

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: P477174

Luminaire Tested: **IFLD-L-SA8C-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477174
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

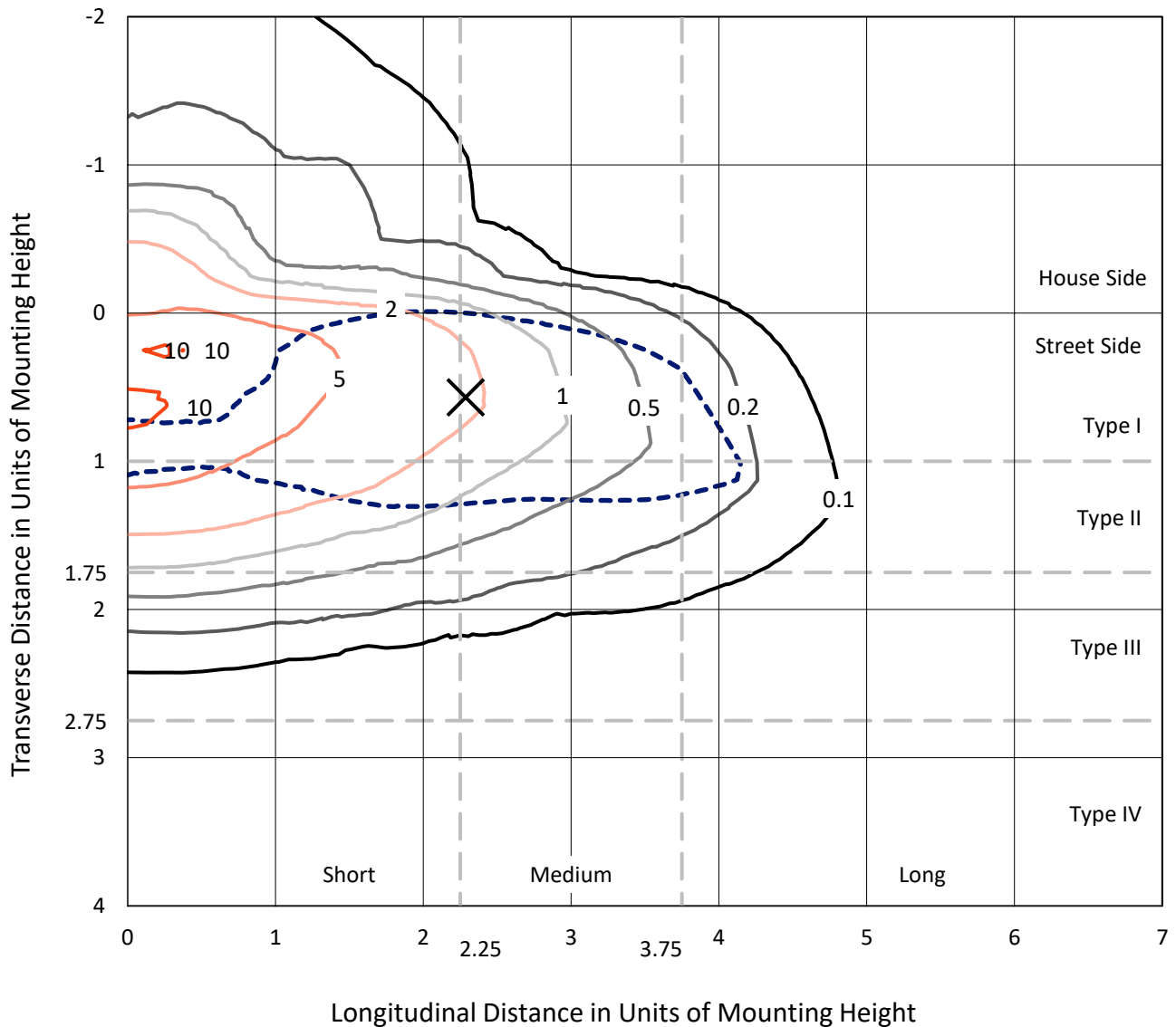
Lumens per Lamp: N/A
Luminaire Lumens: 40483.9 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 420.3
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

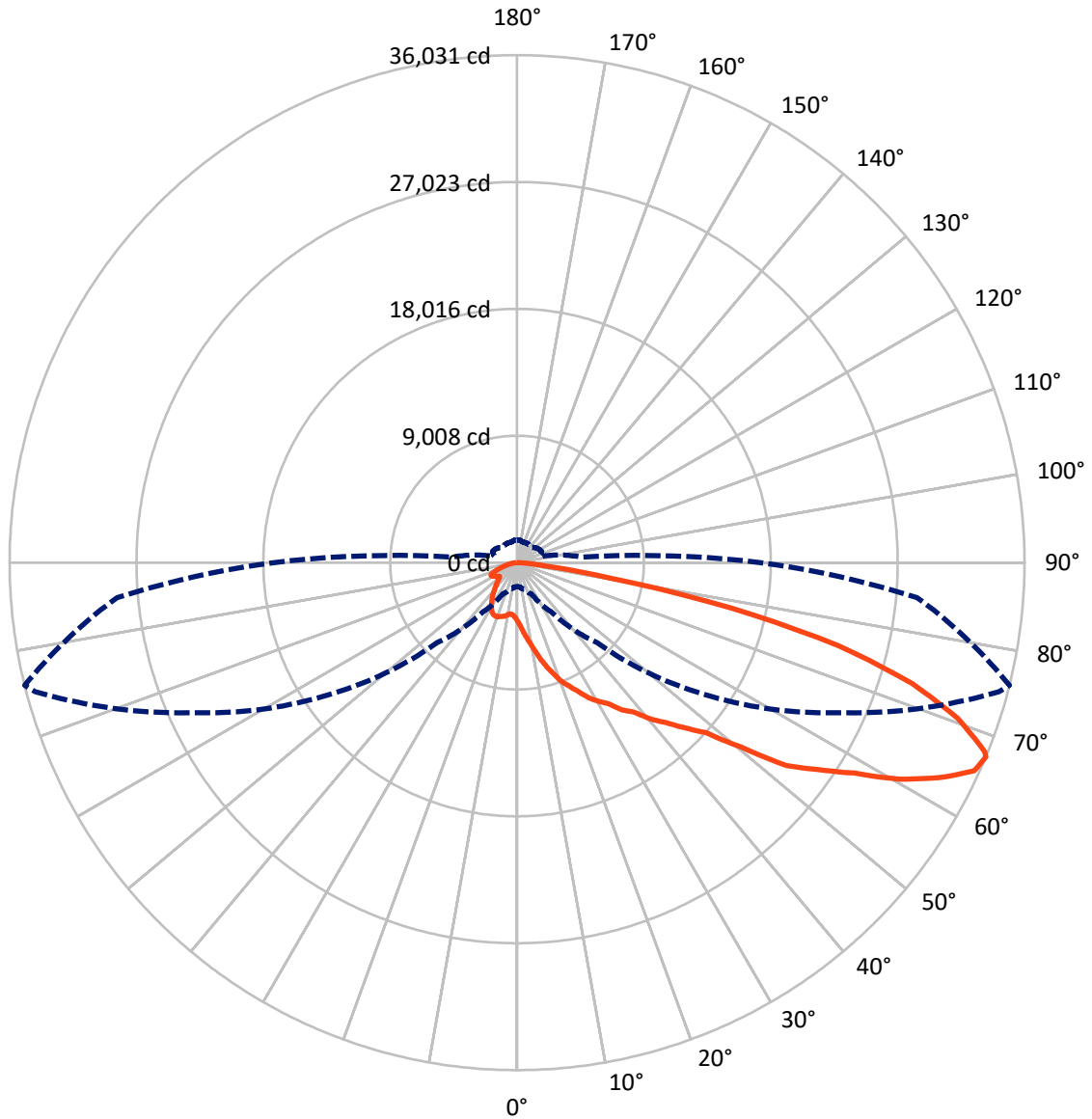
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 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	5759.3	0.0	5759.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	34724.5	0.0	34724.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	40483.9	0.0	40483.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.9	1.2
10°-20°	1799.9	4.4
20°-30°	3346.2	8.3
30°-40°	5304.5	13.1
40°-50°	7336.5	18.1
50°-60°	9024.4	22.3
60°-70°	8397.6	20.7
70°-80°	4213.9	10.4
80°-90°	581.0	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°	40483.9	100.0
0°-180°	40483.9	100.0

Coefficient of Utilization



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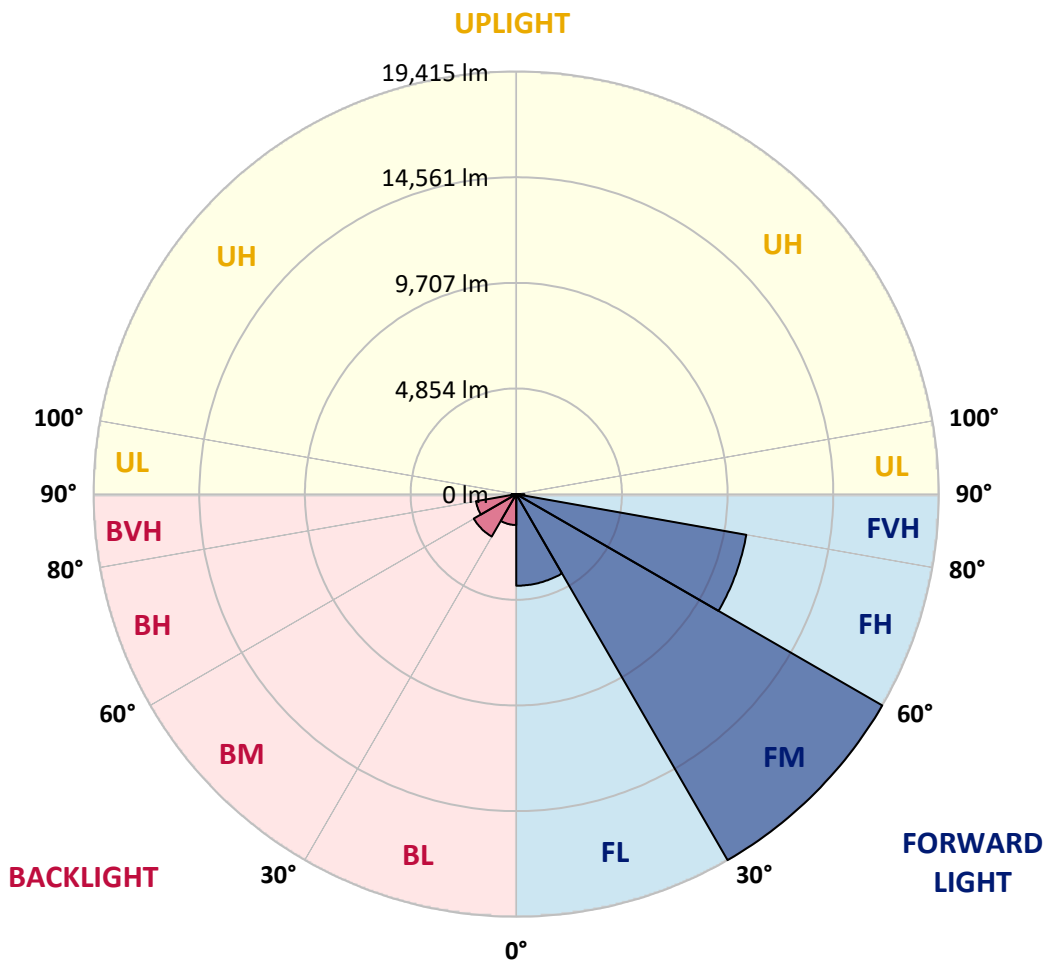
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4207.6	10.4			
FM (30°-60°)	19414.7	48.0			
FH (60°-80°)	10731.9	26.5			G4/12000
FVH (80°-90°)	370.2	0.9			G3/500
BL (0°-30°)	1418.3	3.5	B3/2500		
BM (30°-60°)	2250.6	5.6	B2/2500		
BH (60°-80°)	1879.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	210.8	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°	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9
2.5°	5748.4	5679.2	5610.0	5462.4	5411.6	5273.2	5019.5	4738.0	4507.4	4475.1	4313.6
5°	7132.4	7030.9	7007.9	6924.8	6661.9	6394.3	5979.1	5526.9	4964.1	5005.6	4452.0
7.5°	8170.5	8110.5	7985.9	7907.5	7750.6	7395.4	6966.4	6366.6	5651.5	5513.1	4761.1
10°	8954.8	8871.7	8867.1	8797.9	8714.9	8350.4	8022.8	7215.5	6297.4	6108.2	5139.4
12.5°	9351.5	9337.7	9582.2	9582.2	9549.9	9397.7	8834.8	8096.7	6911.0	6846.4	5577.7
15°	9780.6	9665.2	9877.5	10038.9	10122.0	10200.4	9734.4	8954.8	7695.3	7570.7	6048.3
17.5°	9780.6	9771.3	9983.6	10251.1	10684.8	10786.3	10532.6	9743.7	8345.8	8253.5	6565.0
20°	9614.5	9748.3	9895.9	10255.8	10726.3	11136.9	11210.8	10551.0	9065.5	8991.7	7150.9
22.5°	10389.6	10260.4	10412.6	10551.0	10915.5	11538.3	11741.3	11261.5	9822.1	9540.7	7681.4
25°	11690.6	11602.9	11492.2	11289.2	11441.4	11713.6	12022.7	11787.4	10468.0	10154.3	8193.5
27.5°	12959.3	12963.9	12724.0	12281.1	11953.5	12008.9	12373.3	12248.8	11012.4	10874.0	8544.2
30°	14763.1	14652.4	14384.8	13785.1	13143.8	12617.9	12557.9	12677.8	11704.4	11436.8	9047.0
32.5°	16114.9	16137.9	15759.6	14896.9	14020.4	13591.3	13065.4	13116.1	12142.7	11944.3	9448.4
35°	17208.3	17180.6	16913.0	16197.9	15159.9	14643.2	13932.7	13642.1	13162.3	12848.5	10062.0
37.5°	18389.3	18163.3	17729.6	16922.2	16257.9	15542.8	14850.8	14195.7	13840.4	13462.1	10587.9
40°	18864.5	18864.5	18283.2	17914.1	17125.2	16585.5	16137.9	14924.6	14666.2	14592.4	11261.5
42.5°	18527.7	18735.3	18495.4	18075.6	17752.7	17069.9	16949.9	15681.2	15685.8	15538.2	12068.9
45°	18495.4	18209.4	18011.0	18117.1	17964.9	17928.0	18232.5	16728.5	16756.2	16737.7	13153.0
47.5°	17568.1	17438.9	17734.2	17909.5	18034.1	18606.2	19482.7	17978.7	18177.1	18038.7	14403.3
50°	16645.4	16622.4	16806.9	17443.6	17983.3	18924.5	20673.0	19907.2	20557.7	20548.4	16668.5
52.5°	14117.2	14361.8	15086.1	16433.2	17766.5	19358.2	21572.6	22370.8	23611.8	23948.6	18546.2
55°	11699.8	11570.6	12640.9	14597.0	16820.7	19528.9	22578.4	23851.7	25678.6	25923.1	20474.6
57.5°	9102.4	9342.3	10186.6	12064.2	14864.6	18684.6	23316.5	25314.2	28013.0	28202.2	22712.2
60°	6791.0	6823.3	7750.6	9263.9	12262.6	16779.2	23556.4	26813.5	30688.9	31228.6	25055.8
62.5°	4272.1	4465.8	5171.7	6661.9	9231.6	14112.6	22481.5	27722.4	33493.8	33636.9	27417.9
65°	2302.1	2426.7	2957.2	3893.8	6449.6	10675.6	19630.3	27178.0	34813.3	35662.2	28469.8
67°	1702.4	1725.4	1970.0	2486.7	4313.6	8036.7	16368.6	25208.0	35413.1	36031.3	28511.3
67.5°	1596.3	1628.6	1822.3	2232.9	3824.6	7400.0	15515.1	24506.8	35145.5	35809.8	28188.4
70°	1365.6	1374.8	1421.0	1536.3	2145.3	4452.0	10564.9	20082.5	32575.8	33212.4	25923.1
72.5°	1213.3	1222.6	1241.0	1264.1	1453.2	2574.3	6426.6	15455.2	28312.9	29327.9	22366.1
75°	1065.7	1098.0	1107.2	1088.8	1236.4	1674.7	3418.6	11358.4	23095.1	23588.7	17392.8
77.5°	904.2	918.1	936.5	955.0	1102.6	1250.3	1642.4	7667.6	15851.9	15552.0	9406.9
80°	761.2	765.8	779.7	793.5	955.0	955.0	931.9	4142.9	6924.8	6620.3	3178.7
82.5°	544.4	576.7	609.0	645.9	793.5	641.3	609.0	1845.4	2191.4	2085.3	1074.9
85°	212.2	258.4	401.4	442.9	502.9	346.0	406.0	798.1	913.5	904.2	401.4
87.5°	36.9	41.5	110.7	170.7	184.5	120.0	193.8	286.0	341.4	369.1	147.6
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°	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9	4142.9
2.5°	4179.8	4036.8	3866.1	3695.4	3584.7	3409.4	3395.5	3289.4	3275.6	3238.7	3257.1
5°	4212.1	4041.4	3695.4	3423.2	3298.6	3197.1	3220.2	3174.1	3160.2	3137.2	3100.3
7.5°	4465.8	4129.1	3612.4	3377.1	3284.8	3238.7	3238.7	3183.3	3141.8	3169.5	3197.1
10°	4631.9	4170.6	3676.9	3441.7	3367.8	3266.3	3303.3	3234.0	3257.1	3201.8	3201.8
12.5°	4899.5	4405.9	3810.7	3538.5	3418.6	3326.3	3363.2	3284.8	3266.3	3271.0	3257.1
15°	5259.4	4562.7	3870.7	3593.9	3510.9	3395.5	3367.8	3298.6	3229.4	3206.4	3234.0
17.5°	5596.1	4756.5	3912.2	3626.2	3492.4	3363.2	3330.9	3243.3	3220.2	3151.0	3095.6
20°	5997.5	4987.2	3967.6	3653.9	3423.2	3294.0	3211.0	3123.3	3044.9	3003.4	3021.8
22.5°	6265.1	5107.1	3995.3	3598.5	3321.7	3201.8	3026.4	2966.5	2855.7	2809.6	2772.7
25°	6703.4	5254.8	3926.1	3446.3	3141.8	2948.0	2791.2	2708.1	2629.7	2569.7	2551.3
27.5°	6814.1	5365.5	3764.6	3187.9	2855.7	2652.7	2519.0	2417.5	2366.7	2274.4	2256.0
30°	7137.1	5254.8	3524.7	2874.2	2583.5	2375.9	2242.2	2168.3	2048.4	2025.3	1974.6
32.5°	7344.7	5287.0	3220.2	2569.7	2269.8	2085.3	1997.6	1923.8	1891.5	1780.8	1753.1
35°	7690.7	5176.3	2911.1	2288.3	2011.5	1868.5	1794.6	1771.6	1665.5	1614.7	1568.6
37.5°	7912.1	5111.7	2602.0	1970.0	1730.1	1670.1	1693.1	1596.3	1467.1	1370.2	1337.9
40°	8299.6	5088.7	2251.4	1707.0	1536.3	1522.4	1596.3	1411.7	1176.4	1093.4	1047.3
42.5°	8857.9	4931.8	1979.2	1471.7	1384.0	1444.0	1457.9	1176.4	1042.6	973.4	941.1
45°	9393.0	4964.1	1711.6	1218.0	1204.1	1291.8	1259.5	996.5	918.1	867.3	895.0
47.5°	10421.8	5125.6	1448.6	1015.0	1084.2	1167.2	978.1	890.4	816.6	779.7	784.3
50°	12013.5	5282.4	1218.0	927.3	1024.2	1056.5	839.7	807.4	802.7	728.9	724.3
52.5°	12968.5	5222.5	1176.4	1038.0	1098.0	1056.5	913.5	890.4	853.5	821.2	784.3
55°	14486.3	5397.8	1264.1	1213.3	1245.6	1015.0	1024.2	1015.0	987.3	904.2	927.3
57.5°	15695.1	5513.1	1379.4	1356.4	1337.9	1056.5	1070.3	1074.9	1056.5	1019.6	1051.9
60°	17355.9	5743.8	1499.4	1504.0	1508.6	1148.8	1171.8	1199.5	1194.9	1181.1	1190.3
62.5°	18375.5	5637.7	1633.2	1707.0	1683.9	1337.9	1333.3	1351.7	1351.7	1374.8	1388.7
65°	18223.2	5245.5	1702.4	1886.9	1767.0	1476.3	1476.3	1485.5	1490.2	1536.3	1540.9
67°	17309.8	4544.3	1665.5	1914.6	1767.0	1531.7	1531.7	1540.9	1508.6	1628.6	1591.6
67.5°	16885.3	4336.7	1633.2	1891.5	1753.1	1527.1	1527.1	1531.7	1504.0	1619.3	1582.4
70°	14684.7	3220.2	1407.1	1674.7	1623.9	1485.5	1485.5	1457.9	1434.8	1587.0	1554.7
72.5°	12534.8	2339.0	1130.3	1425.6	1467.1	1430.2	1439.4	1370.2	1305.6	1411.7	1384.0
75°	9600.6	1720.8	881.2	1098.0	1241.0	1337.9	1397.9	1222.6	1139.5	1167.2	1116.5
77.5°	5356.2	1121.1	696.6	812.0	945.8	1245.6	1342.5	1102.6	931.9	899.6	899.6
80°	1817.7	655.1	512.1	604.4	650.5	1102.6	1254.9	895.0	733.5	701.2	678.2
82.5°	687.4	401.4	350.6	415.2	415.2	871.9	1024.2	687.4	553.6	715.1	728.9
85°	313.7	239.9	230.7	239.9	239.9	535.2	724.3	447.5	498.3	429.1	378.3
87.5°	124.6	115.3	106.1	101.5	83.0	92.3	249.1	120.0	226.1	60.0	55.4
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)