

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: P477121

Luminaire Tested: **IFLD-S-SA6D-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477121
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

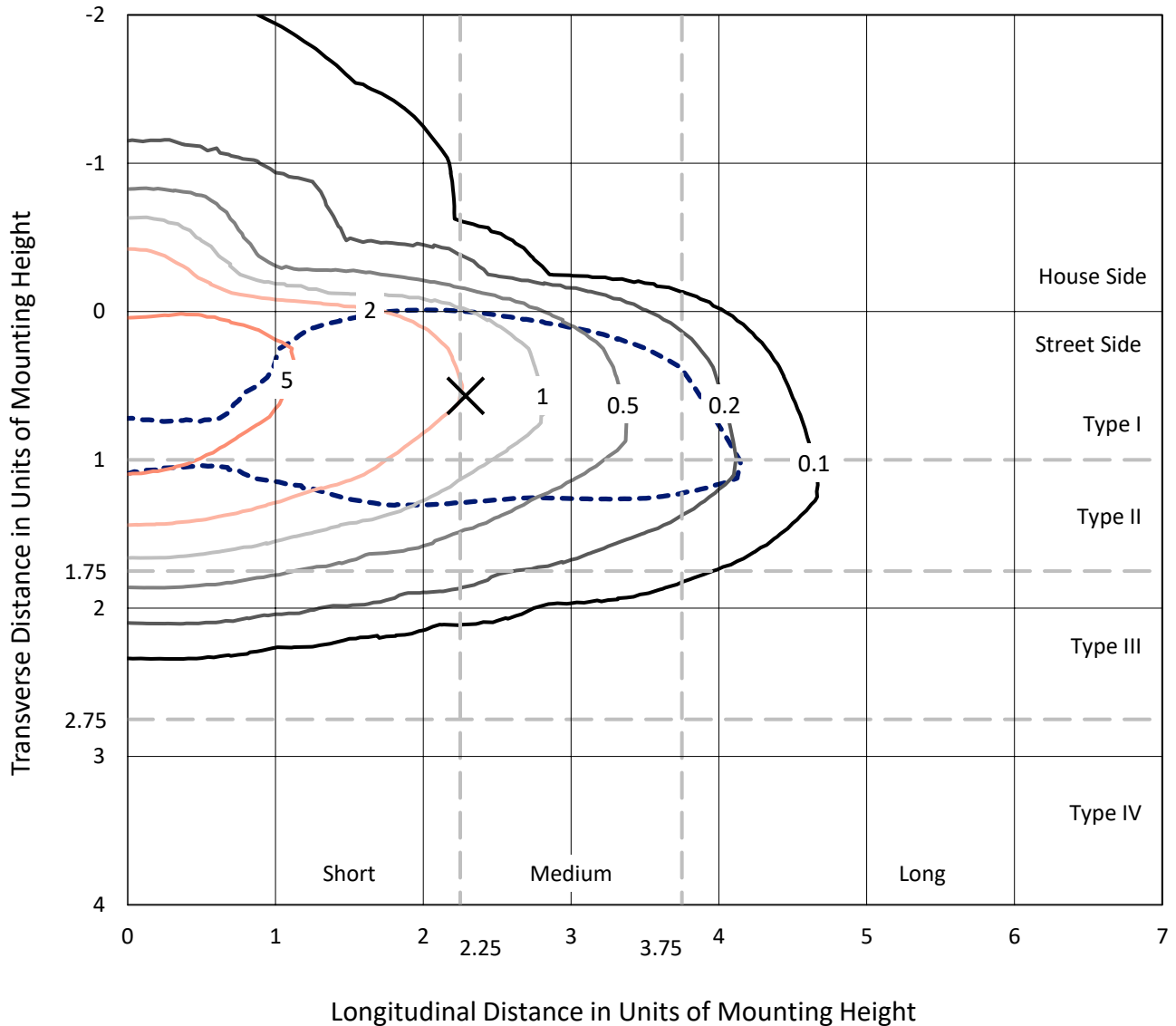
Lumens per Lamp: N/A
Luminaire Lumens: 33799 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 368.2
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

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Iso-Footcandle Lines of Horizontal Illumination

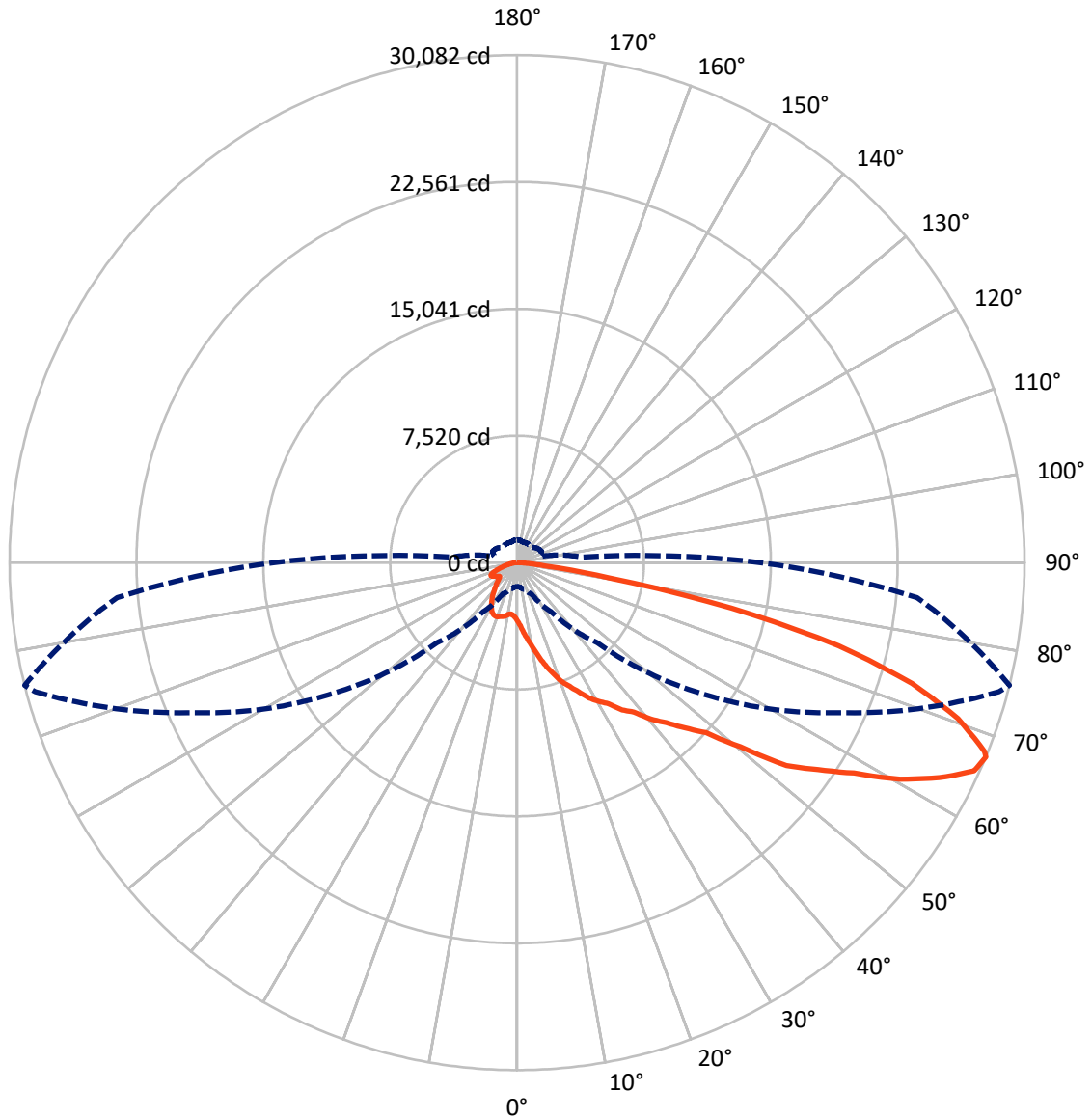
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4808.3	0.0	4808.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	28990.7	0.0	28990.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	33799.0	0.0	33799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.7	1.2
10°-20°	1502.7	4.4
20°-30°	2793.6	8.3
30°-40°	4428.6	13.1
40°-50°	6125.1	18.1
50°-60°	7534.3	22.3
60°-70°	7011.0	20.7
70°-80°	3518.1	10.4
80°-90°	485.1	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°	33799.0	100.0
0°-180°	33799.0	100.0

Coefficient of Utilization



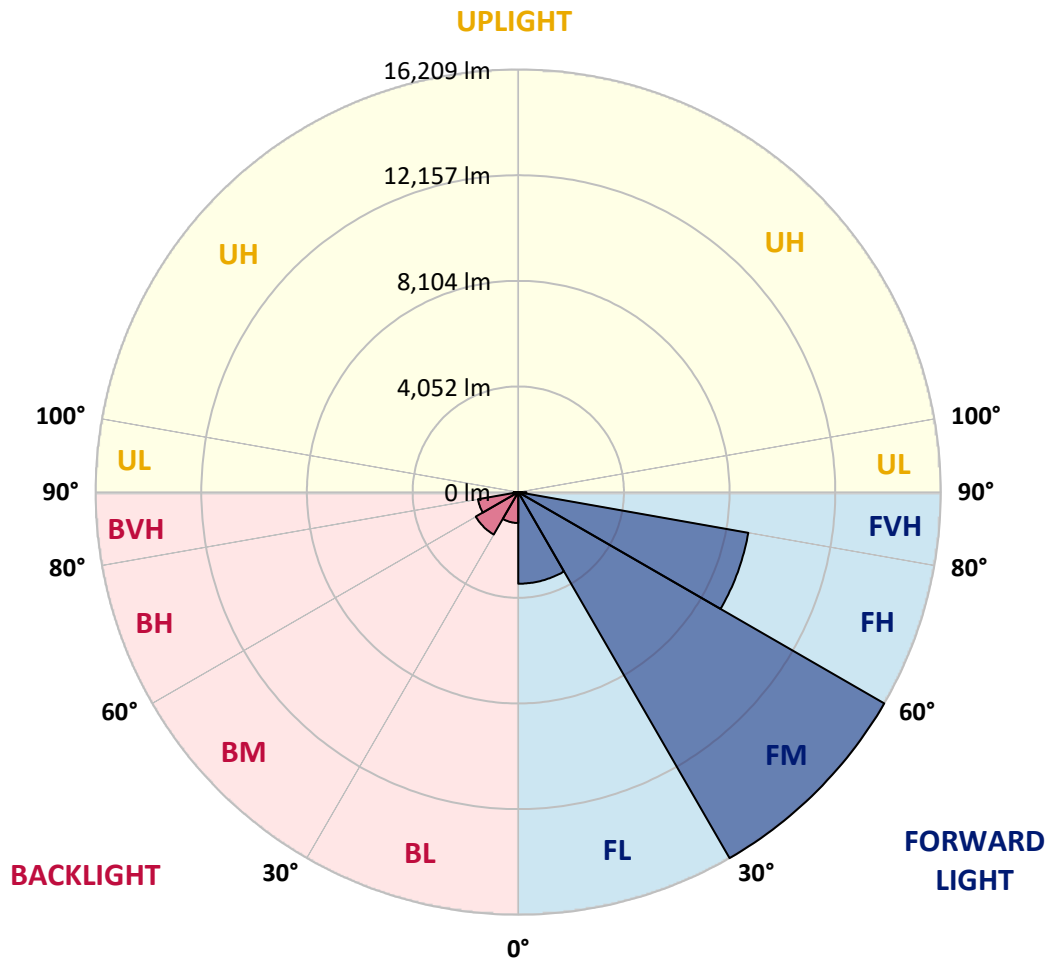
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3512.9	10.4			
FM (30°-60°)	16208.9	48.0			
FH (60°-80°)	8959.8	26.5			G4/12000
FVH (80°-90°)	309.1	0.9			G3/500
BL (0°-30°)	1184.1	3.5	B3/2500		
BM (30°-60°)	1879.0	5.6	B2/2500		
BH (60°-80°)	1569.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	176.0	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8
2.5°	4799.2	4741.4	4683.6	4560.4	4518.0	4402.5	4190.6	3955.7	3763.1	3736.1	3601.3
5°	5954.7	5870.0	5850.7	5781.4	5561.8	5338.4	4991.8	4614.3	4144.4	4179.1	3716.9
7.5°	6821.3	6771.3	6667.3	6601.8	6470.8	6174.3	5816.0	5315.3	4718.3	4602.8	3974.9
10°	7476.1	7406.8	7402.9	7345.2	7275.8	6971.5	6698.1	6024.0	5257.5	5099.6	4290.8
12.5°	7807.4	7795.8	7999.9	7999.9	7973.0	7845.9	7376.0	6759.7	5769.8	5715.9	4656.7
15°	8165.6	8069.3	8246.5	8381.3	8450.6	8516.1	8127.1	7476.1	6424.6	6320.6	5049.6
17.5°	8165.6	8157.9	8335.0	8558.4	8920.5	9005.2	8793.4	8134.8	6967.7	6890.7	5480.9
20°	8026.9	8138.6	8261.9	8562.3	8955.2	9298.0	9359.6	8808.8	7568.6	7506.9	5970.1
22.5°	8674.0	8566.1	8693.3	8808.8	9113.1	9633.1	9802.5	9402.0	8200.2	7965.3	6413.1
25°	9760.2	9687.0	9594.5	9425.1	9552.2	9779.4	10037.5	9841.1	8739.5	8477.6	6840.6
27.5°	10819.4	10823.2	10622.9	10253.2	9979.7	10025.9	10330.2	10226.2	9194.0	9078.4	7133.3
30°	12325.4	12233.0	12009.6	11508.8	10973.4	10534.4	10484.3	10584.4	9771.7	9548.3	7553.2
32.5°	13453.9	13473.2	13157.4	12437.1	11705.3	11347.1	10908.0	10950.3	10137.6	9972.0	7888.3
35°	14366.8	14343.7	14120.3	13523.3	12656.6	12225.2	11632.1	11389.4	10988.9	10726.9	8400.5
37.5°	15352.8	15164.1	14802.0	14128.0	13573.3	12976.3	12398.6	11851.6	11555.1	11239.2	8839.6
40°	15749.5	15749.5	15264.2	14956.1	14297.5	13846.8	13473.2	12460.2	12244.5	12182.9	9402.0
42.5°	15468.4	15641.7	15441.4	15090.9	14821.3	14251.2	14151.1	13091.9	13095.7	12972.5	10076.0
45°	15441.4	15202.6	15037.0	15125.6	14998.5	14967.6	15221.9	13966.2	13989.3	13973.9	10981.2
47.5°	14667.2	14559.4	14805.9	14952.2	15056.2	15533.8	16265.7	15010.0	15175.6	15060.1	12025.0
50°	13896.9	13877.6	14031.7	14563.2	15013.9	15799.6	17259.4	16620.0	17163.1	17155.4	13916.1
52.5°	11786.2	11990.3	12595.0	13719.7	14832.8	16161.7	18010.5	18676.8	19712.9	19994.1	15483.8
55°	9767.9	9660.0	10553.6	12186.7	14043.2	16304.2	18850.1	19913.2	21438.5	21642.6	17093.8
57.5°	7599.4	7799.7	8504.5	10072.2	12410.1	15599.3	19466.4	21134.2	23387.4	23545.3	18961.8
60°	5669.7	5696.6	6470.8	7734.2	10237.8	14008.6	19666.7	22386.0	25621.4	26072.1	20918.5
62.5°	3566.7	3728.4	4317.7	5561.8	7707.2	11782.3	18769.3	23144.8	27963.2	28082.6	22890.6
65°	1922.0	2026.0	2468.9	3250.8	5384.7	8912.8	16388.9	22690.3	29064.8	29773.5	23768.7
67°	1421.3	1440.5	1644.7	2076.1	3601.3	6709.6	13665.8	21045.6	29565.5	30081.7	23803.4
67.5°	1332.7	1359.6	1521.4	1864.2	3193.0	6178.1	12953.2	20460.1	29342.1	29896.8	23533.8
70°	1140.1	1147.8	1186.3	1282.6	1791.0	3716.9	8820.4	16766.4	27196.7	27728.3	21642.6
72.5°	1013.0	1020.7	1036.1	1055.4	1213.3	2149.2	5365.4	12903.1	23637.8	24485.2	18673.0
75°	889.7	916.7	924.4	909.0	1032.3	1398.2	2854.1	9482.8	19281.5	19693.7	14520.9
77.5°	754.9	766.5	781.9	797.3	920.6	1043.8	1371.2	6401.5	13234.4	12984.0	7853.6
80°	635.5	639.4	650.9	662.5	797.3	797.3	778.0	3458.8	5781.4	5527.2	2653.8
82.5°	454.5	481.5	508.4	539.2	662.5	535.4	508.4	1540.7	1829.6	1741.0	897.4
85°	177.2	215.7	335.1	369.8	419.8	288.9	338.9	666.3	762.6	754.9	335.1
87.5°	30.8	34.7	92.4	142.5	154.1	100.1	161.8	238.8	285.0	308.1	123.3
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°	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8
2.5°	3489.6	3370.2	3227.7	3085.2	2992.8	2846.4	2834.8	2746.3	2734.7	2703.9	2719.3
5°	3516.6	3374.1	3085.2	2858.0	2754.0	2669.2	2688.5	2650.0	2638.4	2619.1	2588.3
7.5°	3728.4	3447.3	3015.9	2819.4	2742.4	2703.9	2703.9	2657.7	2623.0	2646.1	2669.2
10°	3867.1	3481.9	3069.8	2873.4	2811.7	2727.0	2757.8	2700.0	2719.3	2673.1	2673.1
12.5°	4090.5	3678.4	3181.5	2954.2	2854.1	2777.1	2807.9	2742.4	2727.0	2730.8	2719.3
15°	4390.9	3809.3	3231.6	3000.5	2931.1	2834.8	2811.7	2754.0	2696.2	2676.9	2700.0
17.5°	4672.1	3971.1	3266.2	3027.4	2915.7	2807.9	2780.9	2707.7	2688.5	2630.7	2584.5
20°	5007.2	4163.7	3312.4	3050.5	2858.0	2750.1	2680.8	2607.6	2542.1	2507.4	2522.9
22.5°	5230.6	4263.8	3335.6	3004.3	2773.2	2673.1	2526.7	2476.6	2384.2	2345.7	2314.9
25°	5596.5	4387.1	3277.8	2877.2	2623.0	2461.2	2330.3	2260.9	2195.5	2145.4	2130.0
27.5°	5688.9	4479.5	3143.0	2661.5	2384.2	2214.7	2103.0	2018.3	1975.9	1898.9	1883.5
30°	5958.6	4387.1	2942.7	2399.6	2156.9	1983.6	1871.9	1810.3	1710.1	1690.9	1648.5
32.5°	6131.9	4414.0	2688.5	2145.4	1895.0	1741.0	1667.8	1606.2	1579.2	1486.8	1463.6
35°	6420.8	4321.6	2430.4	1910.4	1679.3	1559.9	1498.3	1479.0	1390.5	1348.1	1309.6
37.5°	6605.6	4267.7	2172.4	1644.7	1444.4	1394.3	1413.6	1332.7	1224.8	1144.0	1117.0
40°	6929.2	4248.4	1879.6	1425.1	1282.6	1271.1	1332.7	1178.6	982.2	912.8	874.3
42.5°	7395.2	4117.5	1652.4	1228.7	1155.5	1205.6	1217.1	982.2	870.5	812.7	785.7
45°	7842.0	4144.4	1429.0	1016.8	1005.3	1078.5	1051.5	832.0	766.5	724.1	747.2
47.5°	8701.0	4279.2	1209.4	847.4	905.1	974.5	816.6	743.4	681.7	650.9	654.8
50°	10029.8	4410.2	1016.8	774.2	855.1	882.0	701.0	674.0	670.2	608.6	604.7
52.5°	10827.1	4360.1	982.2	866.6	916.7	882.0	762.6	743.4	712.6	685.6	654.8
55°	12094.3	4506.5	1055.4	1013.0	1040.0	847.4	855.1	847.4	824.3	754.9	774.2
57.5°	13103.4	4602.8	1151.7	1132.4	1117.0	882.0	893.6	897.4	882.0	851.2	878.2
60°	14490.0	4795.3	1251.8	1255.6	1259.5	959.1	978.3	1001.4	997.6	986.0	993.7
62.5°	15341.3	4706.8	1363.5	1425.1	1405.9	1117.0	1113.1	1128.5	1128.5	1147.8	1159.4
65°	15214.2	4379.4	1421.3	1575.3	1475.2	1232.5	1232.5	1240.2	1244.1	1282.6	1286.5
67°	14451.5	3793.9	1390.5	1598.4	1475.2	1278.8	1278.8	1286.5	1259.5	1359.6	1328.8
67.5°	14097.2	3620.6	1363.5	1579.2	1463.6	1274.9	1274.9	1278.8	1255.6	1351.9	1321.1
70°	12259.9	2688.5	1174.8	1398.2	1355.8	1240.2	1240.2	1217.1	1197.9	1325.0	1298.0
72.5°	10465.0	1952.8	943.7	1190.2	1224.8	1194.0	1201.7	1144.0	1090.0	1178.6	1155.5
75°	8015.4	1436.7	735.7	916.7	1036.1	1117.0	1167.1	1020.7	951.4	974.5	932.1
77.5°	4471.8	936.0	581.6	677.9	789.6	1040.0	1120.8	920.6	778.0	751.1	751.1
80°	1517.6	546.9	427.5	504.6	543.1	920.6	1047.7	747.2	612.4	585.5	566.2
82.5°	573.9	335.1	292.7	346.7	346.7	728.0	855.1	573.9	462.2	597.0	608.6
85°	261.9	200.3	192.6	200.3	200.3	446.8	604.7	373.6	416.0	358.2	315.8
87.5°	104.0	96.3	88.6	84.7	69.3	77.0	208.0	100.1	188.7	50.1	46.2
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)