

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: P478148

Luminaire Tested: **IFLD-L-SA8B-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478148
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

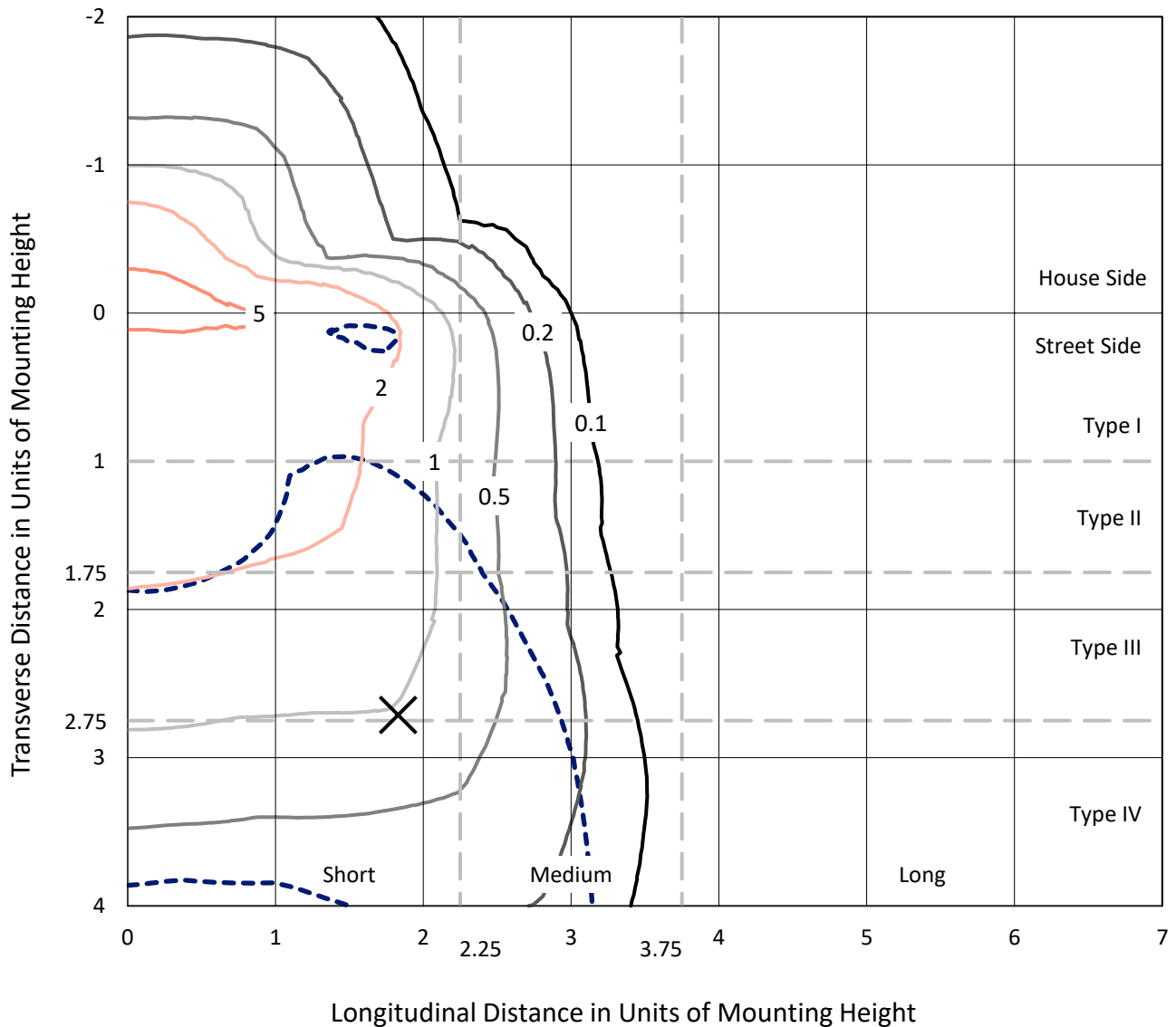
Lumens per Lamp: N/A
Luminaire Lumens: 41124.2 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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: P478148
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

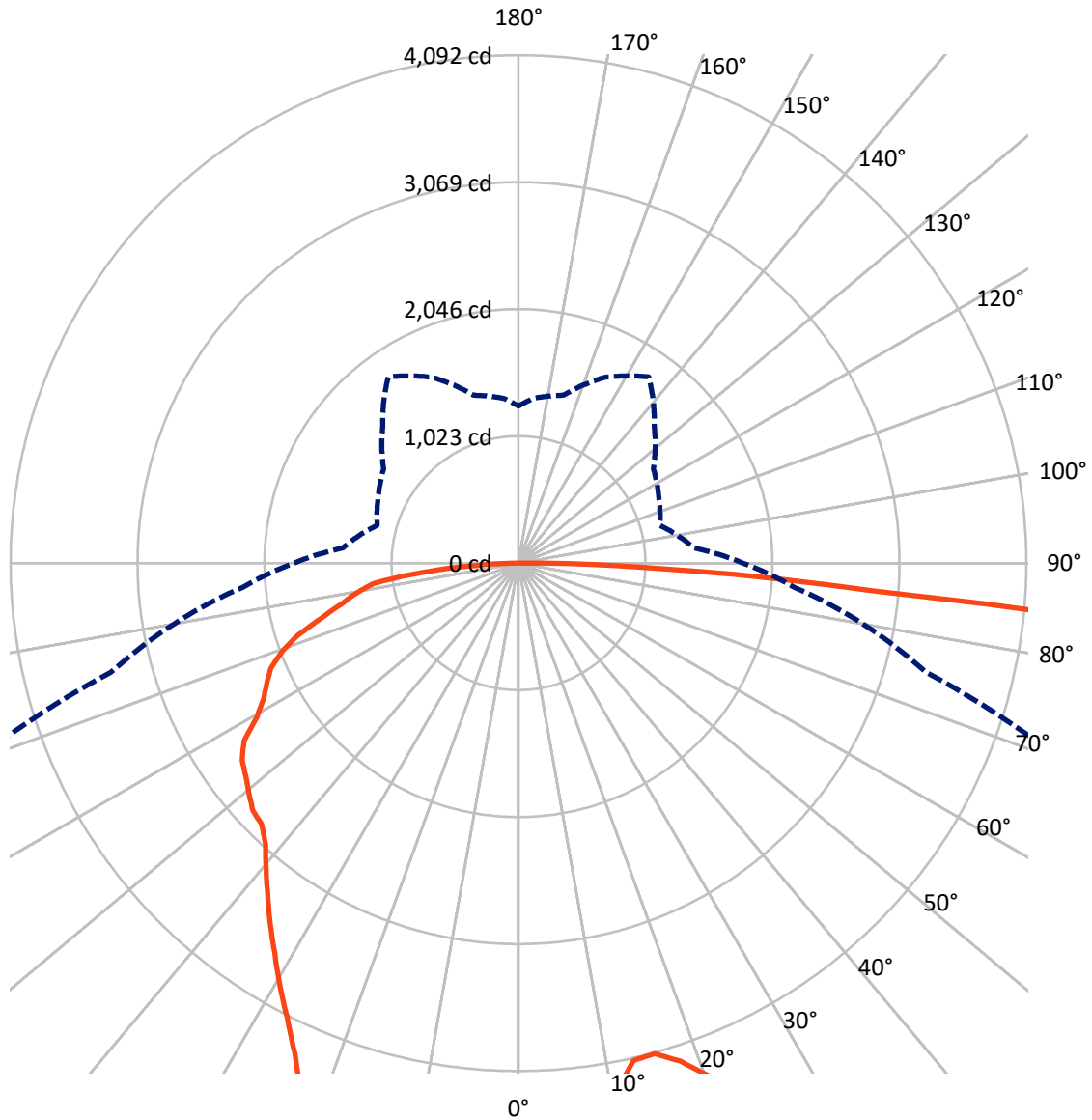
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P478148
CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478148
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT

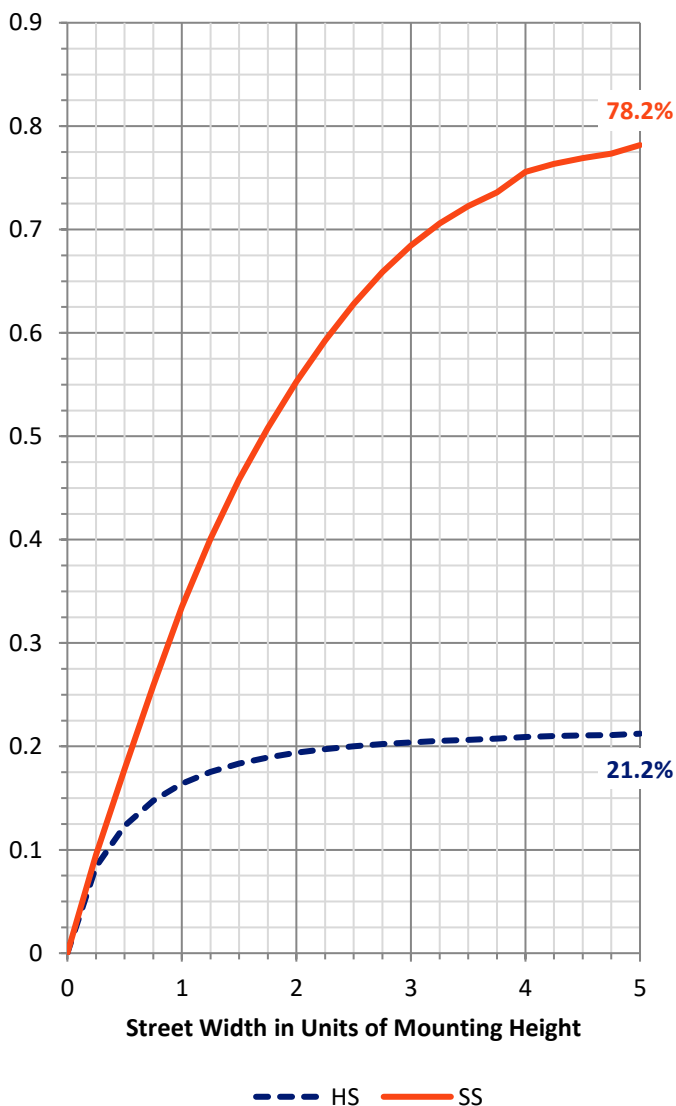
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8883.3	0.0	8883.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	32240.9	0.0	32240.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	41124.2	0.0	41124.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.2	1.3
10°-20°	1522.9	3.7
20°-30°	2506.4	6.1
30°-40°	3748.3	9.1
40°-50°	5556.7	13.5
50°-60°	8007.8	19.5
60°-70°	10219.0	24.8
70°-80°	7952.1	19.3
80°-90°	1066.8	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°	41124.2	100.0
0°-180°	41124.2	100.0



REPORT NUMBER: P478148

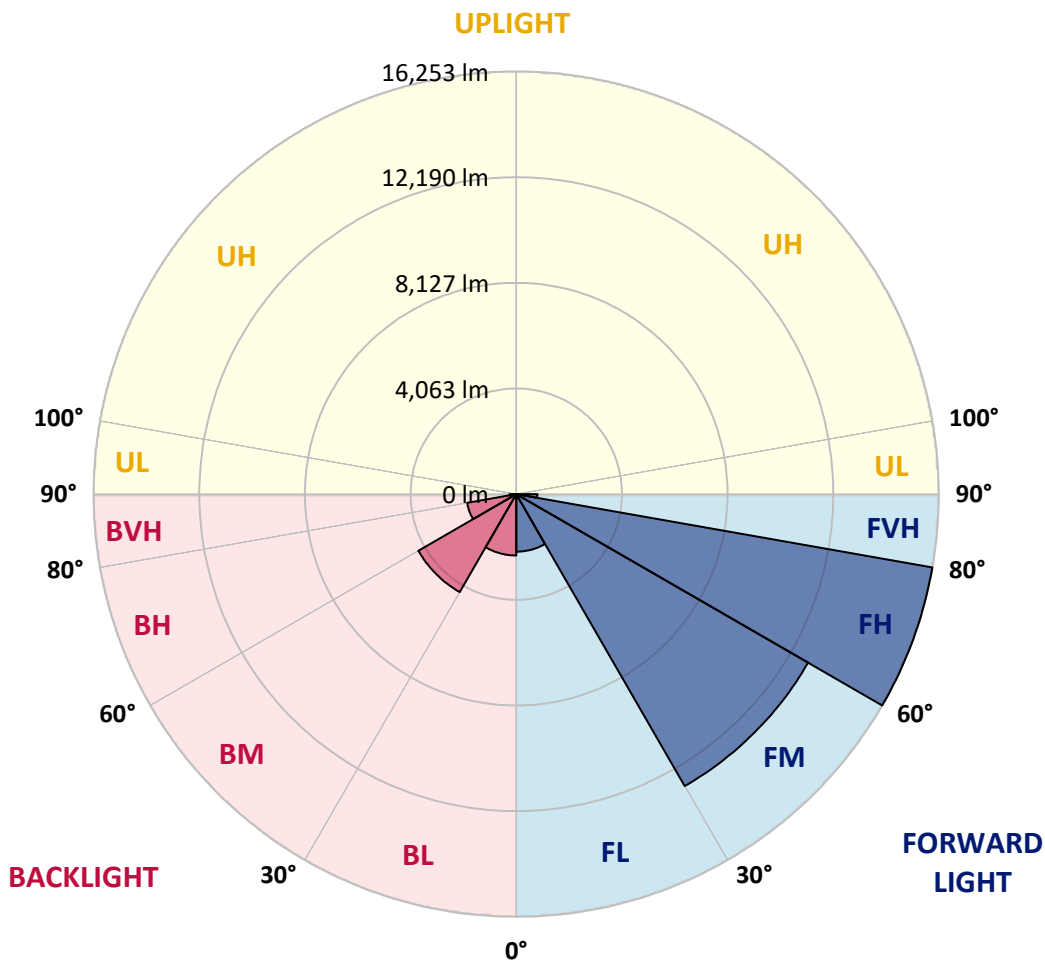
CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2213.2	5.4			
FM (30°-60°)	12962.6	31.5			
FH (60°-80°)	16253.0	39.5			G5
FVH (80°-90°)	812.0	2.0			G5
BL (0°-30°)	2360.2	5.7	B3/2500		
BM (30°-60°)	4350.2	10.6	B3/5000		
BH (60°-80°)	1918.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	254.8	0.6			G3/500
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: P478148
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8
2.5°	5282.7	5300.1	5356.7	5369.7	5430.6	5395.8	5469.7	5600.1	5674.1	5782.8	5913.2
5°	4865.3	4791.4	4826.2	4961.0	5030.6	5048.0	5126.2	5348.0	5487.1	5648.0	5891.5
7.5°	4374.0	4361.0	4430.5	4517.5	4656.6	4669.7	4843.6	5039.3	5326.2	5682.8	5969.7
10°	4039.2	4095.8	4134.9	4226.2	4321.8	4321.8	4543.6	4882.7	5208.8	5552.3	5987.1
12.5°	4021.8	3987.1	3995.8	4043.6	4113.1	4200.1	4408.8	4713.2	5126.2	5526.2	6061.0
15°	4078.4	4091.4	4013.1	4074.0	4100.1	4130.5	4361.0	4704.5	5074.0	5617.5	6187.1
17.5°	4378.4	4304.5	4182.7	4126.2	4217.5	4217.5	4374.0	4643.6	5082.7	5665.4	6369.7
20°	4613.2	4613.2	4413.2	4352.3	4417.5	4404.5	4513.2	4713.2	5126.2	5761.0	6574.1
22.5°	5008.8	5065.3	4734.9	4608.8	4604.5	4639.2	4734.9	4904.5	5248.0	5895.8	6769.7
25°	5578.4	5591.4	5208.8	5078.4	4939.3	4995.8	5013.2	5182.7	5356.7	6052.3	6991.5
27.5°	6213.2	6204.5	5852.3	5526.2	5434.9	5448.0	5352.3	5465.4	5517.5	6100.2	7308.9
30°	6917.6	6839.3	6574.1	6113.2	6039.3	5956.7	5748.0	5743.6	5852.3	6369.7	7748.0
32.5°	7378.4	7278.4	7095.8	6765.4	6561.0	6569.7	6239.3	6234.9	6139.3	6665.4	8130.6
35°	7830.6	7678.5	7630.6	7291.5	7087.1	7108.9	6843.7	6808.9	6635.0	7113.2	8761.1
37.5°	8374.1	8239.3	8313.3	8056.7	7804.5	7700.2	7578.5	7535.0	7308.9	7743.7	9622.0
40°	8974.1	8930.7	8882.8	8756.7	8604.6	8613.3	8482.8	8439.3	8104.6	8504.6	10448.1
42.5°	9782.9	9617.6	9369.8	9452.4	9530.7	9613.3	9569.8	9456.8	9108.9	9278.5	11369.9
45°	10535.1	10317.7	9861.1	9887.2	10209.0	10274.2	10800.3	10787.2	10087.2	10261.1	12417.7
47.5°	11043.8	10943.8	10669.8	10639.4	11100.3	11095.9	12043.8	12043.8	11117.7	11239.4	13543.8
50°	11800.3	11539.4	11422.0	11574.2	11809.0	11969.9	13313.4	13396.0	12130.7	12261.2	15017.8
52.5°	12687.3	12361.2	12065.5	12456.8	12874.2	12978.6	14569.9	14535.2	12909.0	13448.2	16743.9
55°	13422.1	13256.9	13052.5	13278.6	13961.2	14091.7	15830.8	15509.1	13687.3	14430.8	17574.4
57.5°	14278.6	14378.6	14422.1	14365.6	15178.6	15383.0	17270.0	16348.2	14356.9	15091.7	18061.3
60°	15570.0	15630.8	15687.4	15822.1	16683.0	16970.0	18409.2	17400.4	14778.6	15474.3	18100.5
62.5°	17535.2	17300.4	17426.5	17891.8	18583.1	18909.2	20087.5	18139.6	15100.4	15704.7	16822.2
65°	19783.1	19465.7	19335.3	19935.3	21726.6	21465.8	22183.2	18691.8	14635.2	14843.9	14265.6
67.5°	22061.4	22096.2	21761.4	22965.8	25161.5	25161.5	24131.1	18957.0	13374.3	12030.7	10004.6
70°	23870.2	23978.9	24161.5	26496.3	29974.7	30500.8	26544.2	17870.0	10804.6	8008.9	5469.7
72.5°	23844.1	23518.0	24452.8	28752.9	34348.7	33909.6	27048.5	14130.8	6743.7	3921.8	2508.8
73°	23309.3	23035.4	24057.1	28731.2	34527.0	34113.9	26678.9	13026.4	5948.0	3400.1	2230.5
75°	19035.3	18539.6	20278.8	26022.4	31944.3	32261.7	22665.8	8495.9	3261.0	2095.7	1569.6
77.5°	8678.5	8895.9	11161.2	17457.0	24618.0	24991.9	14900.4	3674.0	1787.0	1469.6	1156.6
80°	2787.0	2926.2	4343.6	8678.5	15430.8	16104.8	6887.1	1669.6	1273.9	1126.1	865.2
82.5°	1065.2	1060.9	1821.8	3608.8	7313.2	7743.7	2517.5	1017.4	947.9	830.5	613.1
85°	373.9	391.3	687.0	1426.1	2878.3	3013.1	873.9	565.2	656.5	556.5	352.2
87.5°	130.4	134.8	243.5	517.4	991.3	1047.9	243.5	226.1	326.1	321.7	178.3
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: P478148
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8	5895.8
2.5°	5956.7	5995.8	6008.8	6165.4	6165.4	6165.4	6226.2	6226.2	6208.9	6165.4	6269.7
5°	5982.8	6052.3	6187.1	6321.9	6356.7	6387.1	6469.7	6400.2	6426.3	6382.8	6421.9
7.5°	6056.7	6152.3	6404.5	6487.1	6430.6	6495.8	6408.9	6361.0	6313.2	6330.6	6269.7
10°	6182.8	6304.5	6421.9	6574.1	6465.4	6400.2	6221.9	6178.4	6026.2	5974.1	6021.9
12.5°	6339.3	6487.1	6687.1	6630.6	6421.9	6234.9	6043.6	5861.0	5769.7	5639.3	5674.1
15°	6495.8	6665.4	6695.8	6600.2	6339.3	6104.5	5756.7	5500.1	5408.8	5291.4	5352.3
17.5°	6665.4	6826.3	6774.1	6526.3	6174.1	5817.5	5421.9	5169.7	4978.4	4904.5	4904.5
20°	6917.6	6995.8	6913.2	6404.5	5974.1	5504.5	5121.9	4834.9	4643.6	4613.2	4565.3
22.5°	7113.2	7239.3	6869.7	6226.2	5682.8	5095.8	4656.6	4547.9	4491.4	4443.6	4382.7
25°	7365.4	7361.1	6791.5	6061.0	5182.7	4608.8	4343.6	4334.9	4308.8	4291.4	4374.0
27.5°	7604.5	7504.5	6700.2	5652.3	4665.3	4239.2	4095.8	4191.4	4230.5	4204.5	4239.2
30°	7982.8	7817.6	6569.7	5217.5	4208.8	3865.3	3891.4	4021.8	4087.1	4126.2	4074.0
32.5°	8382.8	8130.6	6300.2	4765.3	3804.4	3630.5	3691.4	3826.2	3904.4	3947.9	3995.8
35°	8961.1	8374.1	6026.2	4174.0	3513.1	3487.0	3521.8	3595.7	3708.8	3739.2	3752.3
37.5°	9674.2	8743.7	5656.7	3700.1	3287.0	3317.5	3352.3	3378.3	3382.7	3439.2	3417.5
40°	10387.2	9056.8	5117.5	3247.9	3052.3	3217.5	3200.1	3152.3	3113.1	3060.9	3047.9
42.5°	11013.3	9330.7	4517.5	2865.3	2843.6	3113.1	3056.6	2934.9	2843.6	2804.4	2739.2
45°	11717.7	9717.6	3913.1	2626.2	2682.7	2987.0	2969.6	2782.7	2665.3	2526.2	2508.8
47.5°	12630.8	10122.0	3334.9	2378.3	2530.5	2939.2	2947.9	2708.8	2539.2	2352.2	2326.1
50°	13800.4	10704.6	2895.7	2274.0	2439.2	2869.6	2882.7	2608.8	2387.0	2195.7	2178.3
52.5°	14922.1	11300.3	2530.5	2113.1	2378.3	2787.0	2817.5	2517.5	2260.9	2021.8	2034.8
55°	15487.4	11082.9	2217.4	1995.7	2239.2	2652.2	2765.3	2452.2	2069.6	1904.4	1900.0
57.5°	15613.4	10548.1	1969.6	1874.0	2121.8	2508.8	2678.3	2256.6	1982.7	1843.5	1826.1
60°	15200.4	9613.3	1774.0	1743.5	1974.0	2360.9	2478.3	2152.2	1895.7	1782.7	1756.6
62.5°	14183.0	8643.7	1639.2	1682.7	1847.9	2200.1	2352.2	2078.3	1813.1	1734.8	1678.3
65°	11630.7	7108.9	1530.5	1565.3	1717.4	2043.5	2274.0	1995.7	1739.2	1665.3	1660.9
67.5°	8056.7	4900.1	1443.5	1508.7	1613.1	1930.5	2195.7	1904.4	1643.5	1617.4	1582.6
70°	4126.2	2613.1	1330.5	1382.6	1500.0	1787.0	2056.6	1808.7	1543.5	1539.2	1495.7
72.5°	2091.4	1530.5	1200.0	1278.3	1360.9	1600.0	1882.7	1682.7	1417.4	1369.6	1300.0
73°	1808.7	1417.4	1178.3	1247.9	1326.1	1547.9	1830.5	1652.2	1400.0	1330.5	1265.2
75°	1317.4	1117.4	1056.5	1126.1	1187.0	1395.7	1656.6	1513.1	1287.0	1213.1	1152.2
77.5°	987.0	860.9	878.3	956.5	1008.7	1204.4	1474.0	1369.6	1165.2	1065.2	1039.2
80°	726.1	656.5	726.1	800.0	839.2	1060.9	1343.5	1187.0	982.6	869.6	847.8
82.5°	517.4	478.3	560.9	608.7	626.1	878.3	1208.7	947.9	743.5	595.7	547.8
85°	295.7	291.3	378.3	373.9	387.0	513.1	795.7	630.5	478.3	365.2	356.5
87.5°	130.4	143.5	191.3	152.2	160.9	243.5	339.1	234.8	195.7	108.7	82.6
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)