

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: P266493

Luminaire Tested: **UTLD-AF24-90-D-U-5WQ-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-9-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-90-D-U-5WQ-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 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: 7829.3 lumens
Efficiency: N/A
Efficacy: 83.3 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: B3 - 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

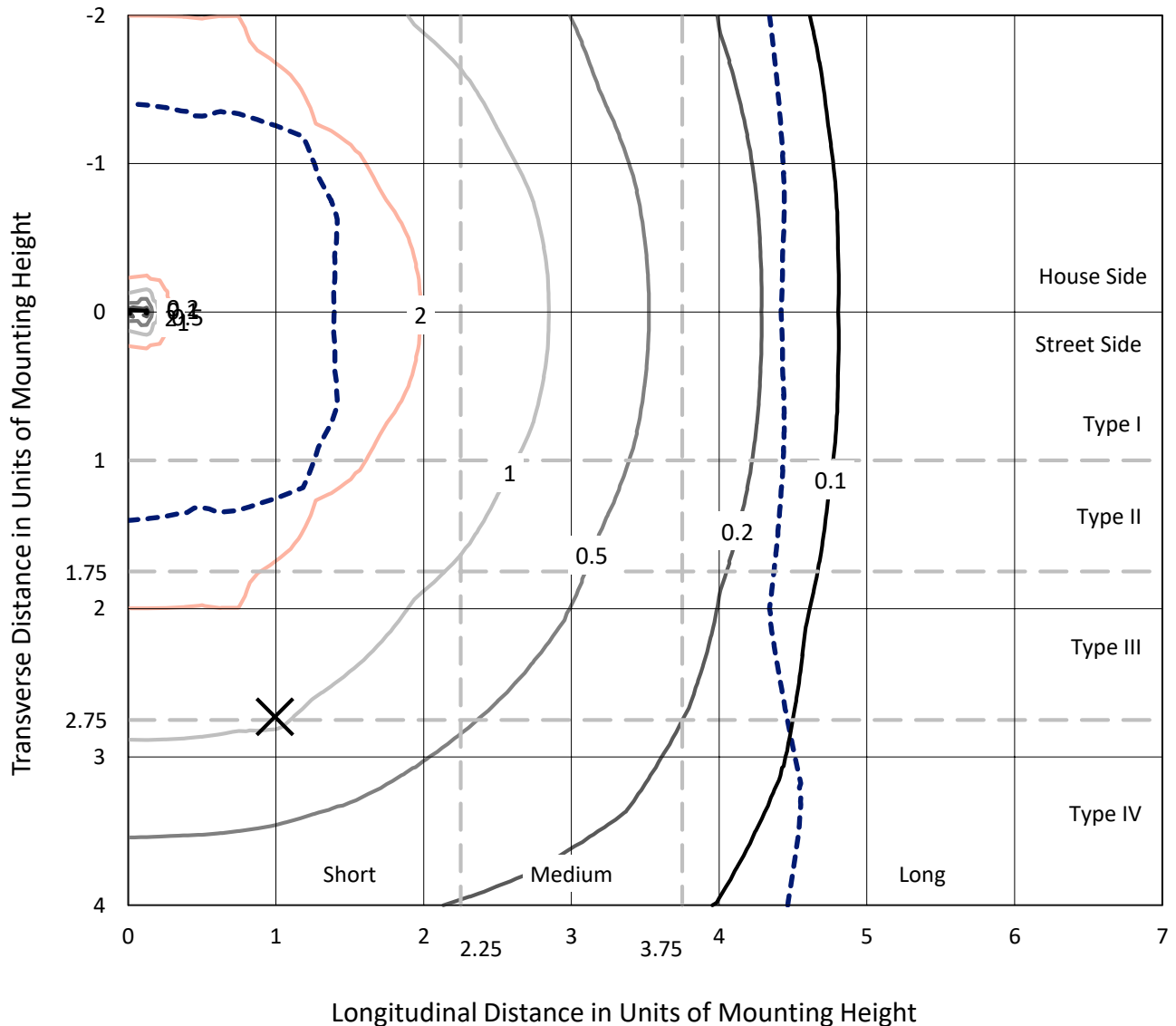


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

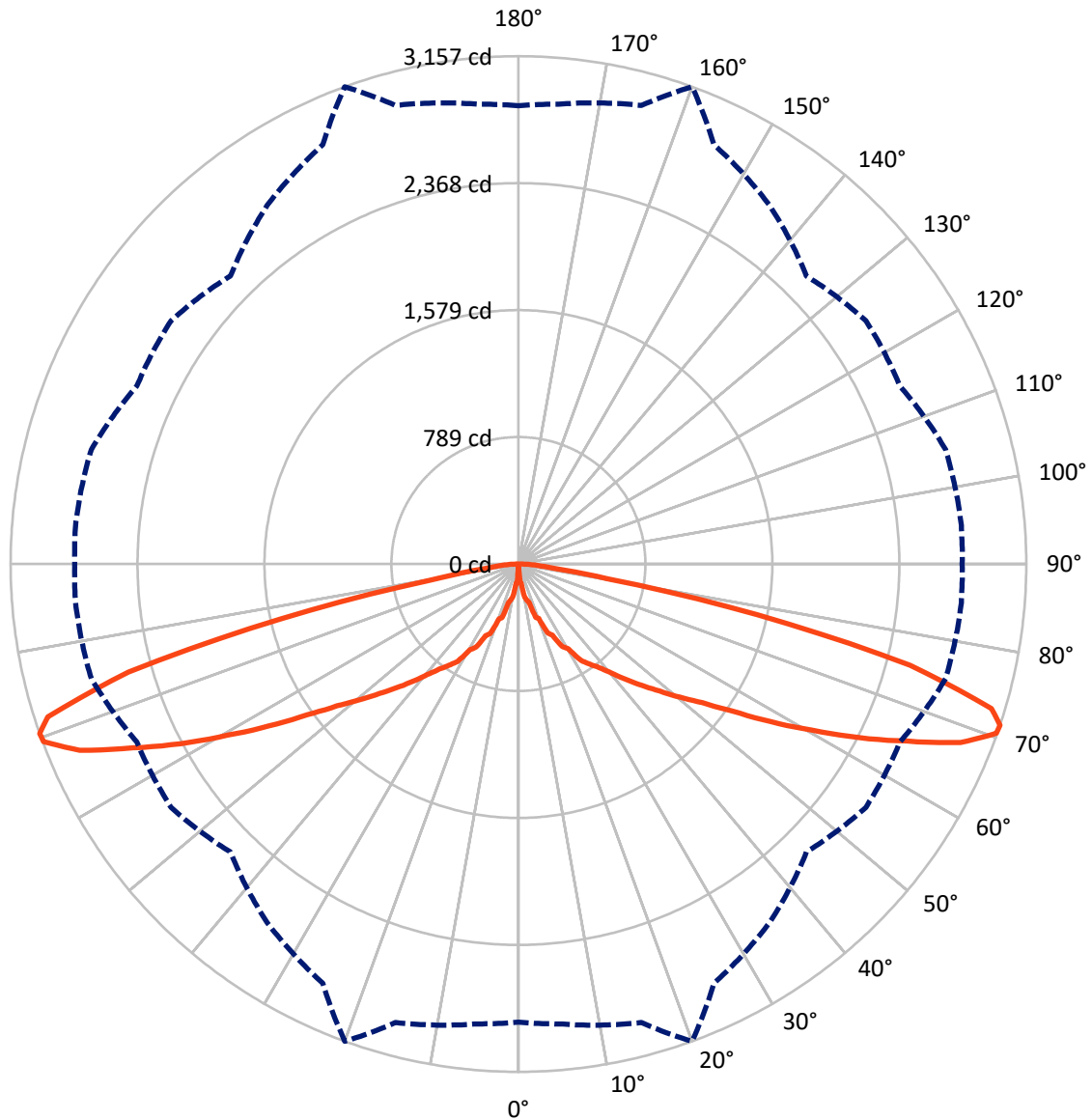


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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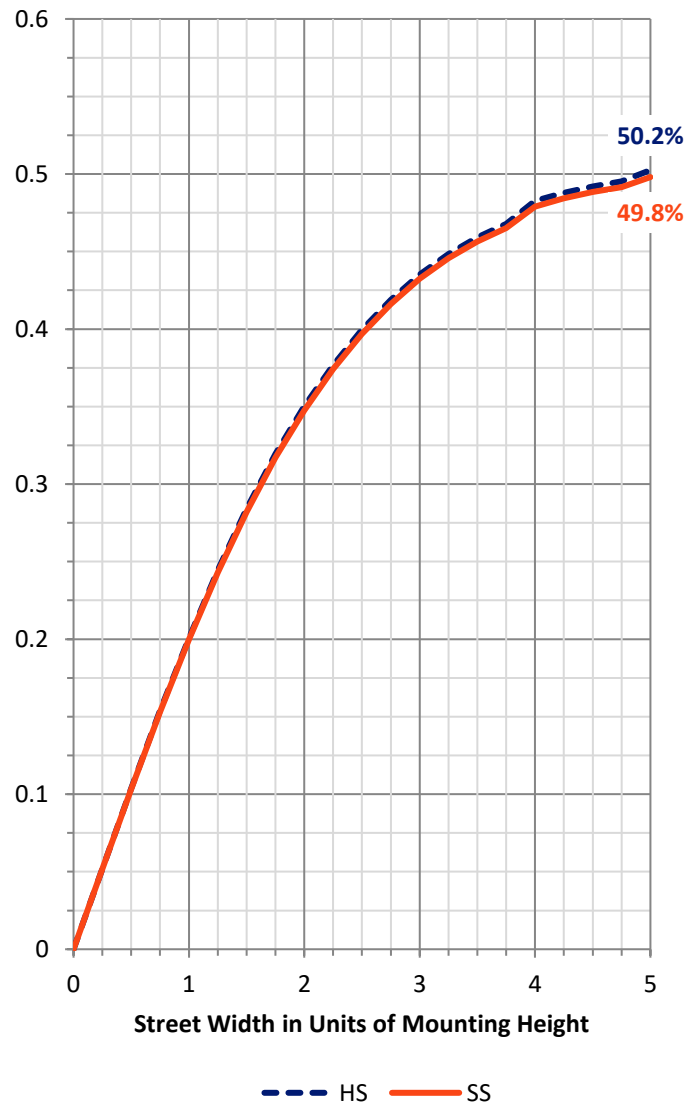
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3914.6	0.0	3914.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3914.6	0.0	3914.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	7829.3	0.0	7829.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	64.7	0.8
20°-30°	219.0	2.8
30°-40°	446.3	5.7
40°-50°	764.4	9.8
50°-60°	1346.7	17.2
60°-70°	2293.6	29.3
70°-80°	2372.4	30.3
80°-90°	316.9	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°	7829.3	100.0
0°-180°	7829.3	100.0



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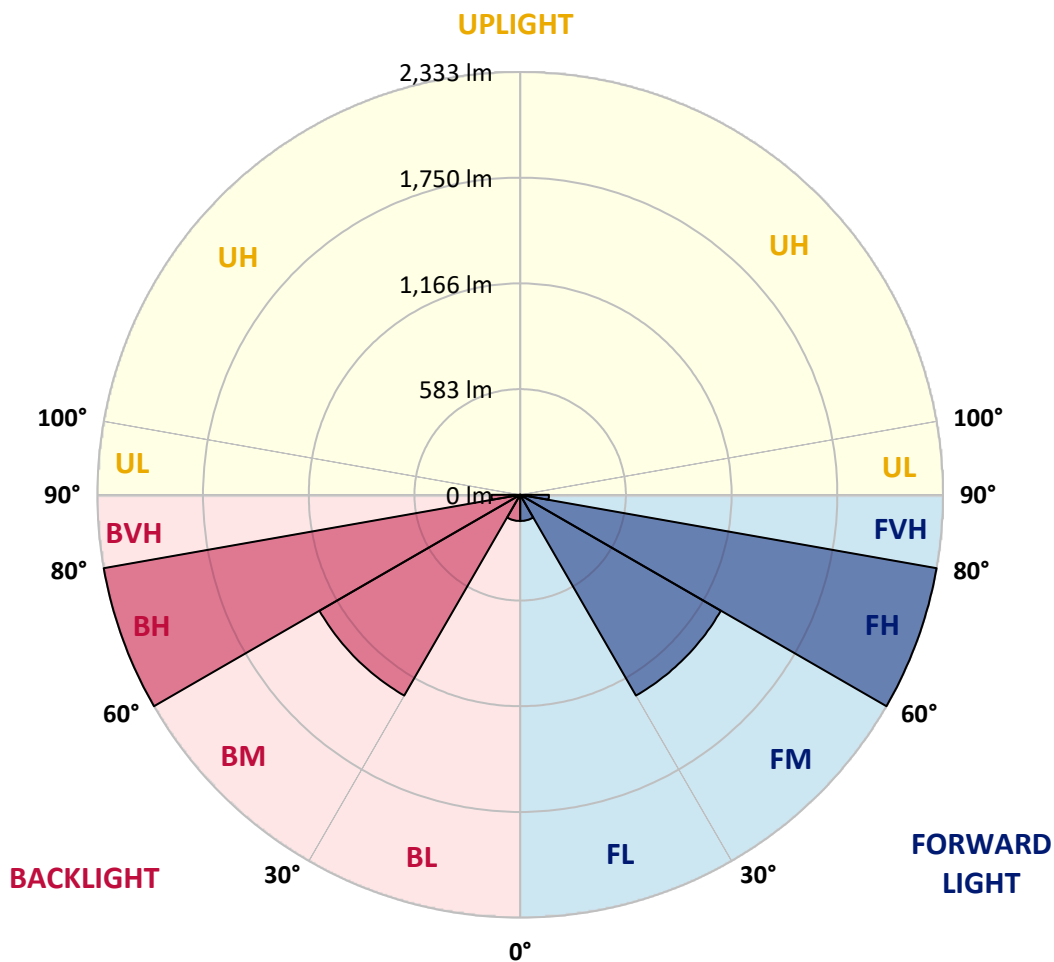
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	144.4	1.8			
FM (30°-60°)	1278.7	16.3			
FH (60°-80°)	2333.0	29.8			G2/5000
FVH (80°-90°)	158.5	2.0			G2/225
BL (0°-30°)	144.4	1.8	B1/500		
BM (30°-60°)	1278.7	16.3	B2/2500		
BH (60°-80°)	2333.0	29.8	B3/2500		G2/5000
BVH (80°-90°)	158.5	2.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	20°	25°	35°	45°	55°	65°	75°	85°
0°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
2.5°	17.3	16.4	15.6	28.7	14.7	12.1	6.1	3.5	2.6	2.6	2.6
5°	61.7	61.7	61.7	118.1	60.7	59.1	51.3	45.2	12.1	3.5	2.6
7.5°	107.6	107.6	83.5	119.8	72.9	62.5	59.9	58.2	46.9	9.5	4.3
10°	171.9	171.0	165.8	205.8	159.0	118.9	72.1	60.7	53.9	29.6	18.2
12.5°	185.1	183.3	178.9	228.4	172.8	168.5	130.3	89.6	119.8	178.9	152.1
15°	277.9	279.7	245.9	248.4	218.0	178.0	195.4	231.0	192.0	205.8	175.4
17.5°	305.8	303.9	298.0	348.4	285.8	238.9	265.8	271.0	231.0	270.1	275.3
20°	379.5	374.4	350.9	361.4	304.9	333.5	311.8	317.0	356.1	349.3	355.3
22.5°	440.3	439.5	428.2	465.6	381.3	375.2	356.9	386.5	393.5	381.3	438.6
25°	500.4	495.1	446.5	489.8	433.4	431.6	426.4	423.0	467.3	508.1	535.8
27.5°	568.9	566.3	549.0	580.2	504.7	460.3	462.9	492.5	519.4	533.4	624.5
30°	634.9	634.1	575.9	612.4	560.3	526.3	509.9	537.6	588.0	673.2	728.7
32.5°	727.0	723.6	682.7	714.1	609.8	576.7	564.6	584.5	656.8	698.3	757.5
35°	826.9	823.4	739.1	764.4	668.0	621.9	599.3	645.3	674.1	736.6	803.4
37.5°	879.0	873.0	829.6	817.4	754.8	679.3	647.9	676.7	714.8	785.2	853.0
40°	940.6	938.1	902.4	890.3	807.8	733.0	686.1	718.4	772.3	842.5	919.9
42.5°	1014.5	1012.7	980.7	981.5	877.3	800.8	733.0	779.1	835.7	928.6	1014.5
45°	1103.9	1097.9	1076.2	1077.1	965.9	875.6	800.0	859.9	902.4	1011.9	1110.9
47.5°	1204.7	1203.9	1179.6	1179.6	1055.4	963.3	879.9	961.5	1008.4	1137.9	1214.2
50°	1320.2	1318.5	1301.1	1301.1	1172.6	1058.8	976.3	1074.5	1125.7	1250.8	1335.1
52.5°	1447.1	1446.2	1441.9	1432.3	1302.9	1192.6	1097.9	1209.9	1254.3	1394.1	1467.0
55°	1598.3	1609.6	1606.0	1612.9	1473.9	1358.4	1245.6	1366.3	1414.1	1554.7	1610.4
57.5°	1790.2	1786.6	1804.1	1848.4	1674.7	1570.4	1431.4	1568.7	1586.0	1718.9	1771.1
60°	1965.6	1970.1	2003.8	2097.6	1883.1	1811.9	1652.9	1784.2	1785.0	1898.7	1937.9
62.5°	2153.2	2161.1	2219.3	2378.3	2102.9	2056.0	1895.2	1996.0	1987.4	2086.4	2125.5
65°	2364.2	2374.8	2453.8	2655.3	2347.8	2289.6	2122.9	2203.6	2201.0	2333.1	2329.6
67.5°	2620.5	2633.7	2704.8	2963.7	2638.9	2507.7	2314.8	2412.9	2404.3	2535.5	2525.9
70°	2825.6	2839.5	2916.7	3153.1	2834.2	2676.1	2477.3	2583.3	2590.2	2713.5	2727.4
71°	2849.1	2869.8	2951.6	3157.4	2876.0	2722.3	2532.0	2637.1	2617.1	2749.2	2763.8
72.5°	2779.5	2799.5	2906.3	3075.6	2893.4	2744.0	2611.9	2675.3	2597.1	2721.3	2721.3
75°	2359.0	2359.0	2509.3	2515.4	2640.6	2644.9	2665.7	2610.1	2365.1	2374.0	2334.8
77.5°	1472.3	1488.0	1645.2	1516.6	1922.3	2243.5	2463.3	2224.6	1811.9	1644.3	1516.6
80°	559.4	552.5	734.9	561.1	1021.5	1514.8	1854.6	1520.9	960.6	633.2	475.2
82.5°	128.5	164.2	227.6	220.7	340.5	668.8	1030.1	675.7	308.4	239.8	185.1
85°	63.4	66.8	113.7	120.7	135.6	183.3	341.4	210.3	158.1	157.3	115.5
87.5°	26.1	30.5	63.4	61.7	60.7	76.4	69.4	98.2	100.8	106.9	67.7
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°	2.6
2.5°	2.6
5°	2.6
7.5°	4.3
10°	18.2
12.5°	145.0
15°	183.3
17.5°	274.5
20°	356.9
22.5°	448.3
25°	533.4
27.5°	636.7
30°	734.9
32.5°	785.2
35°	824.4
37.5°	873.0
40°	935.5
42.5°	1020.7
45°	1115.2
47.5°	1220.3
50°	1342.0
52.5°	1470.5
55°	1609.6
57.5°	1775.4
60°	1930.8
62.5°	2124.6
65°	2324.4
67.5°	2523.2
70°	2715.2
71°	2758.7
72.5°	2704.8
75°	2326.2
77.5°	1489.7
80°	451.7
82.5°	172.8
85°	110.3
87.5°	63.4
90°	0.0

(END OF REPORT)