

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: P477166

Luminaire Tested: **IFLD-M-SA4E-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477166
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

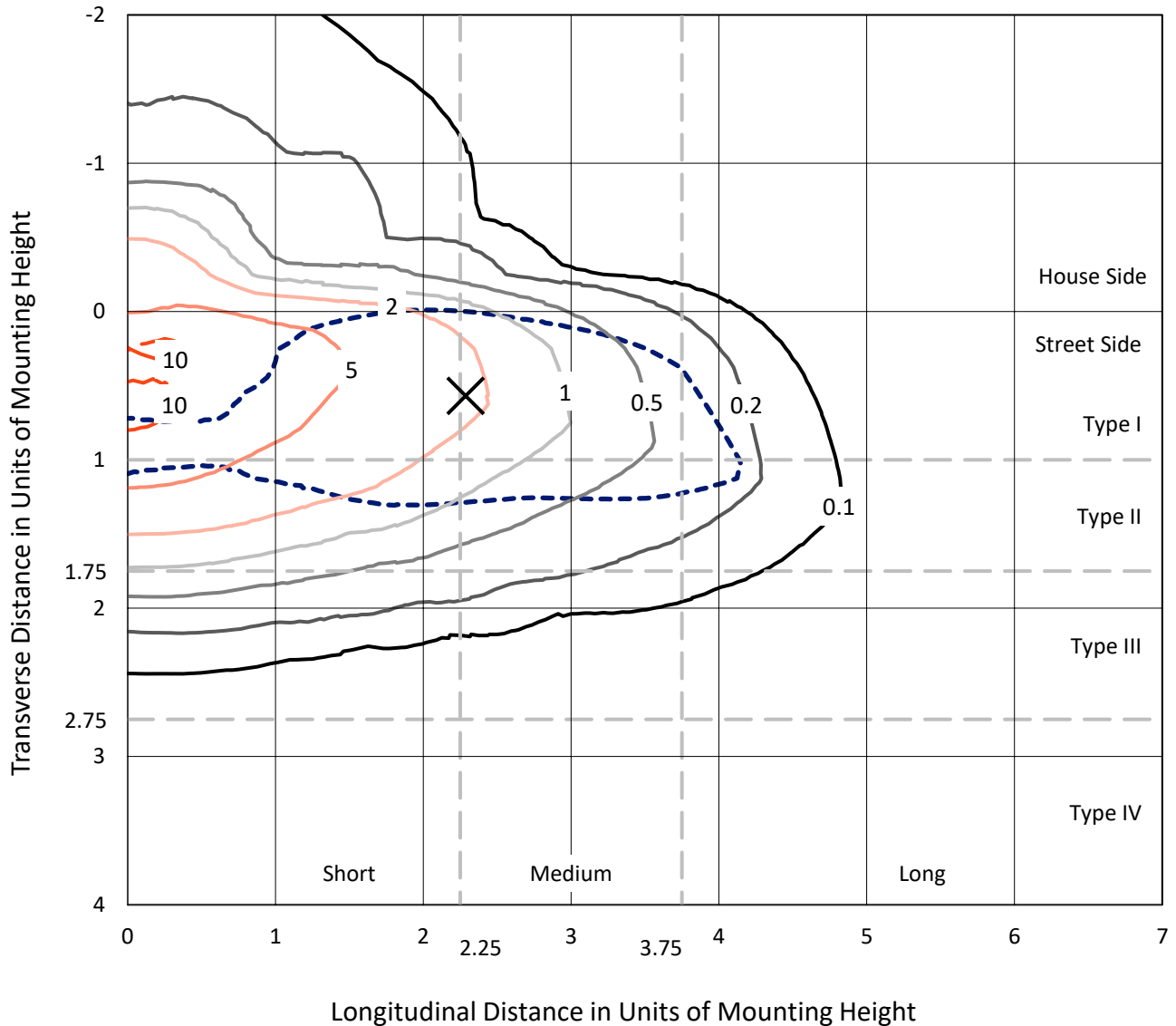
Lumens per Lamp: N/A
Luminaire Lumens: 28929.8 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

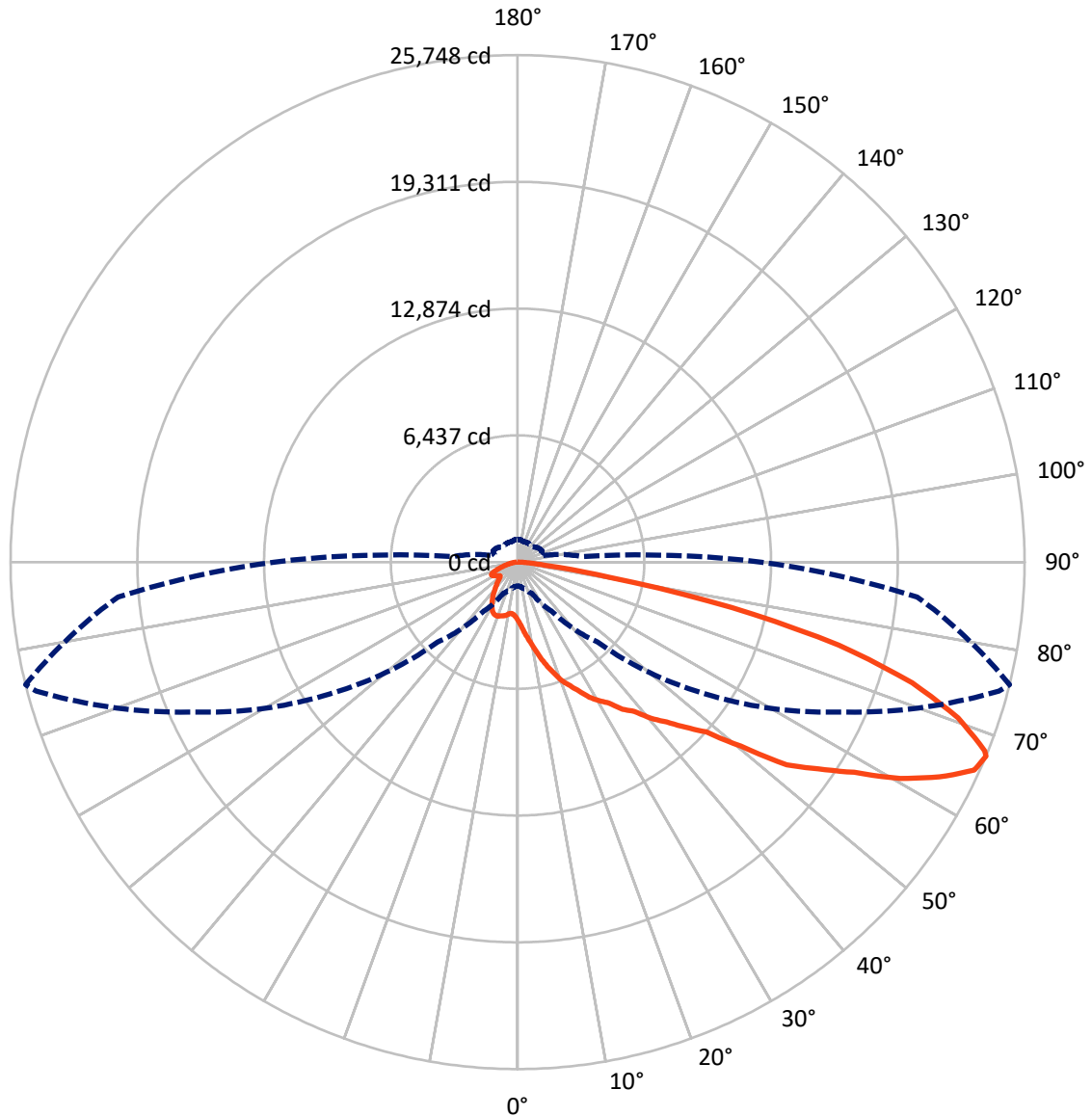
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	4115.6	0.0	4115.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	24814.2	0.0	24814.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	28929.8	0.0	28929.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.9	1.2
10°-20°	1286.2	4.4
20°-30°	2391.2	8.3
30°-40°	3790.6	13.1
40°-50°	5242.7	18.1
50°-60°	6448.9	22.3
60°-70°	6001.0	20.7
70°-80°	3011.2	10.4
80°-90°	415.2	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°	28929.8	100.0
0°-180°	28929.8	100.0

Coefficient of Utilization



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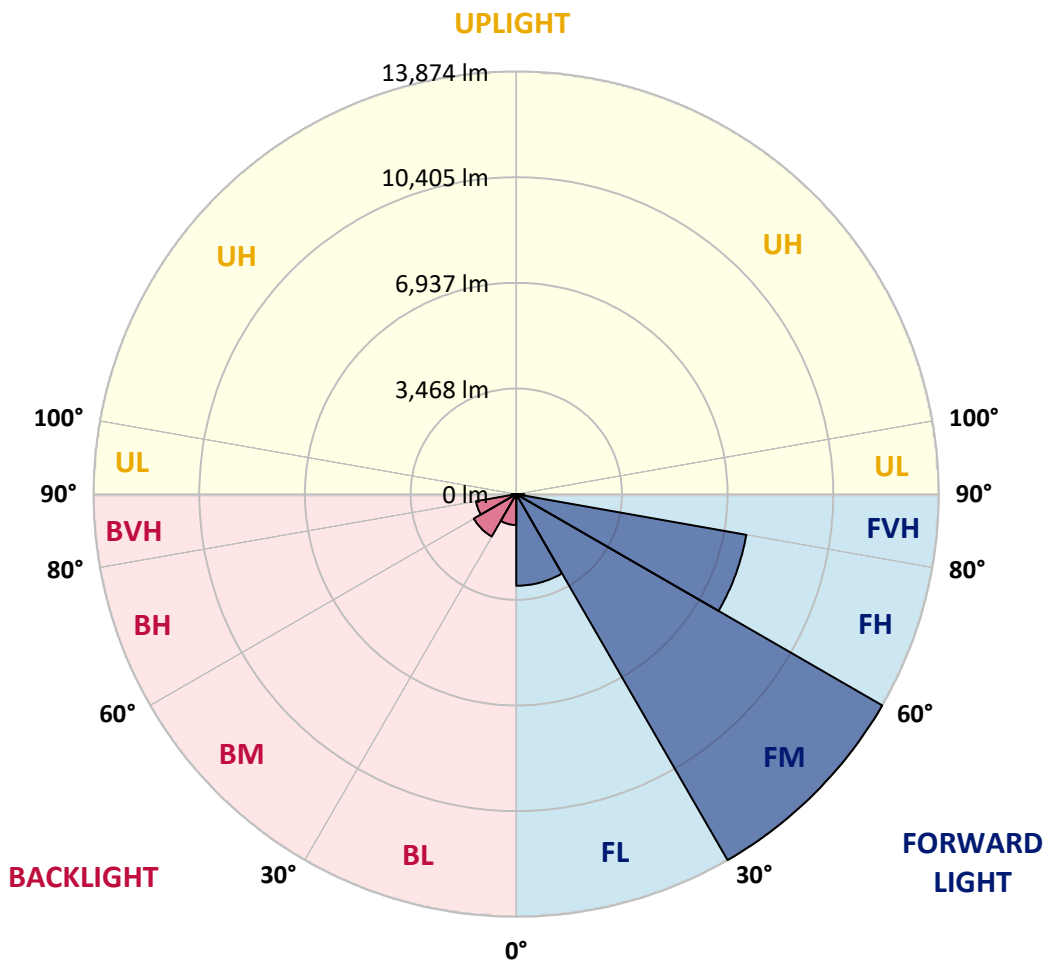
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3006.8	10.4			
FM (30°-60°)	13873.8	48.0			
FH (60°-80°)	7669.1	26.5			G4/12000
FVH (80°-90°)	264.5	0.9			G3/500
BL (0°-30°)	1013.5	3.5	B3/2500		
BM (30°-60°)	1608.3	5.6	B2/2500		
BH (60°-80°)	1343.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	150.7	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°	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5
2.5°	4107.8	4058.4	4008.9	3903.4	3867.1	3768.2	3586.9	3385.8	3221.0	3197.9	3082.5
5°	5096.9	5024.3	5007.8	4948.5	4760.6	4569.4	4272.7	3949.6	3547.4	3577.0	3181.4
7.5°	5838.6	5795.8	5706.8	5650.7	5538.6	5284.8	4978.2	4549.6	4038.6	3939.7	3402.3
10°	6399.1	6339.7	6336.5	6287.0	6227.7	5967.2	5733.1	5156.2	4500.1	4365.0	3672.6
12.5°	6682.6	6672.7	6847.5	6847.5	6824.4	6715.6	6313.4	5785.9	4938.6	4892.5	3985.8
15°	6989.2	6906.8	7058.5	7173.8	7233.2	7289.2	6956.3	6399.1	5499.1	5410.1	4322.1
17.5°	6989.2	6982.6	7134.3	7325.5	7635.4	7707.9	7526.6	6962.8	5963.9	5898.0	4691.3
20°	6870.5	6966.1	7071.6	7328.8	7665.1	7958.5	8011.2	7539.8	6478.2	6425.5	5110.0
22.5°	7424.4	7332.1	7440.9	7539.8	7800.2	8245.3	8390.4	8047.5	7018.9	6817.8	5489.2
25°	8354.1	8291.5	8212.3	8067.3	8176.1	8370.6	8591.5	8423.3	7480.4	7256.3	5855.1
27.5°	9260.7	9264.0	9092.6	8776.1	8542.0	8581.6	8842.0	8753.0	7869.5	7770.6	6105.7
30°	10549.8	10470.6	10279.4	9850.8	9392.6	9016.8	8973.9	9059.6	8364.0	8172.8	6465.0
32.5°	11515.7	11532.2	11261.9	10645.4	10019.0	9712.4	9336.5	9372.8	8677.2	8535.4	6751.8
35°	12297.1	12277.3	12086.1	11575.1	10833.3	10464.0	9956.3	9748.6	9405.8	9181.6	7190.3
37.5°	13141.1	12979.5	12669.6	12092.7	11617.9	11106.9	10612.4	10144.3	9890.4	9620.1	7566.2
40°	13480.6	13480.6	13065.2	12801.5	12237.7	11852.0	11532.2	10665.2	10480.5	10427.8	8047.5
42.5°	13240.0	13388.3	13216.9	12916.9	12686.1	12198.2	12112.4	11205.8	11209.1	11103.6	8624.4
45°	13216.9	13012.5	12870.7	12946.5	12837.7	12811.4	13029.0	11954.2	11974.0	11960.8	9399.2
47.5°	12554.2	12461.9	12672.9	12798.2	12887.2	13296.0	13922.4	12847.6	12989.4	12890.5	10292.6
50°	11894.9	11878.4	12010.2	12465.2	12850.9	13523.5	14773.0	14225.7	14690.5	14684.0	11911.3
52.5°	10088.2	10262.9	10780.5	11743.2	12696.0	13833.4	15415.8	15986.2	16873.0	17113.7	13253.1
55°	8360.7	8268.4	9033.2	10431.1	12020.1	13955.4	16134.5	17044.5	18350.0	18524.7	14631.2
57.5°	6504.6	6676.0	7279.3	8621.1	10622.3	13352.0	16662.0	18089.6	20018.2	20153.3	16230.2
60°	4852.9	4876.0	5538.6	6620.0	8762.9	11990.5	16833.5	19161.0	21930.3	22316.1	17904.9
62.5°	3052.8	3191.3	3695.7	4760.6	6596.9	10084.9	16065.3	19810.5	23934.8	24037.0	19592.9
65°	1645.1	1734.1	2113.2	2782.5	4608.9	7628.8	14027.9	19421.5	24877.7	25484.3	20344.6
67°	1216.5	1233.0	1407.7	1777.0	3082.5	5743.0	11697.1	18013.7	25306.2	25748.0	20374.2
67.5°	1140.7	1163.8	1302.2	1595.7	2733.0	5288.1	11087.1	17512.6	25115.0	25589.8	20143.5
70°	975.9	982.4	1015.4	1097.8	1533.0	3181.4	7549.7	14351.0	23278.7	23733.7	18524.7
72.5°	867.1	873.7	886.8	903.3	1038.5	1839.6	4592.4	11044.3	20232.5	20957.8	15982.9
75°	761.6	784.6	791.2	778.0	883.5	1196.7	2442.9	8116.7	16503.8	16856.5	12428.9
77.5°	646.2	656.1	669.3	682.4	787.9	893.4	1173.7	5479.3	11327.8	11113.5	6722.2
80°	544.0	547.3	557.2	567.0	682.4	682.4	666.0	2960.5	4948.5	4730.9	2271.5
82.5°	389.0	412.1	435.2	461.6	567.0	458.3	435.2	1318.7	1566.0	1490.2	768.2
85°	151.7	184.6	286.8	316.5	359.4	247.3	290.1	570.3	652.8	646.2	286.8
87.5°	26.4	29.7	79.1	122.0	131.9	85.7	138.5	204.4	244.0	263.7	105.5
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°	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5	2960.5
2.5°	2986.9	2884.7	2762.7	2640.7	2561.6	2436.3	2426.4	2350.6	2340.7	2314.4	2327.5
5°	3010.0	2888.0	2640.7	2446.2	2357.2	2284.7	2301.2	2268.2	2258.3	2241.8	2215.5
7.5°	3191.3	2950.6	2581.4	2413.3	2347.3	2314.4	2314.4	2274.8	2245.1	2264.9	2284.7
10°	3310.0	2980.3	2627.6	2459.4	2406.7	2334.1	2360.5	2311.1	2327.5	2288.0	2288.0
12.5°	3501.2	3148.4	2723.2	2528.6	2442.9	2377.0	2403.4	2347.3	2334.1	2337.4	2327.5
15°	3758.4	3260.5	2766.0	2568.2	2508.9	2426.4	2406.7	2357.2	2307.8	2291.3	2311.1
17.5°	3999.0	3399.0	2795.7	2591.3	2495.7	2403.4	2380.3	2317.7	2301.2	2251.7	2212.2
20°	4285.8	3563.8	2835.2	2611.1	2446.2	2353.9	2294.6	2231.9	2175.9	2146.2	2159.4
22.5°	4477.1	3649.6	2855.0	2571.5	2373.7	2288.0	2162.7	2119.8	2040.7	2007.8	1981.4
25°	4790.3	3755.1	2805.6	2462.7	2245.1	2106.7	1994.6	1935.2	1879.2	1836.3	1823.1
27.5°	4869.4	3834.2	2690.2	2278.1	2040.7	1895.7	1800.1	1727.5	1691.3	1625.3	1612.1
30°	5100.2	3755.1	2518.8	2053.9	1846.2	1697.9	1602.2	1549.5	1463.8	1447.3	1411.0
32.5°	5248.5	3778.1	2301.2	1836.3	1622.0	1490.2	1427.5	1374.8	1351.7	1272.6	1252.8
35°	5495.8	3699.0	2080.3	1635.2	1437.4	1335.2	1282.5	1266.0	1190.1	1153.9	1120.9
37.5°	5654.0	3652.9	1859.4	1407.7	1236.3	1193.4	1209.9	1140.7	1048.4	979.2	956.1
40°	5930.9	3636.4	1608.8	1219.8	1097.8	1087.9	1140.7	1008.8	840.7	781.3	748.4
42.5°	6329.9	3524.3	1414.3	1051.7	989.0	1031.9	1041.8	840.7	745.1	695.6	672.5
45°	6712.3	3547.4	1223.1	870.4	860.5	923.1	900.0	712.1	656.1	619.8	639.6
47.5°	7447.5	3662.7	1035.2	725.3	774.7	834.1	698.9	636.3	583.5	557.2	560.5
50°	8584.9	3774.8	870.4	662.7	731.9	755.0	600.0	576.9	573.6	520.9	517.6
52.5°	9267.3	3732.0	840.7	741.8	784.6	755.0	652.8	636.3	609.9	586.8	560.5
55°	10352.0	3857.3	903.3	867.1	890.1	725.3	731.9	725.3	705.5	646.2	662.7
57.5°	11215.7	3939.7	985.7	969.3	956.1	755.0	764.9	768.2	755.0	728.6	751.7
60°	12402.6	4104.5	1071.5	1074.8	1078.1	820.9	837.4	857.2	853.9	844.0	850.6
62.5°	13131.2	4028.7	1167.1	1219.8	1203.3	956.1	952.8	966.0	966.0	982.4	992.3
65°	13022.4	3748.5	1216.5	1348.4	1262.7	1055.0	1055.0	1061.6	1064.9	1097.8	1101.1
67°	12369.6	3247.3	1190.1	1368.2	1262.7	1094.5	1094.5	1101.1	1078.1	1163.8	1137.4
67.5°	12066.3	3099.0	1167.1	1351.7	1252.8	1091.2	1091.2	1094.5	1074.8	1157.2	1130.8
70°	10493.7	2301.2	1005.5	1196.7	1160.5	1061.6	1061.6	1041.8	1025.3	1134.1	1111.0
72.5°	8957.4	1671.5	807.7	1018.7	1048.4	1022.0	1028.6	979.2	933.0	1008.8	989.0
75°	6860.6	1229.7	629.7	784.6	886.8	956.1	998.9	873.7	814.3	834.1	797.8
77.5°	3827.6	801.1	497.8	580.2	675.8	890.1	959.4	787.9	666.0	642.9	642.9
80°	1298.9	468.1	365.9	431.9	464.8	787.9	896.7	639.6	524.2	501.1	484.6
82.5°	491.2	286.8	250.6	296.7	296.7	623.1	731.9	491.2	395.6	511.0	520.9
85°	224.2	171.4	164.8	171.4	171.4	382.4	517.6	319.8	356.1	306.6	270.3
87.5°	89.0	82.4	75.8	72.5	59.3	65.9	178.0	85.7	161.5	42.9	39.6
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)