

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: P691953

Luminaire Tested: **CRTK2-C01HO-D-U-T2-7050-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C01HO-D-U-T2-7050-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K LED WITH TYPE II OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10269 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

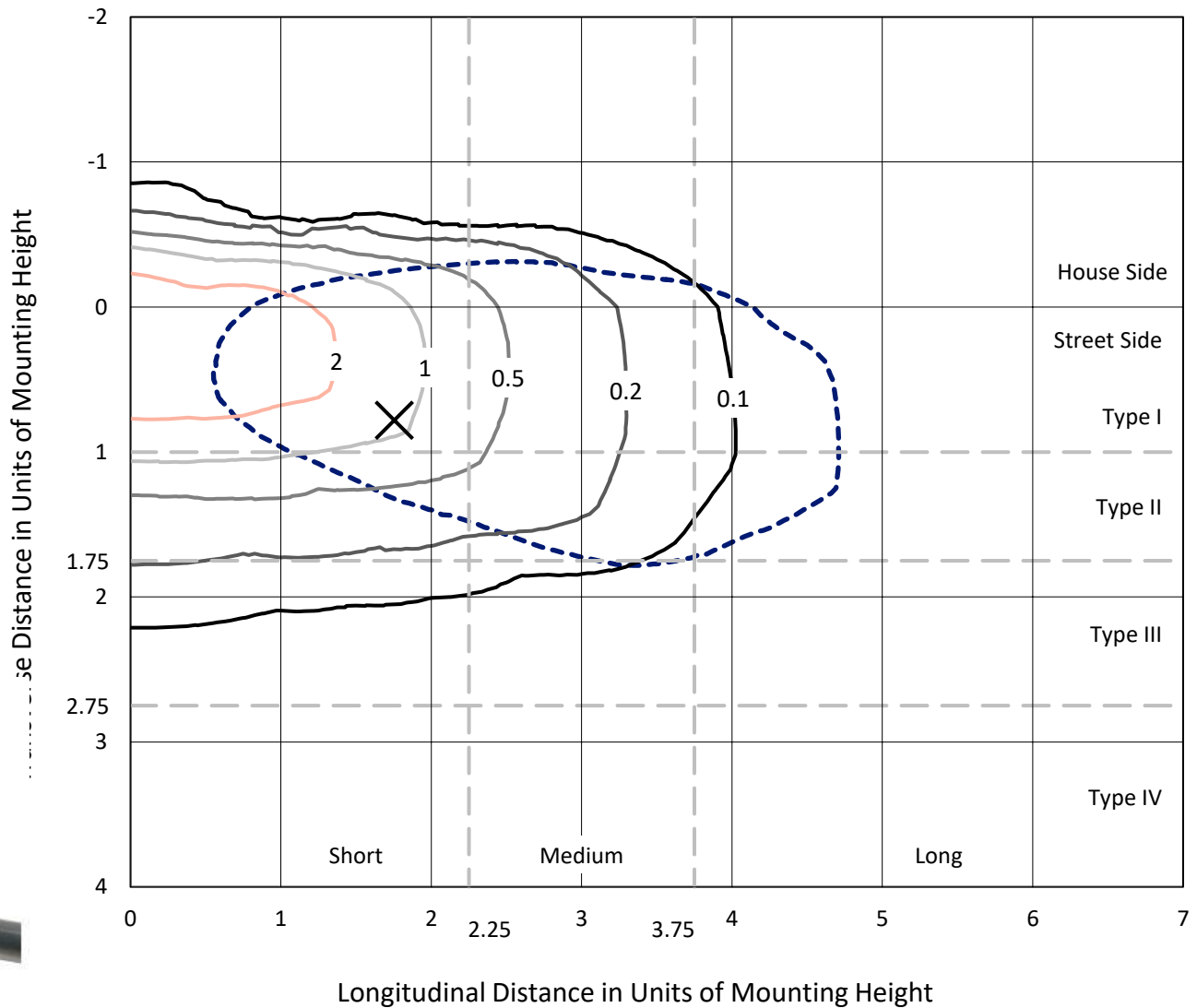
Input Watts (W): 79
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

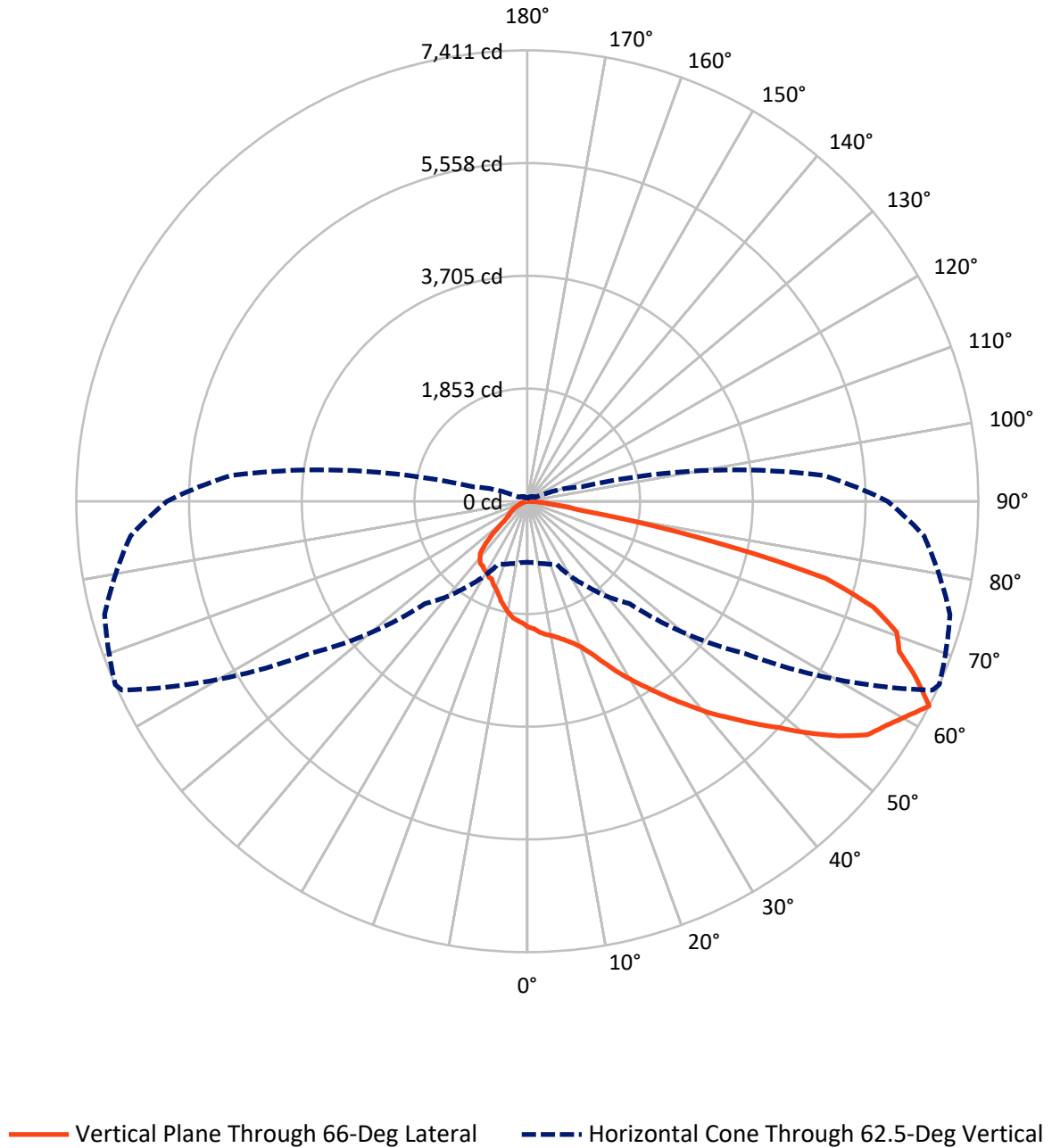
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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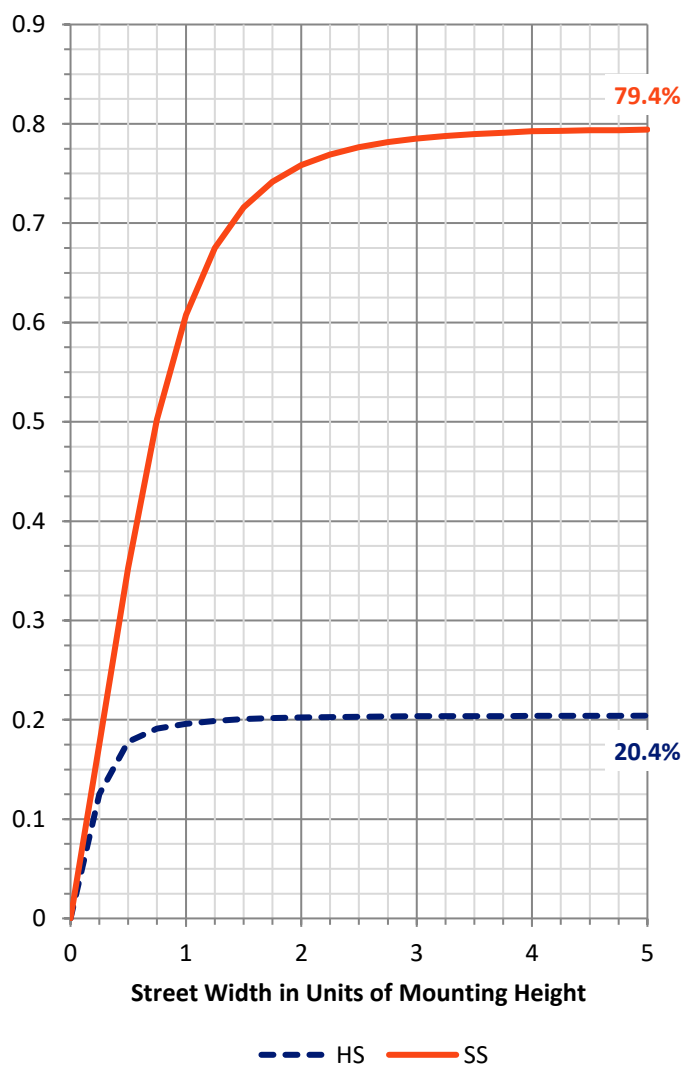
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2121.3	0.0	2121.3
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	8147.7	0.0	8147.7
	% Fixture	79.3	0.0	79.3
Total	Lumens	10269.0	0.0	10269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	1.9
10°-20°	555.8	5.4
20°-30°	911.9	8.9
30°-40°	1341.9	13.1
40°-50°	1769.7	17.2
50°-60°	2060.1	20.1
60°-70°	2047.1	19.9
70°-80°	1266.3	12.3
80°-90°	121.1	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°	10269.0	100.0
0°-180°	10269.0	100.0

Coefficient of Utilization



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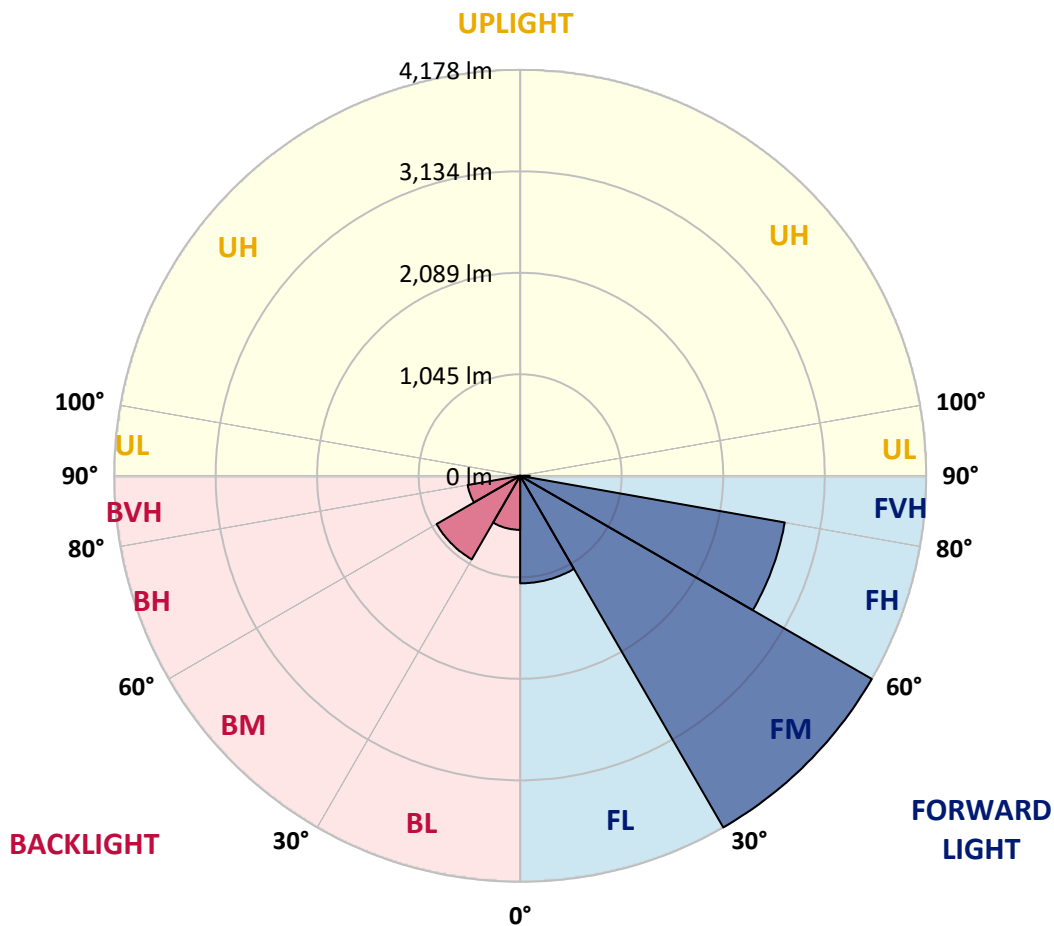
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.5	10.8			
FM (30°-60°)	4178.3	40.7			
FH (60°-80°)	2765.0	26.9			G2/5000
FVH (80°-90°)	97.8	1.0			G1/100
BL (0°-30°)	556.3	5.4	B2/1000		
BM (30°-60°)	993.3	9.7	B1/1000		
BH (60°-80°)	548.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	23.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5
2.5°	2182.6	2182.6	2178.7	2151.6	2140.0	2124.5	2112.9	2101.3	2097.4	2085.8	2066.5
5°	2310.3	2306.4	2306.4	2283.2	2260.0	2229.0	2198.1	2167.1	2163.2	2132.3	2089.7
7.5°	2383.8	2383.8	2376.1	2360.6	2345.1	2325.8	2279.3	2213.5	2209.7	2167.1	2109.0
10°	2403.2	2407.0	2422.5	2383.8	2372.2	2352.8	2329.6	2260.0	2248.4	2186.4	2093.6
12.5°	2472.8	2472.8	2468.9	2434.1	2422.5	2407.0	2368.3	2314.1	2302.5	2225.1	2097.4
15°	2557.9	2561.8	2550.2	2519.2	2503.8	2484.4	2434.1	2376.1	2372.2	2271.6	2128.4
17.5°	2600.5	2600.5	2608.3	2565.7	2569.6	2561.8	2538.6	2457.3	2453.5	2360.6	2182.6
20°	2616.0	2619.9	2623.7	2623.7	2627.6	2619.9	2643.1	2573.4	2561.8	2457.3	2256.1
22.5°	2685.7	2693.4	2712.7	2701.1	2720.5	2732.1	2739.8	2743.7	2728.2	2619.9	2379.9
25°	2716.6	2736.0	2763.0	2805.6	2836.6	2859.8	2917.8	2944.9	2941.1	2848.2	2585.0
27.5°	2670.2	2693.4	2786.3	2859.8	2968.1	3030.1	3138.4	3173.2	3184.9	3099.7	2805.6
30°	2732.1	2739.8	2782.4	2875.3	3010.7	3196.5	3343.5	3420.9	3420.9	3355.1	3022.3
32.5°	2635.3	2658.6	2782.4	2952.7	3161.6	3362.9	3502.2	3668.6	3668.6	3637.6	3331.9
35°	2623.7	2635.3	2708.9	2898.5	3165.5	3533.1	3718.9	3916.3	3943.3	3947.2	3637.6
37.5°	2515.4	2538.6	2670.2	2914.0	3281.6	3637.6	3896.9	4202.6	4233.6	4276.1	3893.0
40°	2395.4	2403.2	2519.2	2774.7	3254.5	3773.1	4067.2	4523.8	4558.6	4616.7	4233.6
42.5°	2217.4	2248.4	2441.9	2720.5	3242.9	3815.6	4256.8	4825.7	4864.4	4945.6	4516.1
45°	2058.7	2070.4	2213.5	2523.1	3115.2	3877.6	4403.8	5181.7	5204.9	5255.2	4752.1
47.5°	1931.0	1938.8	2082.0	2349.0	2995.2	3862.1	4547.0	5502.9	5557.1	5634.4	5030.8
50°	1547.9	1590.5	1946.5	2205.8	2786.3	3835.0	4659.3	5905.3	5986.6	6017.6	5352.0
52.5°	1319.6	1327.3	1513.1	2062.6	2569.6	3718.9	4767.6	6315.5	6408.4	6323.3	5738.9
55°	1222.9	1230.6	1315.7	1776.2	2387.7	3494.4	4848.9	6710.3	6776.0	6567.1	6029.2
57.5°	1160.9	1176.4	1215.1	1443.4	2171.0	3119.1	4864.4	6927.0	6954.1	6760.6	6176.2
60°	1075.8	1075.8	1153.2	1261.6	1934.9	2716.6	4736.7	7035.3	7166.9	6981.1	6447.1
62.5°	1002.3	1010.0	1060.3	1141.6	1702.7	2376.1	4361.3	7344.9	7410.7	7190.1	6543.9
65°	917.1	924.9	971.3	1052.6	1547.9	2186.4	4160.1	7221.1	7027.6	7135.9	6663.8
67.5°	820.4	824.3	870.7	944.2	1300.3	2016.2	3676.3	6749.0	6590.3	6880.5	6331.0
70°	723.7	723.7	762.4	820.4	1060.3	1768.5	3037.8	6319.4	6439.4	6454.9	6002.1
72.5°	603.7	607.6	646.3	696.6	851.4	1478.3	2403.2	5889.9	5944.0	5738.9	5278.4
75°	433.4	448.9	491.5	541.8	673.3	1172.6	1706.6	4787.0	5069.5	5433.2	4535.4
77.5°	65.8	65.8	81.3	123.8	220.6	588.2	789.4	2643.1	2933.3	4547.0	3962.7
80°	54.2	54.2	58.0	81.3	127.7	328.9	255.4	828.1	890.1	2089.7	2232.9
82.5°	27.1	27.1	42.6	58.0	77.4	96.7	108.4	398.6	460.5	712.0	890.1
85°	15.5	15.5	19.3	27.1	31.0	31.0	34.8	189.6	197.4	387.0	402.5
87.5°	3.9	3.9	7.7	7.7	7.7	3.9	3.9	3.9	3.9	3.9	3.9
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°	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5	2066.5
2.5°	2058.7	2047.1	2023.9	2004.6	1993.0	1969.7	1950.4	1934.9	1927.2	1946.5	1950.4
5°	2062.6	2035.5	1993.0	1965.9	1934.9	1896.2	1849.8	1822.7	1811.1	1814.9	1826.6
7.5°	2070.4	2031.7	1981.3	1923.3	1842.0	1764.6	1710.5	1679.5	1664.0	1683.4	1683.4
10°	2047.1	2004.6	1934.9	1845.9	1741.4	1664.0	1602.1	1547.9	1528.6	1536.3	1540.2
12.5°	2047.1	1989.1	1873.0	1764.6	1667.9	1540.2	1447.3	1397.0	1377.7	1381.5	1389.3
15°	2058.7	1981.3	1818.8	1687.2	1544.1	1408.6	1327.3	1265.4	1246.1	1226.7	1234.5
17.5°	2097.4	1969.7	1791.7	1582.8	1424.1	1296.4	1184.2	1114.5	1099.0	1099.0	1102.9
20°	2136.1	1985.2	1745.3	1505.4	1315.7	1157.1	1041.0	990.7	955.8	940.4	955.8
22.5°	2217.4	2039.4	1714.3	1455.1	1203.5	1052.6	944.2	832.0	770.1	743.0	750.7
25°	2364.5	2136.1	1737.5	1366.0	1141.6	955.8	804.9	669.5	584.3	557.3	565.0
27.5°	2592.8	2294.8	1764.6	1358.3	1029.4	859.1	654.0	506.9	441.2	414.1	421.8
30°	2817.2	2511.5	1853.6	1280.9	986.8	704.3	495.3	390.9	325.1	298.0	305.7
32.5°	3010.7	2720.5	1965.9	1261.6	874.6	530.2	371.5	290.2	239.9	216.7	220.6
35°	3297.1	2898.5	2062.6	1203.5	743.0	398.6	270.9	209.0	181.9	174.1	174.1
37.5°	3552.5	3107.5	2155.5	1184.2	557.3	298.0	193.5	170.3	166.4	154.8	154.8
40°	3819.5	3328.0	2198.1	1114.5	406.3	209.0	158.7	158.7	154.8	143.2	143.2
42.5°	4133.0	3552.5	2236.8	1033.2	290.2	158.7	147.1	150.9	147.1	135.4	131.6
45°	4357.4	3691.8	2248.4	828.1	201.2	150.9	139.3	143.2	139.3	131.6	127.7
47.5°	4562.5	3893.0	2198.1	580.5	162.5	143.2	135.4	135.4	135.4	123.8	120.0
50°	4775.4	4059.4	2155.5	313.5	158.7	139.3	127.7	123.8	127.7	120.0	116.1
52.5°	5057.8	4187.1	2043.3	212.8	154.8	135.4	123.8	116.1	120.0	112.2	116.1
55°	5433.2	4523.8	1838.2	201.2	154.8	131.6	120.0	108.4	108.4	104.5	104.5
57.5°	5603.5	4651.5	1509.2	193.5	150.9	131.6	112.2	100.6	92.9	89.0	85.1
60°	5812.5	4837.3	1164.8	178.0	139.3	123.8	100.6	89.0	77.4	73.5	73.5
62.5°	5920.8	4879.8	921.0	158.7	127.7	108.4	89.0	73.5	61.9	54.2	54.2
65°	5982.7	4856.6	642.4	143.2	112.2	96.7	77.4	61.9	46.4	42.6	38.7
67.5°	5773.8	4717.3	375.4	123.8	96.7	85.1	65.8	50.3	38.7	34.8	31.0
70°	5355.8	4291.6	236.1	108.4	85.1	73.5	58.0	42.6	31.0	27.1	27.1
72.5°	4906.9	3459.6	162.5	85.1	65.8	58.0	42.6	34.8	27.1	19.3	19.3
75°	4415.5	3003.0	120.0	61.9	46.4	42.6	34.8	27.1	23.2	15.5	15.5
77.5°	3130.7	1989.1	96.7	46.4	31.0	27.1	23.2	19.3	15.5	15.5	11.6
80°	1849.8	971.3	73.5	31.0	23.2	19.3	15.5	15.5	11.6	11.6	11.6
82.5°	692.7	371.5	50.3	23.2	15.5	15.5	11.6	11.6	7.7	7.7	7.7
85°	251.5	92.9	23.2	11.6	11.6	7.7	7.7	7.7	7.7	7.7	7.7
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
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)