

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: P239405

Luminaire Tested: **UTLD-AF24-90-D-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-9-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-90-D-U-5WQ
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9012 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 94
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

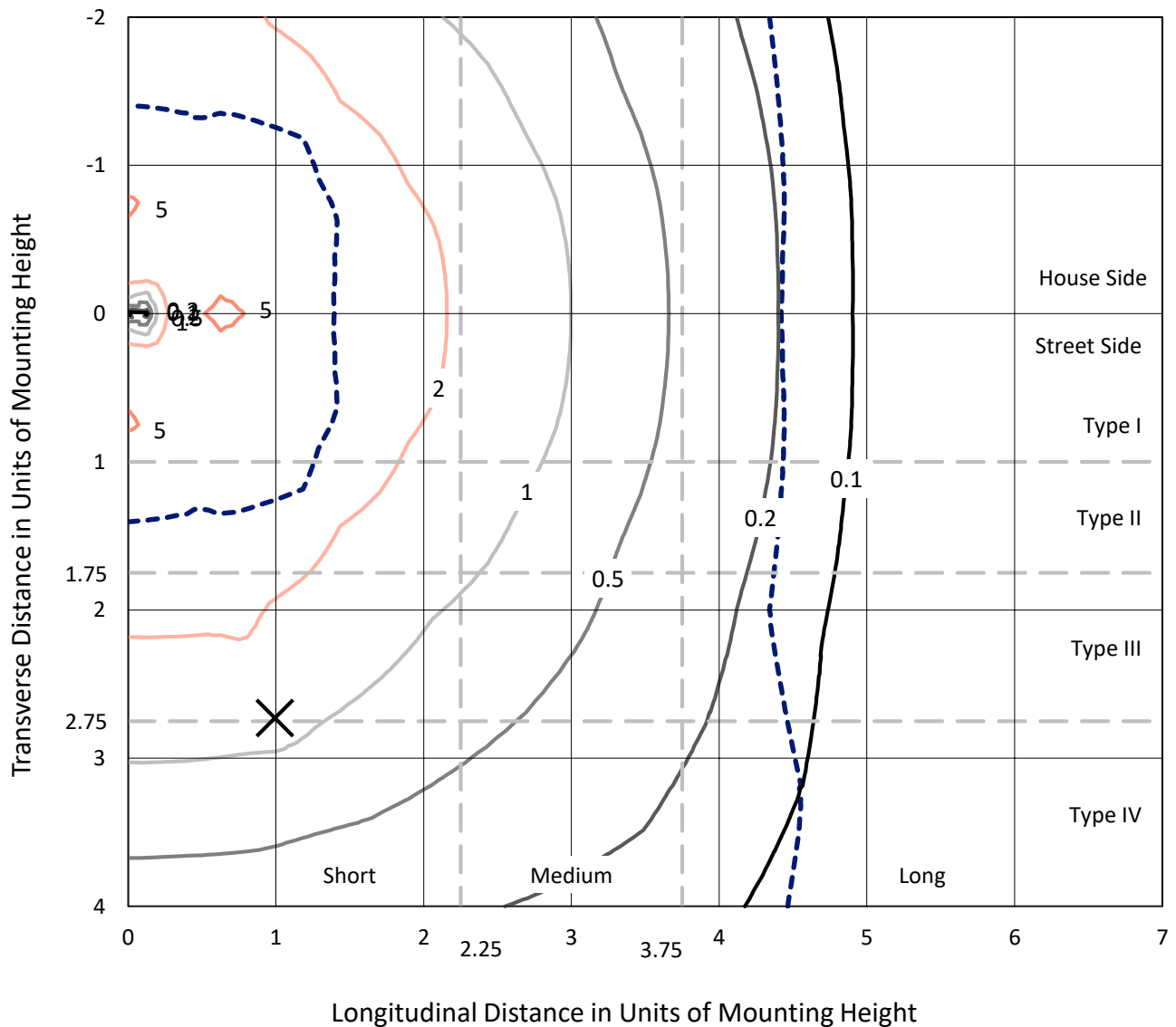


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

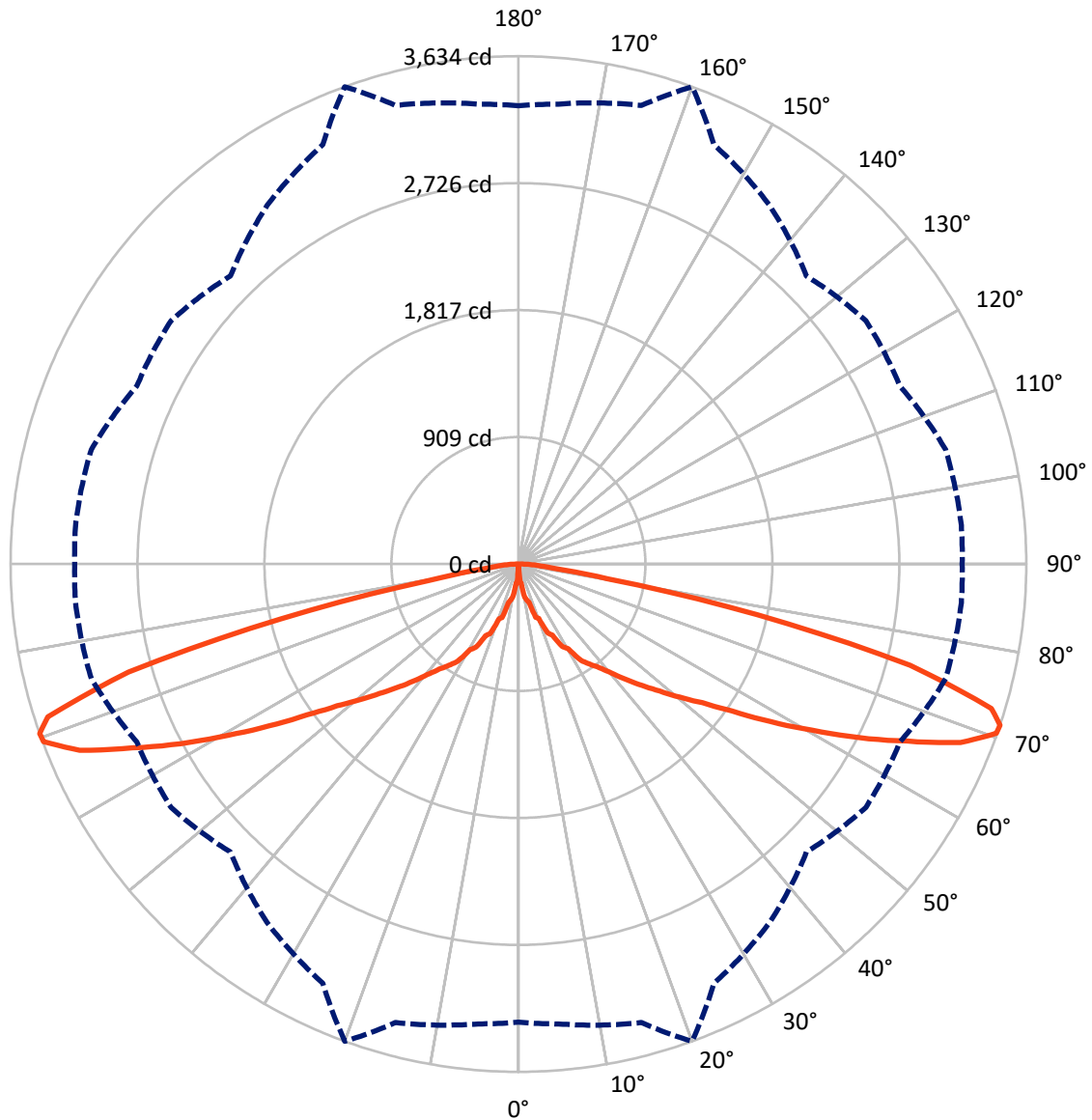


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 20-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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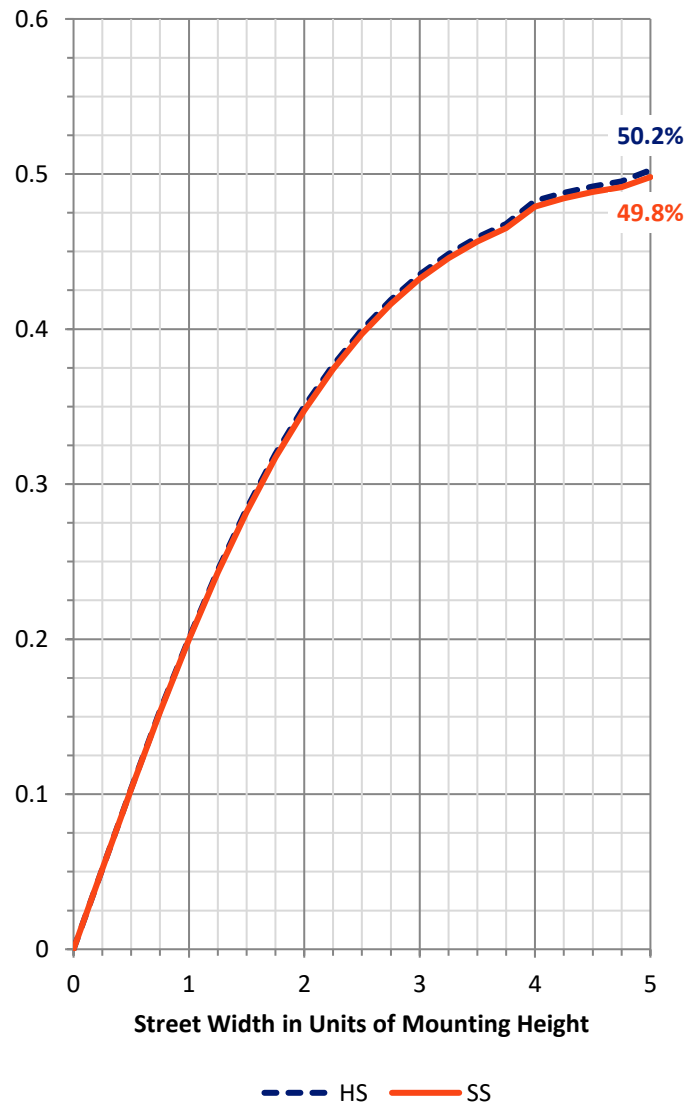
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4506.0	0.0	4506.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4506.0	0.0	4506.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9012.0	0.0	9012.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.1
10°-20°	74.4	0.8
20°-30°	252.1	2.8
30°-40°	513.8	5.7
40°-50°	879.9	9.8
50°-60°	1550.2	17.2
60°-70°	2640.0	29.3
70°-80°	2730.7	30.3
80°-90°	364.8	4.0
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°	9012.0	100.0
0°-180°	9012.0	100.0



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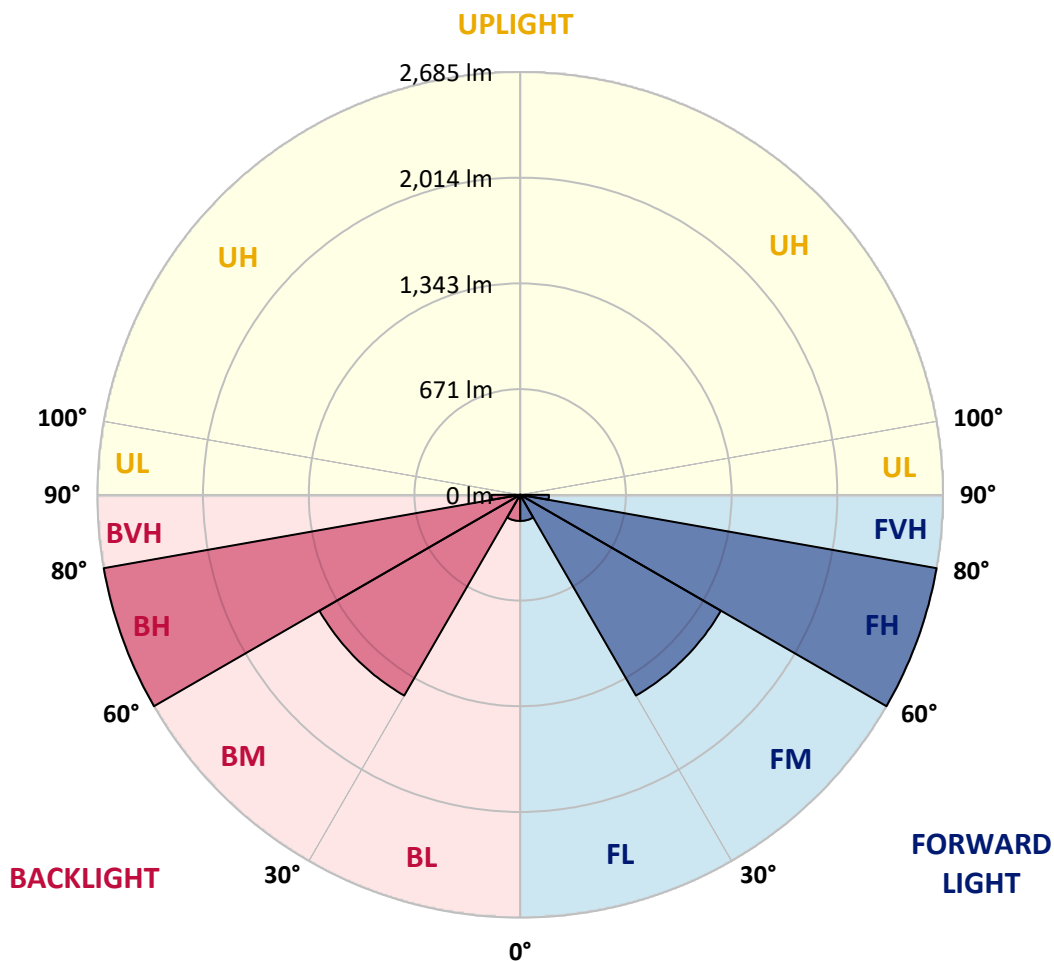
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.3	1.8			
FM (30°-60°)	1471.9	16.3			
FH (60°-80°)	2685.4	29.8			G2/5000
FVH (80°-90°)	182.4	2.0			G2/225
BL (0°-30°)	166.3	1.8	B1/500		
BM (30°-60°)	1471.9	16.3	B2/2500		
BH (60°-80°)	2685.4	29.8	B4/5000		G2/5000
BVH (80°-90°)	182.4	2.0			G2/225
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°	20°	25°	35°	45°	55°	65°	75°	85°
0°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2.5°	20.0	19.0	18.0	33.0	17.0	14.0	7.0	4.0	3.0	3.0	3.0
5°	71.0	71.0	71.0	136.0	70.0	68.0	59.0	52.0	14.0	4.0	3.0
7.5°	124.0	124.0	96.0	138.0	84.0	72.0	69.0	67.0	54.0	11.0	5.0
10°	198.0	197.0	191.0	237.0	183.0	137.0	83.0	70.0	62.0	34.0	21.0
12.5°	213.0	211.0	206.0	263.0	199.0	194.0	150.0	103.0	138.0	206.0	175.0
15°	319.9	321.9	282.9	285.9	251.0	205.0	225.0	266.0	221.0	237.0	202.0
17.5°	351.9	349.9	342.9	400.9	328.9	274.9	305.9	311.9	266.0	310.9	316.9
20°	436.9	430.9	403.9	415.9	350.9	383.9	358.9	364.9	409.9	401.9	408.9
22.5°	506.9	505.9	492.9	535.9	438.9	431.9	410.9	444.9	452.9	438.9	504.9
25°	575.9	569.9	513.9	563.9	498.9	496.9	490.9	486.9	537.9	584.9	616.9
27.5°	654.9	651.9	631.9	667.9	580.9	529.9	532.9	566.9	597.9	613.9	718.9
30°	730.9	729.9	662.9	704.9	644.9	605.9	586.9	618.9	676.9	774.9	838.8
32.5°	836.8	832.8	785.9	821.8	701.9	663.9	649.9	672.9	755.9	803.9	871.8
35°	951.8	947.8	850.8	879.8	768.9	715.9	689.9	742.9	775.9	847.8	924.8
37.5°	1011.8	1004.8	954.8	940.8	868.8	781.9	745.9	778.9	822.8	903.8	981.8
40°	1082.8	1079.8	1038.8	1024.8	929.8	843.8	789.9	826.8	888.8	969.8	1058.8
42.5°	1167.8	1165.8	1128.8	1129.8	1009.8	921.8	843.8	896.8	961.8	1068.8	1167.8
45°	1270.8	1263.8	1238.8	1239.8	1111.8	1007.8	920.8	989.8	1038.8	1164.8	1278.8
47.5°	1386.7	1385.7	1357.7	1357.7	1214.8	1108.8	1012.8	1106.8	1160.8	1309.8	1397.7
50°	1519.7	1517.7	1497.7	1497.7	1349.7	1218.8	1123.8	1236.8	1295.8	1439.7	1536.7
52.5°	1665.7	1664.7	1659.7	1648.7	1499.7	1372.7	1263.8	1392.7	1443.7	1604.7	1688.7
55°	1839.7	1852.7	1848.7	1856.7	1696.7	1563.7	1433.7	1572.7	1627.7	1789.7	1853.7
57.5°	2060.6	2056.6	2076.6	2127.6	1927.6	1807.7	1647.7	1805.7	1825.7	1978.6	2038.6
60°	2262.6	2267.6	2306.6	2414.6	2167.6	2085.6	1902.6	2053.6	2054.6	2185.6	2230.6
62.5°	2478.5	2487.5	2554.5	2737.5	2420.5	2366.6	2181.6	2297.6	2287.6	2401.6	2446.5
65°	2721.5	2733.5	2824.5	3056.4	2702.5	2635.5	2443.5	2536.5	2533.5	2685.5	2681.5
67.5°	3016.4	3031.4	3113.4	3411.4	3037.4	2886.5	2664.5	2777.5	2767.5	2918.5	2907.5
70°	3252.4	3268.4	3357.4	3629.3	3262.4	3080.4	2851.5	2973.4	2981.4	3123.4	3139.4
71°	3279.4	3303.4	3397.4	3634.3	3310.4	3133.4	2914.5	3035.4	3012.4	3164.4	3181.4
72.5°	3199.4	3222.4	3345.4	3540.3	3330.4	3158.4	3006.4	3079.4	2989.4	3132.4	3132.4
75°	2715.5	2715.5	2888.5	2895.5	3039.4	3044.4	3068.4	3004.4	2722.5	2732.5	2687.5
77.5°	1694.7	1712.7	1893.6	1745.7	2212.6	2582.5	2835.5	2560.5	2085.6	1892.6	1745.7
80°	643.9	635.9	845.8	645.9	1175.8	1743.7	2134.6	1750.7	1105.8	728.9	546.9
82.5°	148.0	189.0	262.0	254.0	391.9	769.9	1185.8	777.9	354.9	275.9	213.0
85°	73.0	77.0	131.0	139.0	156.0	211.0	392.9	242.0	182.0	181.0	133.0
87.5°	30.0	35.0	73.0	71.0	70.0	88.0	80.0	113.0	116.0	123.0	78.0
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°
0°	3.0
2.5°	3.0
5°	3.0
7.5°	5.0
10°	21.0
12.5°	167.0
15°	211.0
17.5°	315.9
20°	410.9
22.5°	515.9
25°	613.9
27.5°	732.9
30°	845.8
32.5°	903.8
35°	948.8
37.5°	1004.8
40°	1076.8
42.5°	1174.8
45°	1283.8
47.5°	1404.7
50°	1544.7
52.5°	1692.7
55°	1852.7
57.5°	2043.6
60°	2222.6
62.5°	2445.5
65°	2675.5
67.5°	2904.5
70°	3125.4
71°	3175.4
72.5°	3113.4
75°	2677.5
77.5°	1714.7
80°	519.9
82.5°	199.0
85°	127.0
87.5°	73.0
90°	0.0

(END OF REPORT)