1568.4	1564.7	1564.3	1550.1	1541.5
52.5°	1714.3	1714.3	1724.7	1719.7	1711.1	1707.0	1689.8	1678.5
55°	1880.7	1878.4	1881.7	1865.3	1848.5	1836.1	1814.8	1806.2
57.5°	2091.3	2064.9	2042.1	2021.2	1997.7	1983.1	1958.0	1949.0
60°	2390.1	2319.6	2289.2	2247.3	2208.2	2188.6	2155.5	2137.6
62.5°	2803.9	2687.0	2604.2	2511.9	2422.8	2360.0	2309.5	2287.3
65°	3282.2	3027.6	2817.1	2619.3	2451.5	2318.3	2244.1	2220.9
67.5°	3464.1	2996.7	2633.3	2349.5	2146.0	1987.2	1898.5	1879.9
68°	3425.4	2925.7	2548.3	2257.7	2053.0	1893.1	1804.9	1787.9
70°	3021.7	2468.3	2070.0	1780.7	1589.7	1437.4	1375.0	1348.3
72.5°	2060.0	1585.1	1215.9	972.7	829.9	733.5	676.2	656.7
75°	948.2	640.8	428.0	319.6	271.5	248.3	230.5	226.1
77.5°	276.5	201.0	172.8	160.1	150.6	142.3	136.5	136.0
80°	131.4	123.2	119.7	111.4	102.8	95.0	89.7	90.5
82.5°	88.3	86.0	86.0	77.8	64.0	55.1	45.5	41.0
85°	46.8	48.7	51.5	48.7	42.3	31.4	20.4	22.3
87.5°	15.9	18.1	19.1	18.7	16.8	12.8	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)