

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: P477129

Luminaire Tested: **IFLD-L-SA7B-827-U-T2R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477129
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

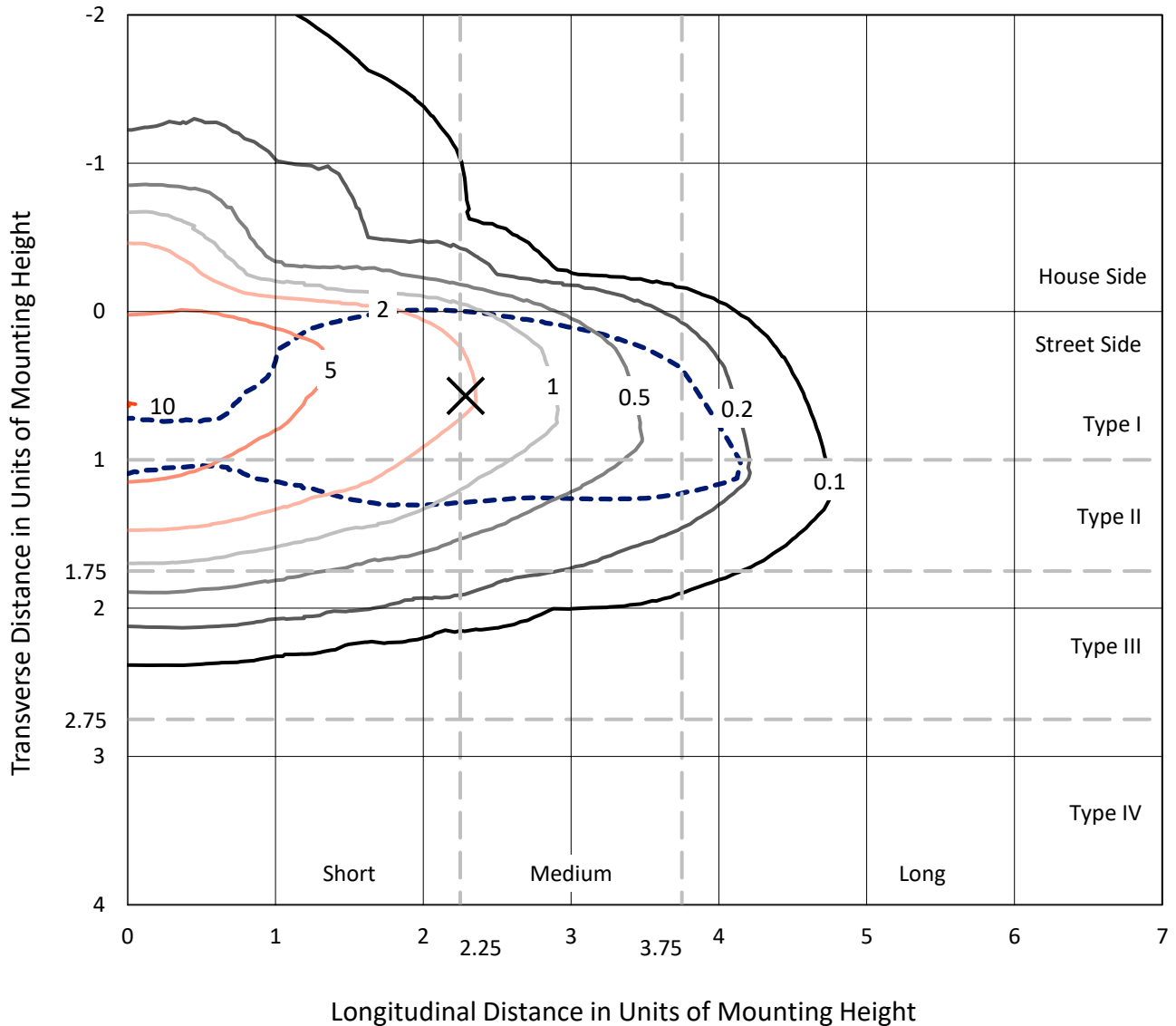
Lumens per Lamp: N/A
Luminaire Lumens: 26325.5 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 281
Input Voltage (V): 120
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

REPORT NUMBER: P477129
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

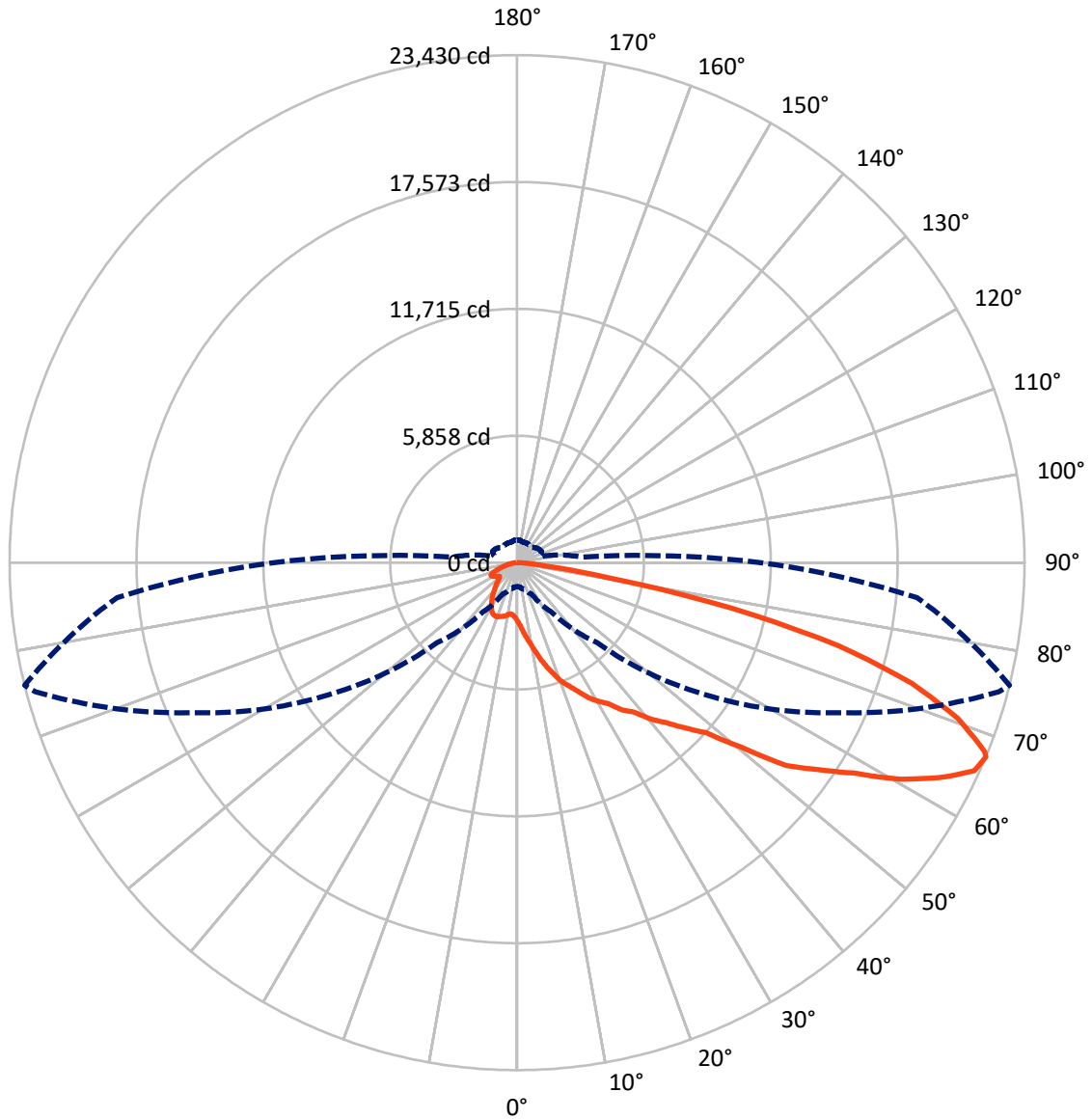
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P477129
CATALOG NUMBER: IFLD-L-SA7B-827-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P477129
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3745.1	0.0	3745.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	22580.4	0.0	22580.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	26325.5	0.0	26325.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	1.2
10°-20°	1170.4	4.4
20°-30°	2175.9	8.3
30°-40°	3449.3	13.1
40°-50°	4770.8	18.1
50°-60°	5868.3	22.3
60°-70°	5460.7	20.7
70°-80°	2740.2	10.4
80°-90°	377.8	1.4
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°	26325.5	100.0
0°-180°	26325.5	100.0

Coefficient of Utilization



REPORT NUMBER: P477129

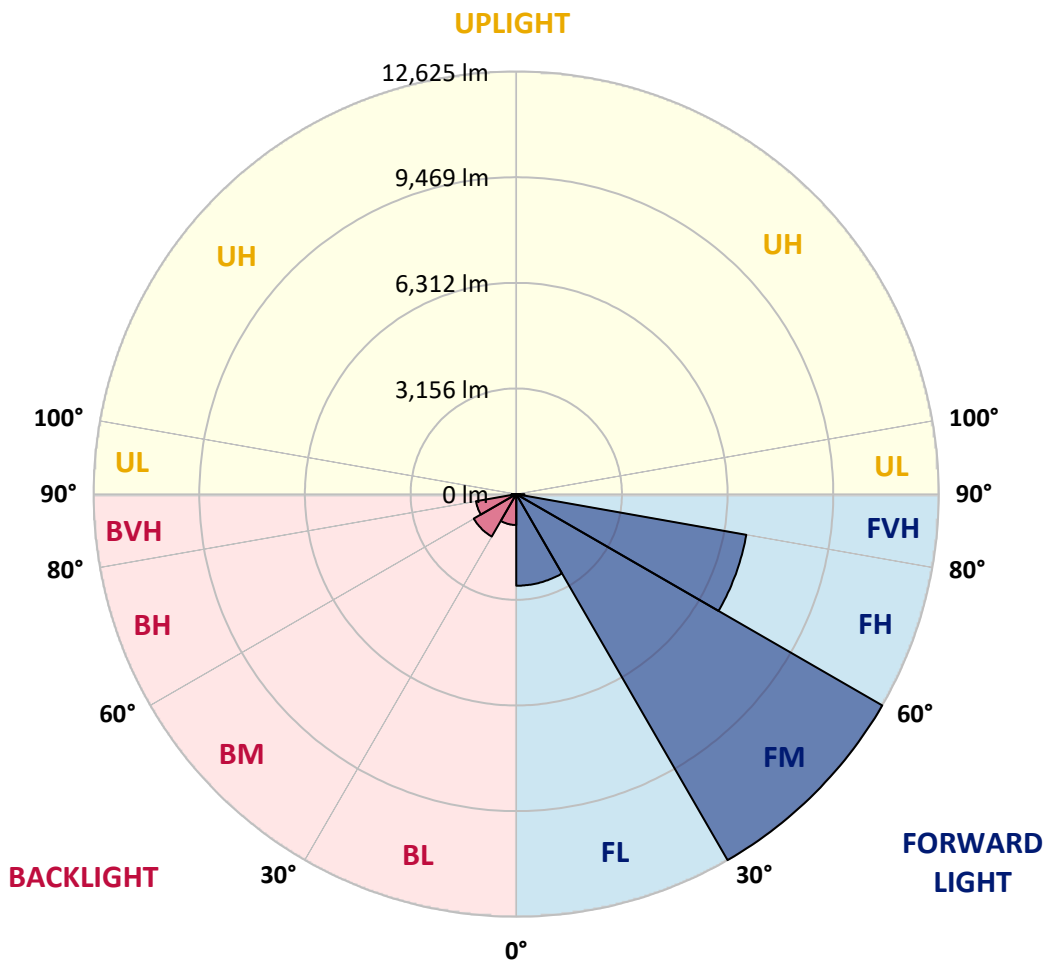
CATALOG NUMBER: IFLD-L-SA7B-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2736.1	10.4			
FM (30°-60°)	12624.9	48.0			
FH (60°-80°)	6978.7	26.5			G3/7500
FVH (80°-90°)	240.7	0.9			G3/500
BL (0°-30°)	922.3	3.5	B2/1000		
BM (30°-60°)	1463.5	5.6	B2/2500		
BH (60°-80°)	1222.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	137.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





REPORT NUMBER: P477129
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0
2.5°	3738.0	3693.0	3648.0	3552.0	3519.0	3429.0	3264.0	3081.0	2931.0	2910.0	2805.0
5°	4638.0	4572.0	4557.0	4503.0	4332.0	4158.0	3888.0	3594.0	3228.0	3255.0	2895.0
7.5°	5313.0	5274.0	5193.0	5142.0	5040.0	4809.0	4530.0	4140.0	3675.0	3585.0	3096.0
10°	5823.0	5769.0	5766.0	5721.0	5667.0	5430.0	5217.0	4692.0	4095.0	3972.0	3342.0
12.5°	6081.0	6072.0	6231.0	6231.0	6210.0	6111.0	5745.0	5265.0	4494.0	4452.0	3627.0
15°	6360.0	6285.0	6423.0	6528.0	6582.0	6633.0	6330.0	5823.0	5004.0	4923.0	3933.0
17.5°	6360.0	6354.0	6492.0	6666.0	6948.1	7014.1	6849.0	6336.0	5427.0	5367.0	4269.0
20°	6252.0	6339.0	6435.0	6669.0	6975.1	7242.1	7290.1	6861.0	5895.0	5847.0	4650.0
22.5°	6756.0	6672.0	6771.0	6861.0	7098.1	7503.1	7635.1	7323.1	6387.0	6204.0	4995.0
25°	7602.1	7545.1	7473.1	7341.1	7440.1	7617.1	7818.1	7665.1	6807.0	6603.0	5328.0
27.5°	8427.1	8430.1	8274.1	7986.1	7773.1	7809.1	8046.1	7965.1	7161.1	7071.1	5556.0
30°	9600.1	9528.1	9354.1	8964.1	8547.1	8205.1	8166.1	8244.1	7611.1	7437.1	5883.0
32.5°	10479.1	10494.1	10248.1	9687.1	9117.1	8838.1	8496.1	8529.1	7896.1	7767.1	6144.0
35°	11190.1	11172.1	10998.1	10533.1	9858.1	9522.1	9060.1	8871.1	8559.1	8355.1	6543.0
37.5°	11958.1	11811.1	11529.1	11004.1	10572.1	10107.1	9657.1	9231.1	9000.1	8754.1	6885.0
40°	12267.1	12267.1	11889.1	11649.1	11136.1	10785.1	10494.1	9705.1	9537.1	9489.1	7323.1
42.5°	12048.1	12183.1	12027.1	11754.1	11544.1	11100.1	11022.1	10197.1	10200.1	10104.1	7848.1
45°	12027.1	11841.1	11712.1	11781.1	11682.1	11658.1	11856.1	10878.1	10896.1	10884.1	8553.1
47.5°	11424.1	11340.1	11532.1	11646.1	11727.1	12099.1	12669.1	11691.1	11820.1	11730.1	9366.1
50°	10824.1	10809.1	10929.1	11343.1	11694.1	12306.1	13443.1	12945.1	13368.1	13362.1	10839.1
52.5°	9180.1	9339.1	9810.1	10686.1	11553.1	12588.1	14028.1	14547.1	15354.1	15573.1	12060.1
55°	7608.1	7524.1	8220.1	9492.1	10938.1	12699.1	14682.1	15510.1	16698.1	16857.1	13314.1
57.5°	5919.0	6075.0	6624.0	7845.1	9666.1	12150.1	15162.1	16461.1	18216.1	18339.1	14769.1
60°	4416.0	4437.0	5040.0	6024.0	7974.1	10911.1	15318.1	17436.1	19956.1	20307.1	16293.1
62.5°	2778.0	2904.0	3363.0	4332.0	6003.0	9177.1	14619.1	18027.1	21780.2	21873.2	17829.1
65°	1497.0	1578.0	1923.0	2532.0	4194.0	6942.1	12765.1	17673.1	22638.2	23190.2	18513.1
67°	1107.0	1122.0	1281.0	1617.0	2805.0	5226.0	10644.1	16392.1	23028.2	23430.2	18540.1
67.5°	1038.0	1059.0	1185.0	1452.0	2487.0	4812.0	10089.1	15936.1	22854.2	23286.2	18330.1
70°	888.0	894.0	924.0	999.0	1395.0	2895.0	6870.0	13059.1	21183.2	21597.2	16857.1
72.5°	789.0	795.0	807.0	822.0	945.0	1674.0	4179.0	10050.1	18411.1	19071.1	14544.1
75°	693.0	714.0	720.0	708.0	804.0	1089.0	2223.0	7386.1	15018.1	15339.1	11310.1
77.5°	588.0	597.0	609.0	621.0	717.0	813.0	1068.0	4986.0	10308.1	10113.1	6117.0
80°	495.0	498.0	507.0	516.0	621.0	621.0	606.0	2694.0	4503.0	4305.0	2067.0
82.5°	354.0	375.0	396.0	420.0	516.0	417.0	396.0	1200.0	1425.0	1356.0	699.0
85°	138.0	168.0	261.0	288.0	327.0	225.0	264.0	519.0	594.0	588.0	261.0
87.5°	24.0	27.0	72.0	111.0	120.0	78.0	126.0	186.0	222.0	240.0	96.0
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: P477129
 CATALOG NUMBER: IFLD-L-SA7B-827-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0	2694.0
2.5°	2718.0	2625.0	2514.0	2403.0	2331.0	2217.0	2208.0	2139.0	2130.0	2106.0	2118.0
5°	2739.0	2628.0	2403.0	2226.0	2145.0	2079.0	2094.0	2064.0	2055.0	2040.0	2016.0
7.5°	2904.0	2685.0	2349.0	2196.0	2136.0	2106.0	2106.0	2070.0	2043.0	2061.0	2079.0
10°	3012.0	2712.0	2391.0	2238.0	2190.0	2124.0	2148.0	2103.0	2118.0	2082.0	2082.0
12.5°	3186.0	2865.0	2478.0	2301.0	2223.0	2163.0	2187.0	2136.0	2124.0	2127.0	2118.0
15°	3420.0	2967.0	2517.0	2337.0	2283.0	2208.0	2190.0	2145.0	2100.0	2085.0	2103.0
17.5°	3639.0	3093.0	2544.0	2358.0	2271.0	2187.0	2166.0	2109.0	2094.0	2049.0	2013.0
20°	3900.0	3243.0	2580.0	2376.0	2226.0	2142.0	2088.0	2031.0	1980.0	1953.0	1965.0
22.5°	4074.0	3321.0	2598.0	2340.0	2160.0	2082.0	1968.0	1929.0	1857.0	1827.0	1803.0
25°	4359.0	3417.0	2553.0	2241.0	2043.0	1917.0	1815.0	1761.0	1710.0	1671.0	1659.0
27.5°	4431.0	3489.0	2448.0	2073.0	1857.0	1725.0	1638.0	1572.0	1539.0	1479.0	1467.0
30°	4641.0	3417.0	2292.0	1869.0	1680.0	1545.0	1458.0	1410.0	1332.0	1317.0	1284.0
32.5°	4776.0	3438.0	2094.0	1671.0	1476.0	1356.0	1299.0	1251.0	1230.0	1158.0	1140.0
35°	5001.0	3366.0	1893.0	1488.0	1308.0	1215.0	1167.0	1152.0	1083.0	1050.0	1020.0
37.5°	5145.0	3324.0	1692.0	1281.0	1125.0	1086.0	1101.0	1038.0	954.0	891.0	870.0
40°	5397.0	3309.0	1464.0	1110.0	999.0	990.0	1038.0	918.0	765.0	711.0	681.0
42.5°	5760.0	3207.0	1287.0	957.0	900.0	939.0	948.0	765.0	678.0	633.0	612.0
45°	6108.0	3228.0	1113.0	792.0	783.0	840.0	819.0	648.0	597.0	564.0	582.0
47.5°	6777.0	3333.0	942.0	660.0	705.0	759.0	636.0	579.0	531.0	507.0	510.0
50°	7812.1	3435.0	792.0	603.0	666.0	687.0	546.0	525.0	522.0	474.0	471.0
52.5°	8433.1	3396.0	765.0	675.0	714.0	687.0	594.0	579.0	555.0	534.0	510.0
55°	9420.1	3510.0	822.0	789.0	810.0	660.0	666.0	660.0	642.0	588.0	603.0
57.5°	10206.1	3585.0	897.0	882.0	870.0	687.0	696.0	699.0	687.0	663.0	684.0
60°	11286.1	3735.0	975.0	978.0	981.0	747.0	762.0	780.0	777.0	768.0	774.0
62.5°	11949.1	3666.0	1062.0	1110.0	1095.0	870.0	867.0	879.0	879.0	894.0	903.0
65°	11850.1	3411.0	1107.0	1227.0	1149.0	960.0	960.0	966.0	969.0	999.0	1002.0
67°	11256.1	2955.0	1083.0	1245.0	1149.0	996.0	996.0	1002.0	981.0	1059.0	1035.0
67.5°	10980.1	2820.0	1062.0	1230.0	1140.0	993.0	993.0	996.0	978.0	1053.0	1029.0
70°	9549.1	2094.0	915.0	1089.0	1056.0	966.0	966.0	948.0	933.0	1032.0	1011.0
72.5°	8151.1	1521.0	735.0	927.0	954.0	930.0	936.0	891.0	849.0	918.0	900.0
75°	6243.0	1119.0	573.0	714.0	807.0	870.0	909.0	795.0	741.0	759.0	726.0
77.5°	3483.0	729.0	453.0	528.0	615.0	810.0	873.0	717.0	606.0	585.0	585.0
80°	1182.0	426.0	333.0	393.0	423.0	717.0	816.0	582.0	477.0	456.0	441.0
82.5°	447.0	261.0	228.0	270.0	270.0	567.0	666.0	447.0	360.0	465.0	474.0
85°	204.0	156.0	150.0	156.0	156.0	348.0	471.0	291.0	324.0	279.0	246.0
87.5°	81.0	75.0	69.0	66.0	54.0	60.0	162.0	78.0	147.0	39.0	36.0
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)