

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: P157098

Luminaire Tested: **UTLD-E02-LED-E-U-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157098
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33670)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-SL4-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4247.2 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

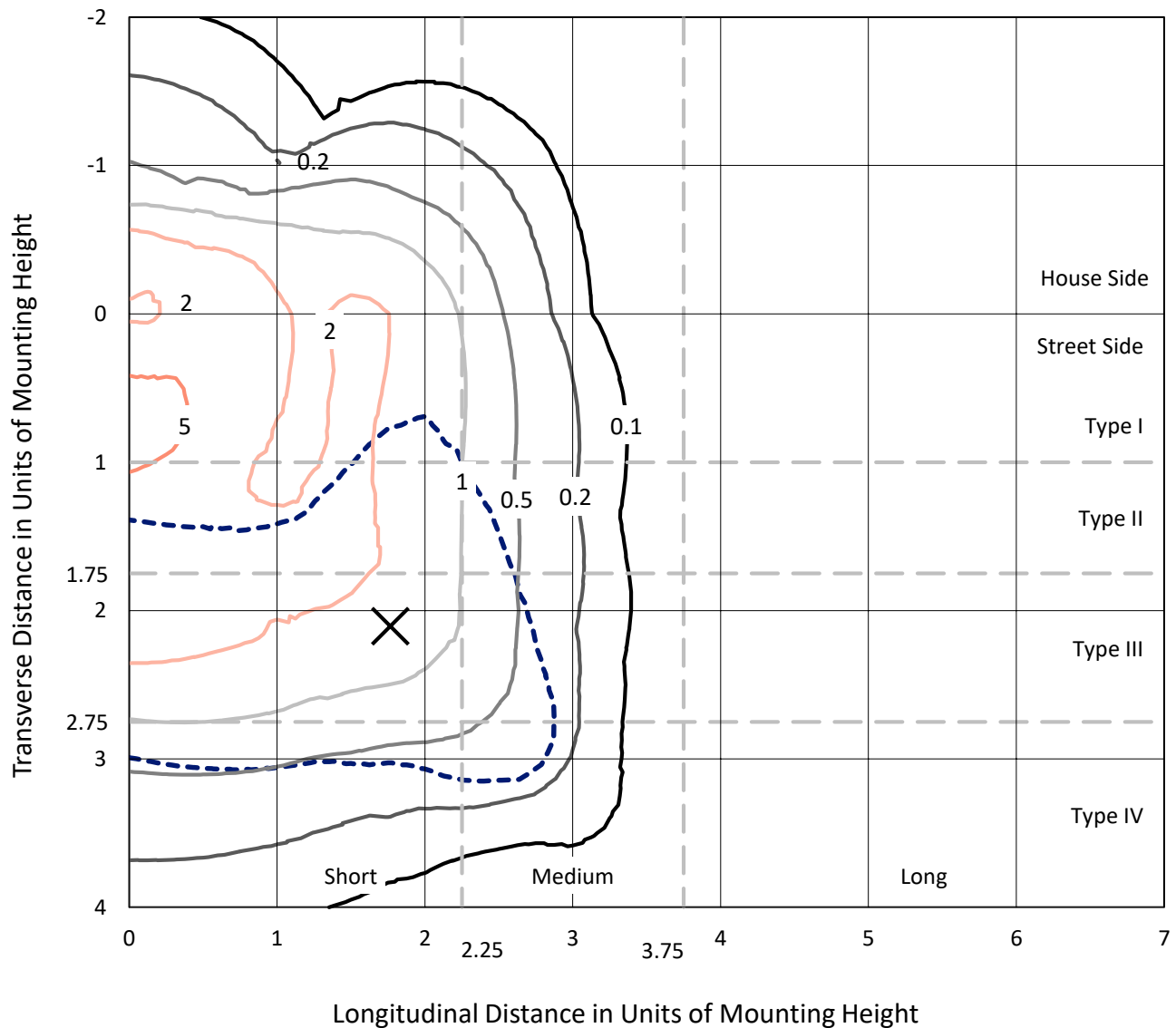


REPORT NUMBER: P157098

CATALOG NUMBER: UTLD-E02-LED-E-U-SL4-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

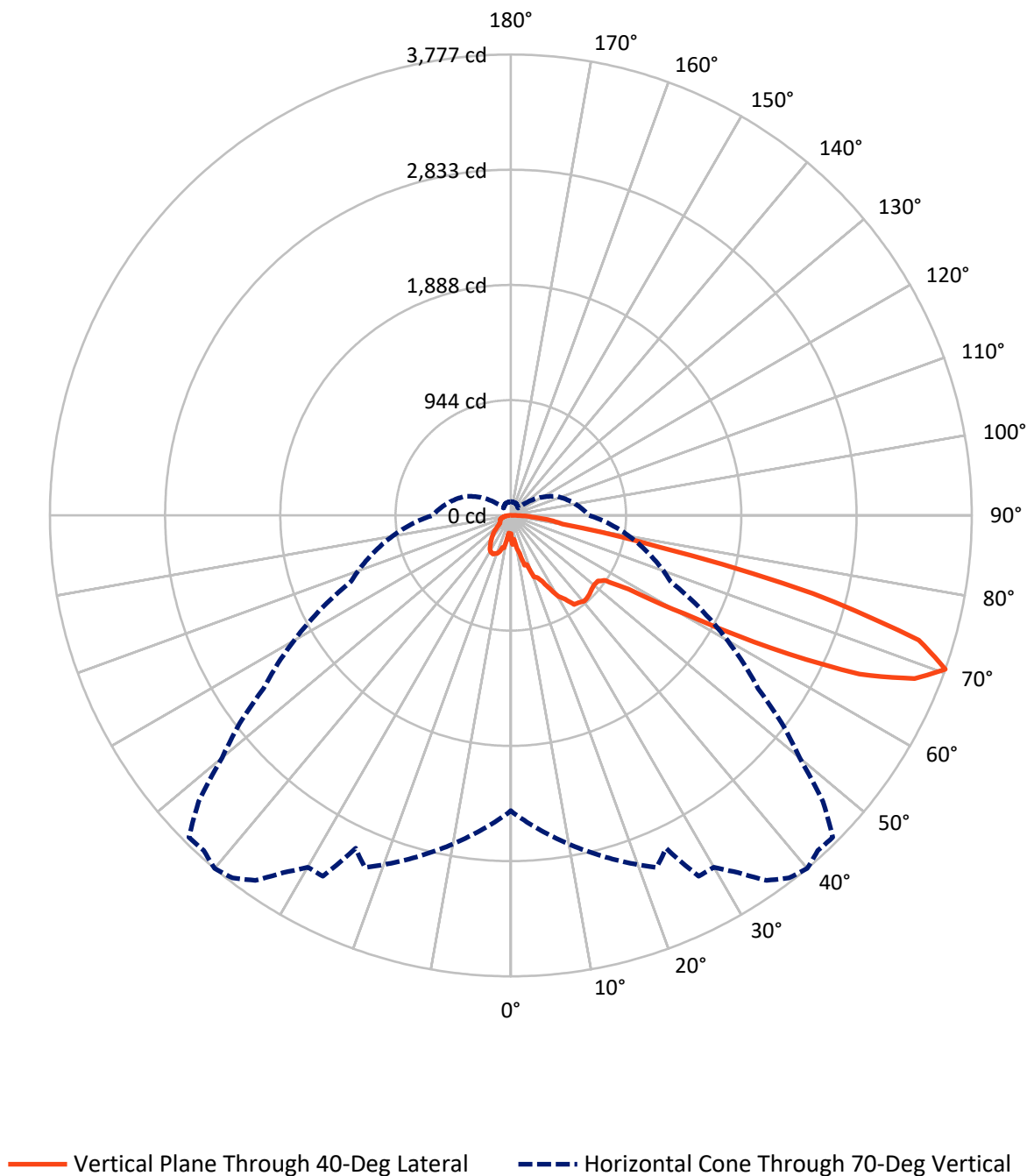


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Short - Semi-Cutoff

REPORT NUMBER: P157098

CATALOG NUMBER: UTLD-E02-LED-E-U-SL4-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P157098

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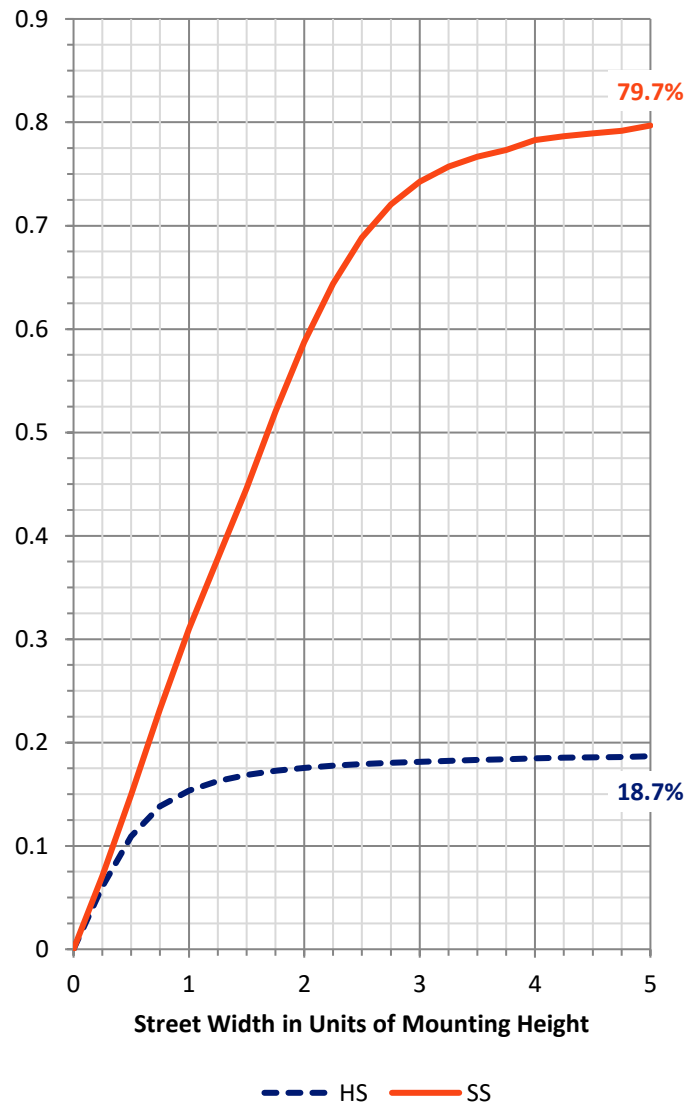
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	804.8	0.0	804.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3442.4	0.0	3442.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	4247.2	0.0	4247.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	0.4
10°-20°	94.6	2.2
20°-30°	232.5	5.5
30°-40°	389.0	9.2
40°-50°	492.2	11.6
50°-60°	763.9	18.0
60°-70°	1435.7	33.8
70°-80°	708.1	16.7
80°-90°	112.2	2.6
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°	4247.2	100.0
0°-180°	4247.2	100.0

Coefficient of Utilization



REPORT NUMBER: P157098

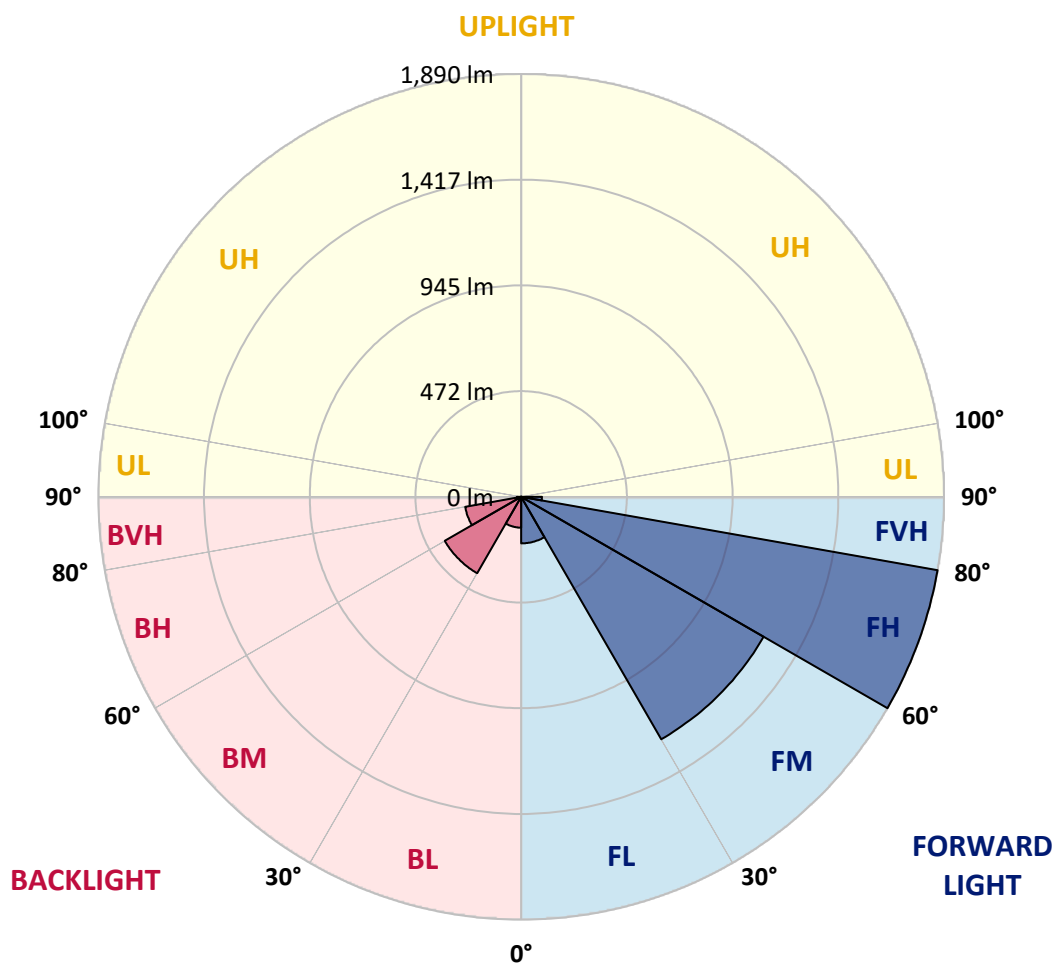
CATALOG NUMBER: UTLD-E02-LED-E-U-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	208.2	4.9			
FM	(30°-60°)	1251.2	29.5			
FH	(60°-80°)	1889.8	44.5			G2/5000
FVH	(80°-90°)	93.3	2.2			G1/100
BL	(0°-30°)	138.0	3.2	B1/500		
BM	(30°-60°)	393.9	9.3	B1/1000		
BH	(60°-80°)	254.0	6.0	B1/500		G1/500
BVH	(80°-90°)	18.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P157098

CATALOG NUMBER: UTLD-E02-LED-E-U-SL4-8030

CANDELA DISTRIBUTION (FULL):

	0°	0.3°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°
0°	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7
2.5°	237.2	232.1	237.2	236.3	240.5	239.7	239.7	237.2	236.3	238.8	238.0
5°	199.2	200.0	195.8	191.6	194.1	194.1	194.1	192.4	191.6	195.0	197.5
7.5°	295.4	296.2	293.7	289.5	295.4	289.5	287.0	271.8	244.8	200.0	197.5
10°	298.8	297.9	292.0	288.6	289.5	289.5	287.8	285.3	274.3	275.1	280.2
12.5°	387.4	387.4	373.9	362.9	368.0	357.9	301.3	290.3	285.3	320.7	353.6
15°	413.6	392.5	379.8	362.9	368.8	373.0	430.4	434.7	443.9	423.7	420.3
17.5°	484.5	485.3	466.7	462.5	512.3	490.4	440.6	434.7	442.3	422.8	419.5
20°	572.2	570.5	513.1	590.8	527.5	524.1	511.5	506.4	526.7	536.8	481.1
22.5°	595.0	595.9	626.2	659.2	607.7	586.6	563.8	563.8	559.6	552.8	524.1
25°	730.9	732.6	649.0	691.2	634.7	660.0	649.0	626.2	608.5	597.5	584.9
27.5°	800.1	789.1	759.6	811.9	779.0	752.0	702.2	658.3	677.7	678.6	659.2
30°	914.0	913.2	890.4	888.7	824.6	791.7	801.8	773.9	756.2	770.6	713.2
32.5°	1090.4	1095.5	947.0	935.1	913.2	909.0	872.7	854.1	815.3	817.8	768.9
35°	1289.6	1291.3	1076.9	1001.8	1014.5	971.4	912.4	897.2	865.1	895.5	826.3
37.5°	1369.0	1367.3	1187.5	1075.2	1055.8	996.8	968.9	955.4	915.7	906.4	847.4
40°	1498.9	1499.8	1258.4	1108.2	1118.3	1043.2	1019.5	975.7	920.8	925.0	856.7
42.5°	1542.0	1542.0	1279.5	1115.8	1138.5	1072.7	1024.6	977.3	929.2	920.8	865.9
45°	1559.7	1560.5	1269.4	1121.7	1113.2	1066.8	1011.9	969.7	920.0	909.0	858.3
47.5°	1557.2	1556.3	1251.6	1120.0	1103.1	1047.4	1011.9	965.5	909.8	895.5	849.1
50°	1538.6	1540.3	1246.6	1110.7	1115.8	1039.8	1012.8	960.5	909.8	888.7	848.2
52.5°	1558.0	1562.2	1269.4	1114.9	1140.2	1066.8	1022.1	970.6	923.3	893.8	857.5
55°	1987.6	2018.0	1404.4	1187.5	1238.1	1152.0	1077.8	1025.4	972.3	939.4	908.1
57.5°	2825.7	2828.2	1958.1	1500.6	1601.1	1455.9	1321.7	1277.0	1181.6	1138.5	1126.7
60°	3143.0	3154.0	2627.3	2155.6	2363.2	2137.8	1977.5	1891.4	1762.3	1636.5	1609.5
62.5°	3332.1	3339.7	2986.0	2592.7	2878.9	2731.2	2639.2	2628.2	2499.9	2393.6	2337.9
65°	3459.5	3460.4	3240.9	2876.3	3188.6	3056.9	3077.2	3184.4	3154.0	3137.1	3066.2
67.5°	3316.0	3321.9	3370.9	3100.0	3406.3	3323.6	3426.6	3548.1	3560.0	3569.2	3495.8
70°	2418.0	2431.5	3123.6	3008.8	3332.9	3328.7	3469.6	3651.1	3744.8	3776.9	3724.5
72.5°	1532.7	1520.9	2066.9	2210.4	2436.6	2642.5	2908.4	3196.2	3437.6	3496.7	3451.9
75°	1071.9	1068.5	1114.9	1138.5	1325.1	1376.5	1647.5	2075.4	2386.0	2557.3	2564.9
77.5°	680.3	680.3	672.7	635.5	657.5	636.4	649.9	744.4	919.1	1252.5	1321.7
80°	562.1	562.9	499.6	460.0	484.5	479.4	455.8	445.6	433.8	427.9	460.0
82.5°	379.0	373.0	423.7	389.9	402.6	397.5	388.2	377.3	360.4	329.2	301.3
85°	278.5	274.3	259.1	232.9	247.3	244.8	239.7	227.9	219.4	193.3	177.2
87.5°	209.3	207.6	189.1	151.9	160.4	150.2	135.9	121.5	111.4	95.4	83.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P157098

CATALOG NUMBER: UTLD-E02-LED-E-U-SL4-8030

CANDELA DISTRIBUTION (continued):

	45°	47.5°	50°	52.5°	55°	67.5°	90°	112.5°	135°	157.5°	180°
0°	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7	147.7
2.5°	238.0	238.0	238.0	232.9	227.0	168.0	146.0	144.3	148.5	207.6	230.4
5°	195.0	191.6	190.7	190.7	192.4	227.0	142.6	146.0	205.9	144.3	143.5
7.5°	195.0	191.6	189.9	187.4	187.4	177.2	139.3	200.0	139.3	162.0	230.4
10°	280.2	271.8	270.1	273.5	266.7	255.7	203.4	212.7	194.1	229.6	230.4
12.5°	352.8	352.8	351.1	359.5	355.3	250.7	222.8	205.9	281.0	242.2	308.1
15°	379.8	351.9	357.9	356.2	348.6	363.8	275.1	259.9	266.7	281.9	297.1
17.5°	432.1	462.5	480.2	458.3	400.9	380.6	331.7	265.9	304.7	321.6	361.2
20°	465.0	460.8	473.5	454.1	429.6	437.2	397.5	386.5	331.7	319.0	331.7
22.5°	508.9	514.0	539.3	508.9	498.0	502.2	451.5	396.7	323.2	382.3	362.1
25°	564.6	583.2	596.7	581.5	540.2	593.3	504.7	469.3	350.3	339.3	368.0
27.5°	648.2	649.0	643.1	624.6	614.4	620.3	565.5	446.5	350.3	324.1	318.2
30°	695.4	703.0	729.2	685.3	671.0	674.3	573.1	482.8	353.6	283.6	299.6
32.5°	789.1	764.7	749.5	697.1	727.5	676.9	637.2	504.7	339.3	264.2	265.9
35°	808.5	801.8	810.2	736.0	739.3	736.0	617.8	514.0	314.0	231.3	210.2
37.5°	849.9	829.6	817.0	774.8	786.6	719.1	619.5	508.9	296.2	190.7	170.5
40°	856.7	859.2	850.7	781.5	793.4	698.8	606.0	499.6	276.8	154.5	157.0
42.5°	875.2	856.7	841.5	781.5	795.0	690.4	617.0	492.0	249.8	133.4	146.9
45°	867.6	849.9	833.0	779.8	787.4	692.1	628.8	485.3	222.0	124.9	146.9
47.5°	858.3	843.1	822.0	783.2	786.6	706.4	651.6	481.9	188.2	124.1	147.7
50°	860.9	844.0	823.7	794.2	793.4	718.2	675.2	499.6	151.9	124.9	146.0
52.5°	871.0	852.4	829.6	806.9	804.3	770.6	800.9	515.7	123.2	124.9	143.5
55°	932.6	911.5	899.7	906.4	903.9	1001.8	1165.6	533.4	106.3	124.1	140.1
57.5°	1187.5	1173.1	1181.6	1232.2	1244.0	1405.2	1500.6	557.0	99.6	122.4	136.7
60°	1702.3	1714.1	1683.8	1730.2	1705.7	1697.3	1648.3	602.6	95.4	119.8	133.4
62.5°	2375.8	2336.2	2228.1	2218.9	2128.5	1861.8	1667.7	614.4	92.8	117.3	129.1
65°	3067.1	2909.2	2688.1	2603.7	2443.4	1945.4	1574.0	571.4	91.2	115.6	123.2
67.5°	3525.4	3319.4	3016.4	2838.3	2597.8	1861.0	1212.0	494.6	88.6	112.3	116.5
70°	3730.4	3468.0	3088.2	2801.2	2474.6	1417.9	641.4	406.0	84.4	107.2	113.1
72.5°	3441.0	3187.8	2728.6	2373.3	1925.1	879.4	326.6	290.3	78.5	98.7	112.3
75°	2454.3	2173.3	1700.6	1383.3	1039.0	399.2	184.8	137.6	70.1	89.5	110.6
77.5°	1228.0	984.9	688.7	545.2	427.9	206.8	81.9	68.4	60.8	79.3	92.8
80°	435.5	402.6	367.1	349.4	301.3	110.6	57.4	54.9	53.2	65.8	67.5
82.5°	287.8	268.4	246.4	231.3	185.7	76.8	44.7	47.3	43.9	54.0	46.4
85°	165.4	157.0	140.1	123.2	100.4	58.2	38.0	40.5	30.4	41.4	29.5
87.5°	77.6	73.4	69.2	64.1	57.4	42.2	21.1	38.0	19.4	26.2	15.2
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)