

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: P478142

Luminaire Tested: **IFLD-L-SA7A-735-U-T4FT**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478142
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

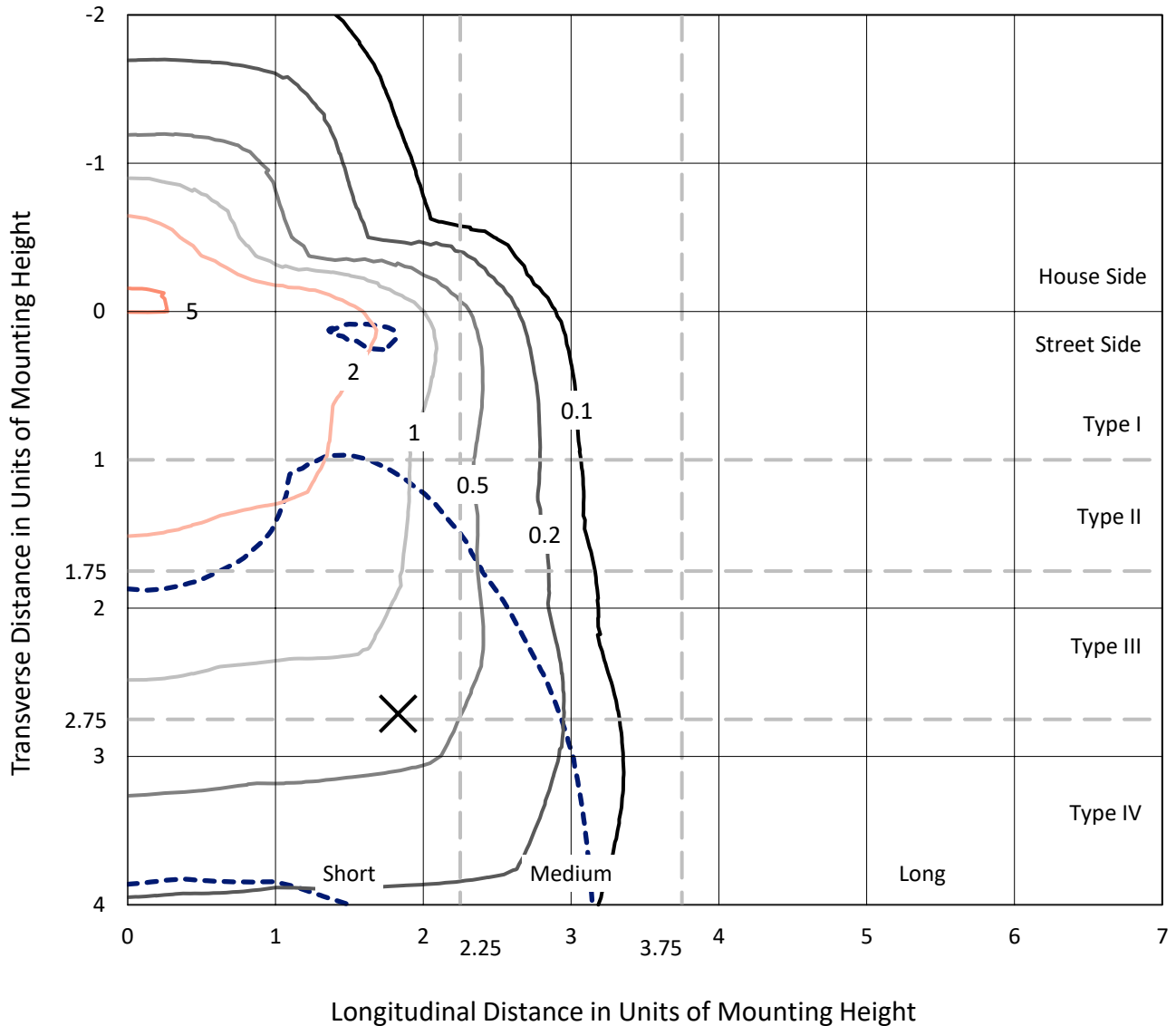
Lumens per Lamp: N/A
Luminaire Lumens: 31627.8 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 217.6
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: P478142
 CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

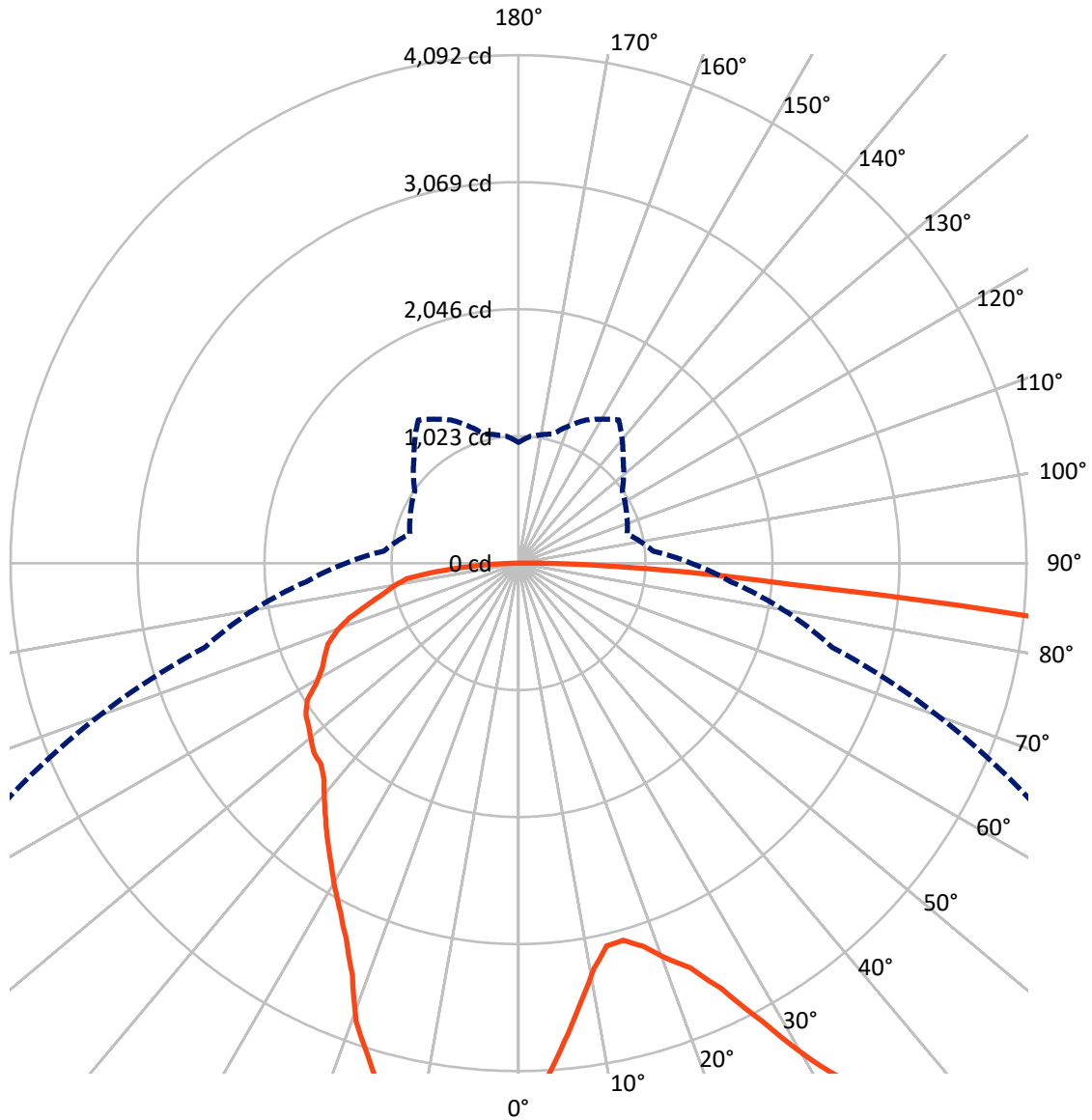
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P478142
CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478142
 CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6832.0	0.0	6832.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24795.8	0.0	24795.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	31627.8	0.0	31627.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.5	1.3
10°-20°	1171.2	3.7
20°-30°	1927.6	6.1
30°-40°	2882.7	9.1
40°-50°	4273.6	13.5
50°-60°	6158.6	19.5
60°-70°	7859.3	24.8
70°-80°	6115.8	19.3
80°-90°	820.5	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°	31627.8	100.0
0°-180°	31627.8	100.0

Coefficient of Utilization



REPORT NUMBER: P478142

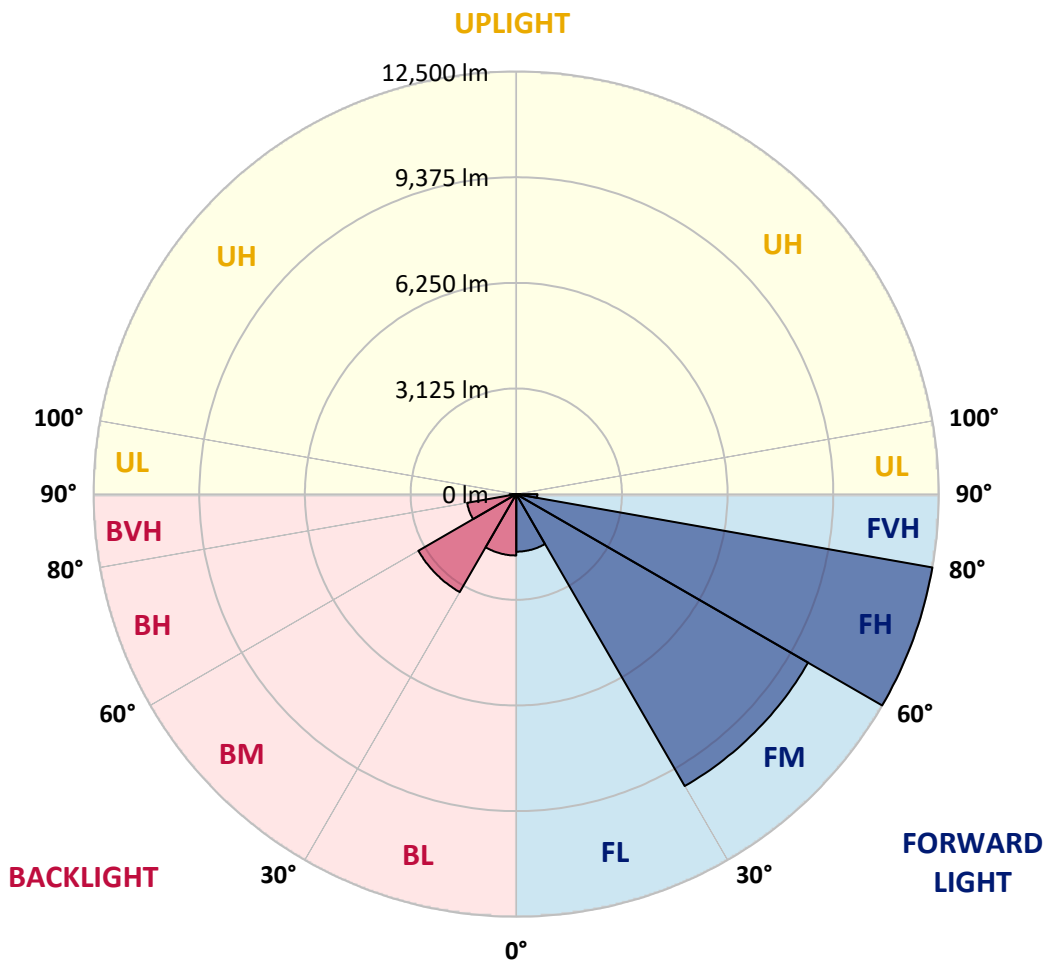
CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1702.1	5.4			
FM (30°-60°)	9969.3	31.5			
FH (60°-80°)	12499.9	39.5			G5
FVH (80°-90°)	624.5	2.0			G4/750
BL (0°-30°)	1815.2	5.7	B3/2500		
BM (30°-60°)	3345.6	10.6	B3/5000		
BH (60°-80°)	1475.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	195.9	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-G5

Type IV Short





REPORT NUMBER: P478142
 CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3
2.5°	4062.9	4076.2	4119.7	4129.7	4176.5	4149.8	4206.6	4307.0	4363.8	4447.4	4547.7
5°	3741.8	3685.0	3711.7	3815.4	3868.9	3882.3	3942.5	4113.0	4220.0	4343.7	4531.0
7.5°	3364.0	3353.9	3407.4	3474.3	3581.3	3591.4	3725.1	3875.6	4096.3	4370.5	4591.2
10°	3106.5	3150.0	3180.1	3250.3	3323.8	3323.8	3494.4	3755.2	4006.0	4270.2	4604.6
12.5°	3093.1	3066.4	3073.1	3109.8	3163.3	3230.2	3390.7	3624.8	3942.5	4250.1	4661.4
15°	3136.6	3146.6	3086.4	3133.2	3153.3	3176.7	3353.9	3618.1	3902.3	4320.3	4758.4
17.5°	3367.3	3310.5	3216.8	3173.4	3243.6	3243.6	3364.0	3571.3	3909.0	4357.1	4898.8
20°	3547.9	3547.9	3394.1	3347.3	3397.4	3387.4	3471.0	3624.8	3942.5	4430.7	5056.0
22.5°	3852.2	3895.7	3641.5	3544.5	3541.2	3568.0	3641.5	3771.9	4036.1	4534.3	5206.5
25°	4290.2	4300.3	4006.0	3905.7	3798.7	3842.2	3855.5	3985.9	4119.7	4654.7	5377.0
27.5°	4778.4	4771.8	4500.9	4250.1	4179.9	4189.9	4116.4	4203.3	4243.4	4691.5	5621.1
30°	5320.2	5260.0	5056.0	4701.5	4644.7	4581.2	4420.6	4417.3	4500.9	4898.8	5958.8
32.5°	5674.6	5597.7	5457.3	5203.1	5046.0	5052.6	4798.5	4795.2	4721.6	5126.2	6253.1
35°	6022.4	5905.3	5868.6	5607.7	5450.6	5467.3	5263.3	5236.6	5102.8	5470.6	6738.0
37.5°	6440.4	6336.7	6393.6	6196.3	6002.3	5922.1	5828.4	5795.0	5621.1	5955.5	7400.1
40°	6901.8	6868.4	6831.6	6734.6	6617.6	6624.3	6524.0	6490.5	6233.0	6540.7	8035.4
42.5°	7523.8	7396.7	7206.1	7269.7	7329.8	7393.4	7359.9	7273.0	7005.5	7135.9	8744.3
45°	8102.3	7935.1	7584.0	7604.1	7851.5	7901.7	8306.3	8296.2	7757.9	7891.6	9550.2
47.5°	8493.5	8416.6	8206.0	8182.5	8537.0	8533.7	9262.6	9262.6	8550.4	8644.0	10416.3
50°	9075.4	8874.7	8784.5	8901.5	9082.1	9205.8	10239.1	10302.6	9329.5	9429.8	11549.9
52.5°	9757.5	9506.7	9279.3	9580.3	9901.3	9981.6	11205.4	11178.7	9928.1	10342.7	12877.4
55°	10322.6	10195.6	10038.4	10212.3	10737.3	10837.6	12175.2	11927.7	10526.6	11098.4	13516.1
57.5°	10981.4	11058.3	11091.7	11048.3	11673.6	11830.8	13282.0	12573.1	11041.6	11606.7	13890.6
60°	11974.5	12021.4	12064.8	12168.5	12830.6	13051.3	14158.1	13382.3	11365.9	11901.0	13920.7
62.5°	13486.0	13305.4	13402.4	13760.2	14291.9	14542.7	15448.9	13950.8	11613.4	12078.2	12937.6
65°	15214.8	14970.7	14870.4	15331.8	16709.5	16508.9	17060.6	14375.5	11255.6	11416.1	10971.4
67.5°	16967.0	16993.7	16736.3	17662.5	19351.2	19351.2	18558.7	14579.4	10285.9	9252.6	7694.3
70°	18358.1	18441.7	18582.1	20377.8	23052.9	23457.5	20414.6	13743.5	8309.6	6159.5	4206.6
72.5°	18338.0	18087.2	18806.1	22113.3	26416.9	26079.1	20802.5	10867.7	5186.4	3016.2	1929.4
73°	17926.7	17716.0	18501.9	22096.6	26554.0	26236.3	20518.2	10018.4	4574.5	2614.9	1715.4
75°	14639.6	14258.4	15596.0	20013.3	24567.7	24811.8	17431.8	6534.0	2507.9	1611.8	1207.2
77.5°	6674.4	6841.6	8583.8	13425.8	18933.2	19220.8	11459.6	2825.6	1374.3	1130.2	889.5
80°	2143.4	2250.5	3340.6	6674.4	11867.5	12385.8	5296.8	1284.1	979.8	866.1	665.4
82.5°	819.3	815.9	1401.1	2775.4	5624.5	5955.5	1936.1	782.5	729.0	638.7	471.5
85°	287.6	301.0	528.3	1096.8	2213.7	2317.3	672.1	434.7	504.9	428.0	270.9
87.5°	100.3	103.7	187.3	397.9	762.4	805.9	187.3	173.9	250.8	247.4	137.1
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: P478142
 CATALOG NUMBER: IFLD-L-SA7A-735-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3	4534.3
2.5°	4581.2	4611.3	4621.3	4741.7	4741.7	4741.7	4788.5	4788.5	4775.1	4741.7	4821.9
5°	4601.2	4654.7	4758.4	4862.0	4888.8	4912.2	4975.7	4922.2	4942.3	4908.9	4939.0
7.5°	4658.1	4731.6	4925.6	4989.1	4945.6	4995.8	4928.9	4892.1	4855.4	4868.7	4821.9
10°	4755.0	4848.7	4939.0	5056.0	4972.4	4922.2	4785.1	4751.7	4634.7	4594.5	4631.3
12.5°	4875.4	4989.1	5142.9	5099.5	4939.0	4795.2	4648.0	4507.6	4437.4	4337.1	4363.8
15°	4995.8	5126.2	5149.6	5076.1	4875.4	4694.8	4427.3	4230.0	4159.8	4069.5	4116.4
17.5°	5126.2	5249.9	5209.8	5019.2	4748.4	4474.2	4169.9	3975.9	3828.8	3771.9	3771.9
20°	5320.2	5380.4	5316.8	4925.6	4594.5	4233.4	3939.1	3718.4	3571.3	3547.9	3511.1
22.5°	5470.6	5567.6	5283.4	4788.5	4370.5	3919.1	3581.3	3497.7	3454.3	3417.5	3370.7
25°	5664.6	5661.2	5223.2	4661.4	3985.9	3544.5	3340.6	3333.9	3313.8	3300.4	3364.0
27.5°	5848.5	5771.6	5153.0	4347.1	3588.0	3260.3	3150.0	3223.5	3253.6	3233.6	3260.3
30°	6139.4	6012.3	5052.6	4012.7	3236.9	2972.7	2992.8	3093.1	3143.3	3173.4	3133.2
32.5°	6447.1	6253.1	4845.3	3664.9	2925.9	2792.2	2839.0	2942.6	3002.8	3036.3	3073.1
35°	6891.8	6440.4	4634.7	3210.2	2701.9	2681.8	2708.6	2765.4	2852.4	2875.8	2885.8
37.5°	7440.2	6724.6	4350.4	2845.7	2528.0	2551.4	2578.2	2598.2	2601.6	2645.0	2628.3
40°	7988.6	6965.4	3935.8	2497.9	2347.4	2474.5	2461.1	2424.3	2394.2	2354.1	2344.1
42.5°	8470.1	7176.0	3474.3	2203.6	2186.9	2394.2	2350.8	2257.1	2186.9	2156.8	2106.7
45°	9011.8	7473.6	3009.5	2019.7	2063.2	2297.3	2283.9	2140.1	2049.8	1942.8	1929.4
47.5°	9714.1	7784.6	2564.8	1829.1	1946.2	2260.5	2267.2	2083.3	1952.8	1809.1	1789.0
50°	10613.6	8232.7	2227.0	1748.9	1875.9	2207.0	2217.0	2006.3	1835.8	1688.7	1675.3
52.5°	11476.3	8690.8	1946.2	1625.1	1829.1	2143.4	2166.9	1936.1	1738.8	1554.9	1564.9
55°	11911.0	8523.6	1705.4	1534.9	1722.1	2039.8	2126.7	1886.0	1591.7	1464.6	1461.3
57.5°	12008.0	8112.3	1514.8	1441.2	1631.8	1929.4	2059.8	1735.5	1524.8	1417.8	1404.4
60°	11690.3	7393.4	1364.3	1340.9	1518.1	1815.7	1906.0	1655.2	1457.9	1371.0	1350.9
62.5°	10907.8	6647.7	1260.7	1294.1	1421.2	1692.0	1809.1	1598.4	1394.4	1334.2	1290.7
65°	8945.0	5467.3	1177.1	1203.8	1320.8	1571.6	1748.9	1534.9	1337.6	1280.7	1277.4
67.5°	6196.3	3768.6	1110.2	1160.3	1240.6	1484.7	1688.7	1464.6	1264.0	1243.9	1217.2
70°	3173.4	2009.7	1023.2	1063.4	1153.6	1374.3	1581.7	1391.1	1187.1	1183.7	1150.3
72.5°	1608.4	1177.1	922.9	983.1	1046.6	1230.6	1447.9	1294.1	1090.1	1053.3	999.8
73°	1391.1	1090.1	906.2	959.7	1019.9	1190.4	1407.8	1270.7	1076.7	1023.2	973.1
75°	1013.2	859.4	812.6	866.1	912.9	1073.4	1274.0	1163.7	989.8	933.0	886.1
77.5°	759.1	662.1	675.5	735.7	775.8	926.3	1133.6	1053.3	896.2	819.3	799.2
80°	558.4	504.9	558.4	615.3	645.4	815.9	1033.3	912.9	755.7	668.8	652.1
82.5°	397.9	367.8	431.4	468.1	481.5	675.5	929.6	729.0	571.8	458.1	421.3
85°	227.4	224.0	290.9	287.6	297.6	394.6	611.9	484.9	367.8	280.9	274.2
87.5°	100.3	110.3	147.1	117.0	123.7	187.3	260.8	180.6	150.5	83.6	63.5
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)