

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: P478297

Luminaire Tested: **IFLD-M-SA4E-827-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478297  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-827-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

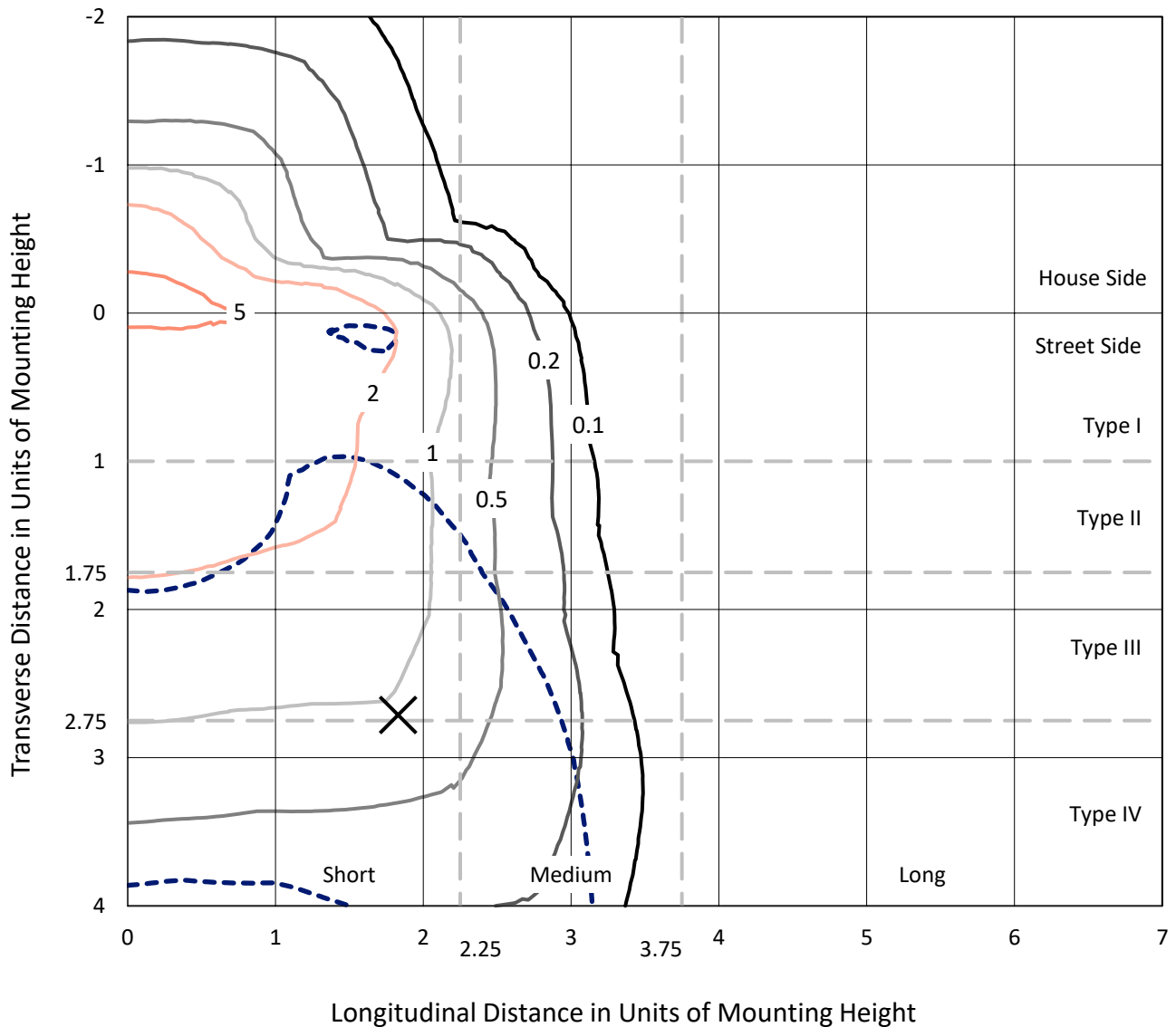
Lumens per Lamp: N/A  
Luminaire Lumens: 27265.8 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8  
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: P478297  
 CATALOG NUMBER: IFLD-M-SA4E-827-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

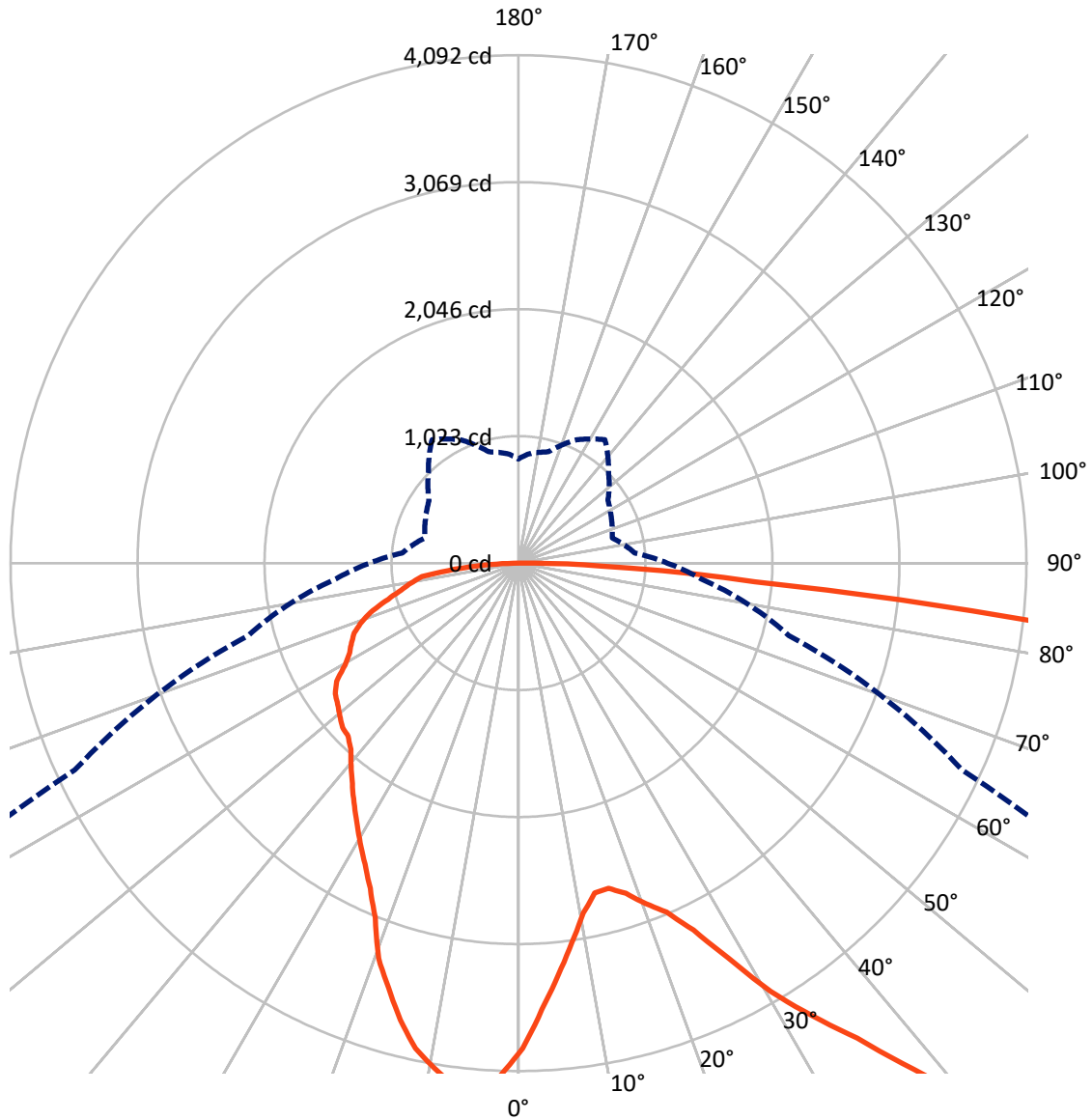
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478297  
CATALOG NUMBER: IFLD-M-SA4E-827-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478297

CATALOG NUMBER: IFLD-M-SA4E-827-U-T4FT

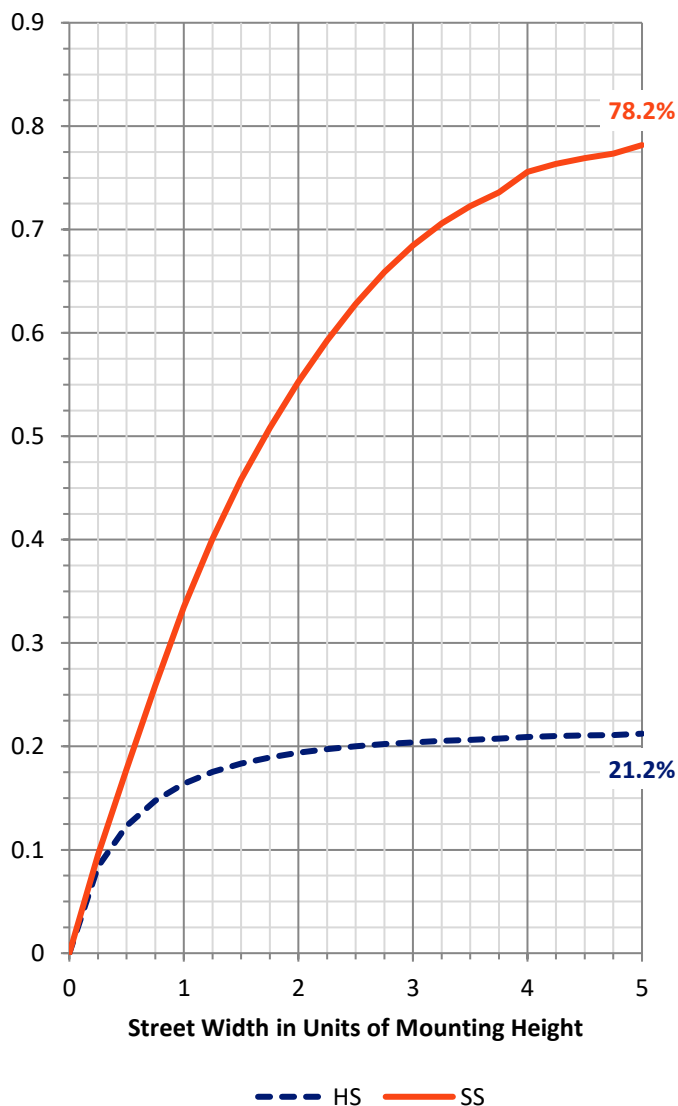
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5889.8	0.0	5889.8
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	21376.1	0.0	21376.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	27265.8	0.0	27265.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.8	1.3
10°-20°	1009.7	3.7
20°-30°	1661.8	6.1
30°-40°	2485.2	9.1
40°-50°	3684.2	13.5
50°-60°	5309.3	19.5
60°-70°	6775.3	24.8
70°-80°	5272.3	19.3
80°-90°	707.3	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°	27265.8	100.0
0°-180°	27265.8	100.0

**Coefficient of Utilization**



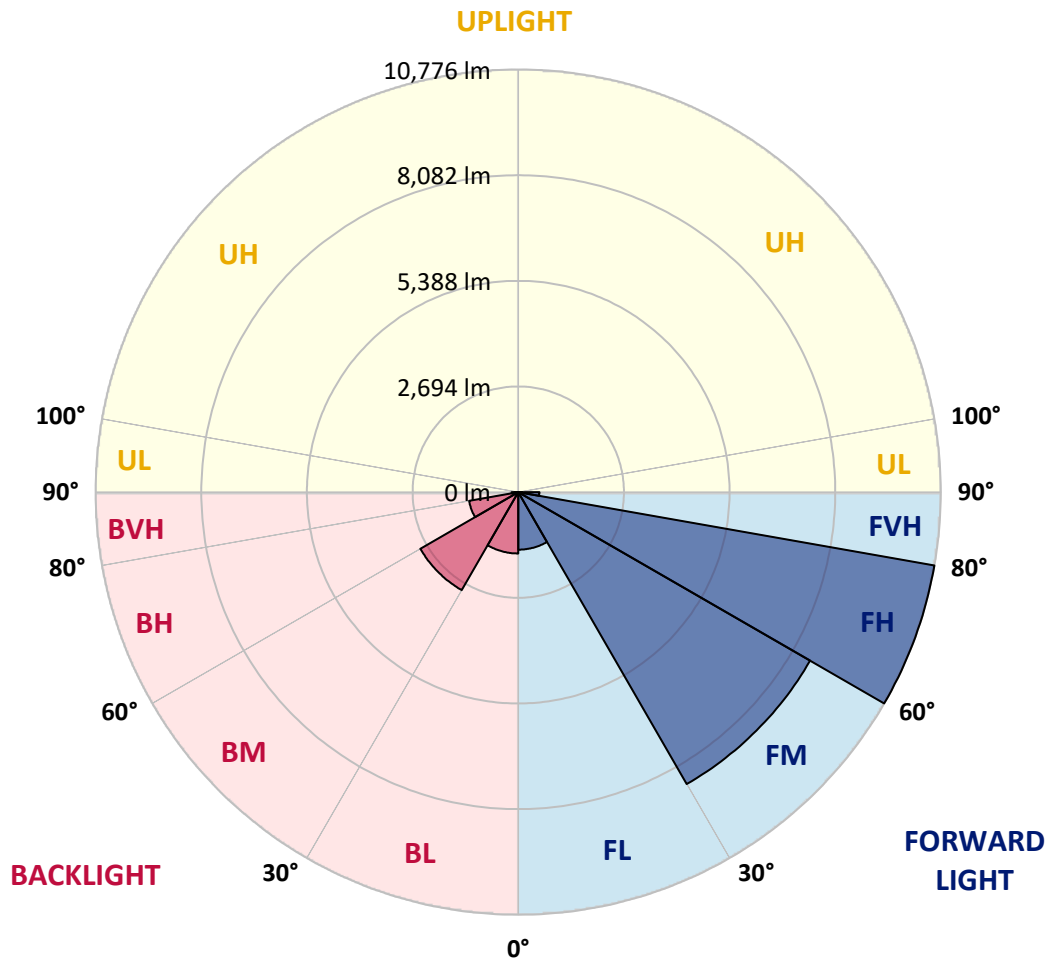
REPORT NUMBER: P478297  
 CATALOG NUMBER: IFLD-M-SA4E-827-U-T4FT

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1467.4	5.4			
FM (30°-60°)	8594.4	31.5			
FH (60°-80°)	10775.9	39.5			G4/12000
FVH (80°-90°)	538.4	2.0			G4/750
BL (0°-30°)	1564.9	5.7	B3/2500		
BM (30°-60°)	2884.2	10.6	B3/5000		
BH (60°-80°)	1271.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	168.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





REPORT NUMBER: P478297  
 CATALOG NUMBER: IFLD-M-SA4E-827-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0
2.5°	3502.5	3514.0	3551.5	3560.2	3600.5	3577.5	3626.5	3713.0	3762.0	3834.0	3920.5
5°	3225.8	3176.8	3199.8	3289.2	3335.3	3346.8	3398.7	3545.8	3638.0	3744.7	3906.1
7.5°	2900.0	2891.4	2937.5	2995.2	3087.4	3096.1	3211.4	3341.1	3531.3	3767.7	3958.0
10°	2678.1	2715.5	2741.5	2802.0	2865.4	2865.4	3012.5	3237.3	3453.5	3681.2	3969.5
12.5°	2666.5	2643.5	2649.2	2680.9	2727.1	2784.7	2923.1	3124.9	3398.7	3663.9	4018.5
15°	2704.0	2712.6	2660.8	2701.1	2718.4	2738.6	2891.4	3119.1	3364.1	3724.5	4102.1
17.5°	2902.9	2853.9	2773.2	2735.7	2796.2	2796.2	2900.0	3078.8	3369.9	3756.2	4223.2
20°	3058.6	3058.6	2926.0	2885.6	2928.9	2920.2	2992.3	3124.9	3398.7	3819.6	4358.7
22.5°	3320.9	3358.4	3139.3	3055.7	3052.8	3075.9	3139.3	3251.7	3479.5	3909.0	4488.4
25°	3698.5	3707.2	3453.5	3367.0	3274.8	3312.3	3323.8	3436.2	3551.5	4012.8	4635.4
27.5°	4119.4	4113.7	3880.2	3663.9	3603.4	3612.1	3548.6	3623.6	3658.2	4044.5	4845.9
30°	4586.4	4534.5	4358.7	4053.1	4004.1	3949.3	3811.0	3808.1	3880.2	4223.2	5137.0
32.5°	4892.0	4825.7	4704.6	4485.5	4350.0	4355.8	4136.7	4133.8	4070.4	4419.2	5390.7
35°	5191.8	5090.9	5059.2	4834.3	4698.8	4713.3	4537.4	4514.4	4399.0	4716.1	5808.7
37.5°	5552.1	5462.8	5511.8	5341.7	5174.5	5105.3	5024.6	4995.8	4845.9	5134.1	6379.5
40°	5950.0	5921.1	5889.4	5805.8	5704.9	5710.7	5624.2	5595.4	5373.4	5638.6	6927.2
42.5°	6486.1	6376.6	6212.3	6267.1	6318.9	6373.7	6344.9	6269.9	6039.3	6151.7	7538.3
45°	6984.9	6840.7	6538.0	6555.3	6768.6	6811.9	7160.7	7152.1	6687.9	6803.2	8233.1
47.5°	7322.1	7255.8	7074.2	7054.0	7359.6	7356.7	7985.2	7985.2	7371.1	7451.9	8979.7
50°	7823.7	7650.8	7572.9	7673.8	7829.5	7936.2	8826.9	8881.7	8042.8	8129.3	9956.9
52.5°	8411.8	8195.6	7999.6	8259.0	8535.8	8604.9	9660.0	9637.0	8558.8	8916.3	11101.4
55°	8899.0	8789.4	8654.0	8803.9	9256.4	9342.9	10496.0	10282.7	9074.8	9567.8	11652.0
57.5°	9466.9	9533.2	9562.0	9524.5	10063.6	10199.1	11450.2	10839.1	9518.8	10006.0	11974.9
60°	10323.1	10363.4	10400.9	10490.3	11061.0	11251.3	12205.5	11536.7	9798.4	10259.6	12000.8
62.5°	11626.0	11470.4	11554.0	11862.4	12320.8	12537.0	13318.2	12026.7	10011.7	10412.4	11153.3
65°	13116.4	12906.0	12819.5	13217.3	14405.0	14232.0	14707.7	12392.9	9703.3	9841.6	9458.2
67.5°	14627.0	14650.0	14428.1	15226.6	16682.4	16682.4	15999.2	12568.7	8867.3	7976.5	6633.2
70°	15826.2	15898.3	16019.3	17567.4	19873.5	20222.3	17599.1	11848.0	7163.6	5310.0	3626.5
72.5°	15808.9	15592.7	16212.5	19063.5	22773.6	22482.4	17933.5	9368.9	4471.1	2600.2	1663.3
73°	15454.3	15272.7	15950.1	19049.1	22891.8	22617.9	17688.4	8636.7	3943.6	2254.3	1478.8
75°	12620.6	12292.0	13445.1	17253.1	21179.4	21389.9	15027.7	5632.9	2162.0	1389.5	1040.7
77.5°	5753.9	5898.1	7400.0	11574.2	16322.0	16569.9	9879.1	2435.9	1184.8	974.4	766.8
80°	1847.8	1940.1	2879.8	5753.9	10230.8	10677.6	4566.2	1107.0	844.6	746.6	573.7
82.5°	706.3	703.4	1207.9	2392.7	4848.8	5134.1	1669.1	674.6	628.4	550.6	406.5
85°	247.9	259.4	455.5	945.5	1908.4	1997.7	579.4	374.8	435.3	369.0	233.5
87.5°	86.5	89.4	161.4	343.0	657.3	694.7	161.4	149.9	216.2	213.3	118.2
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: P478297  
 CATALOG NUMBER: IFLD-M-SA4E-827-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0	3909.0
2.5°	3949.3	3975.3	3983.9	4087.7	4087.7	4087.7	4128.1	4128.1	4116.5	4087.7	4156.9
5°	3966.6	4012.8	4102.1	4191.5	4214.6	4234.7	4289.5	4243.4	4260.7	4231.8	4257.8
7.5°	4015.6	4079.1	4246.3	4301.0	4263.6	4306.8	4249.1	4217.4	4185.7	4197.3	4156.9
10°	4099.2	4180.0	4257.8	4358.7	4286.6	4243.4	4125.2	4096.4	3995.5	3960.9	3992.6
12.5°	4203.0	4301.0	4433.6	4396.2	4257.8	4133.8	4007.0	3885.9	3825.4	3738.9	3762.0
15°	4306.8	4419.2	4439.4	4376.0	4203.0	4047.4	3816.7	3646.7	3586.1	3508.3	3548.6
17.5°	4419.2	4525.9	4491.3	4327.0	4093.5	3857.1	3594.8	3427.6	3300.7	3251.7	3251.7
20°	4586.4	4638.3	4583.5	4246.3	3960.9	3649.5	3395.9	3205.6	3078.8	3058.6	3026.9
22.5°	4716.1	4799.7	4554.7	4128.1	3767.7	3378.6	3087.4	3015.3	2977.9	2946.1	2905.8
25°	4883.3	4880.5	4502.8	4018.5	3436.2	3055.7	2879.8	2874.1	2856.8	2845.3	2900.0
27.5°	5041.9	4975.6	4442.3	3747.5	3093.2	2810.7	2715.5	2779.0	2804.9	2787.6	2810.7
30°	5292.7	5183.1	4355.8	3459.3	2790.5	2562.7	2580.0	2666.5	2709.8	2735.7	2701.1
32.5°	5557.9	5390.7	4177.1	3159.5	2522.4	2407.1	2447.4	2536.8	2588.7	2617.5	2649.2
35°	5941.3	5552.1	3995.5	2767.4	2329.2	2311.9	2335.0	2384.0	2459.0	2479.1	2487.8
37.5°	6414.1	5797.2	3750.4	2453.2	2179.3	2199.5	2222.6	2239.9	2242.8	2280.2	2265.8
40°	6886.8	6004.7	3393.0	2153.4	2023.7	2133.2	2121.7	2090.0	2064.0	2029.4	2020.8
42.5°	7302.0	6186.3	2995.2	1899.7	1885.3	2064.0	2026.6	1945.8	1885.3	1859.4	1816.1
45°	7769.0	6442.9	2594.5	1741.2	1778.6	1980.4	1968.9	1844.9	1767.1	1674.9	1663.3
47.5°	8374.3	6711.0	2211.1	1576.9	1677.7	1948.7	1954.5	1795.9	1683.5	1559.6	1542.3
50°	9149.8	7097.3	1919.9	1507.7	1617.2	1902.6	1911.2	1729.6	1582.6	1455.8	1444.2
52.5°	9893.5	7492.2	1677.7	1401.0	1576.9	1847.8	1868.0	1669.1	1499.0	1340.5	1349.1
55°	10268.3	7348.1	1470.2	1323.2	1484.6	1758.5	1833.4	1625.9	1372.2	1262.6	1259.8
57.5°	10351.9	6993.5	1305.9	1242.5	1406.8	1663.3	1775.8	1496.1	1314.5	1222.3	1210.7
60°	10078.0	6373.7	1176.2	1156.0	1308.8	1565.3	1643.2	1427.0	1256.9	1181.9	1164.6
62.5°	9403.5	5730.9	1086.8	1115.6	1225.2	1458.7	1559.6	1377.9	1202.1	1150.2	1112.7
65°	7711.3	4713.3	1014.7	1037.8	1138.7	1354.9	1507.7	1323.2	1153.1	1104.1	1101.2
67.5°	5341.7	3248.8	957.1	1000.3	1069.5	1279.9	1455.8	1262.6	1089.7	1072.4	1049.3
70°	2735.7	1732.5	882.1	916.7	994.5	1184.8	1363.5	1199.2	1023.4	1020.5	991.7
72.5°	1386.6	1014.7	795.6	847.5	902.3	1060.8	1248.2	1115.6	939.8	908.1	861.9
73°	1199.2	939.8	781.2	827.3	879.2	1026.3	1213.6	1095.4	928.2	882.1	838.9
75°	873.5	740.9	700.5	746.6	787.0	925.4	1098.3	1003.2	853.3	804.3	763.9
77.5°	654.4	570.8	582.3	634.2	668.8	798.5	977.2	908.1	772.6	706.3	689.0
80°	481.4	435.3	481.4	530.4	556.4	703.4	890.8	787.0	651.5	576.5	562.1
82.5°	343.0	317.1	371.9	403.6	415.1	582.3	801.4	628.4	492.9	394.9	363.2
85°	196.0	193.1	250.8	247.9	256.6	340.2	527.5	418.0	317.1	242.1	236.4
87.5°	86.5	95.1	126.8	100.9	106.7	161.4	224.9	155.7	129.7	72.1	54.8
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)