

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: P478453

Luminaire Tested: **IFLD-M-SA4E-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478453
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

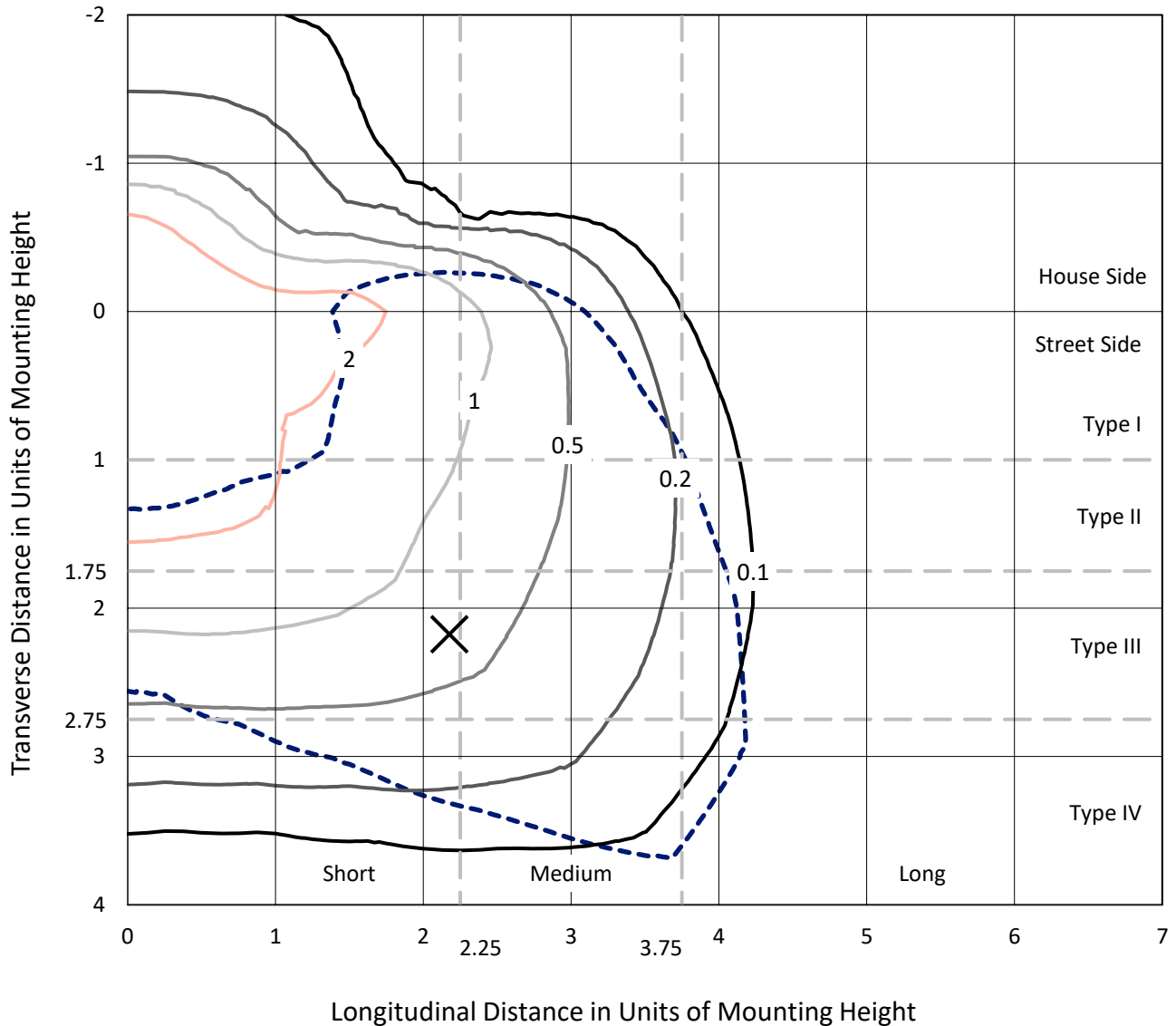
Lumens per Lamp: N/A
Luminaire Lumens: 30604.3 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (A_{in}): 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

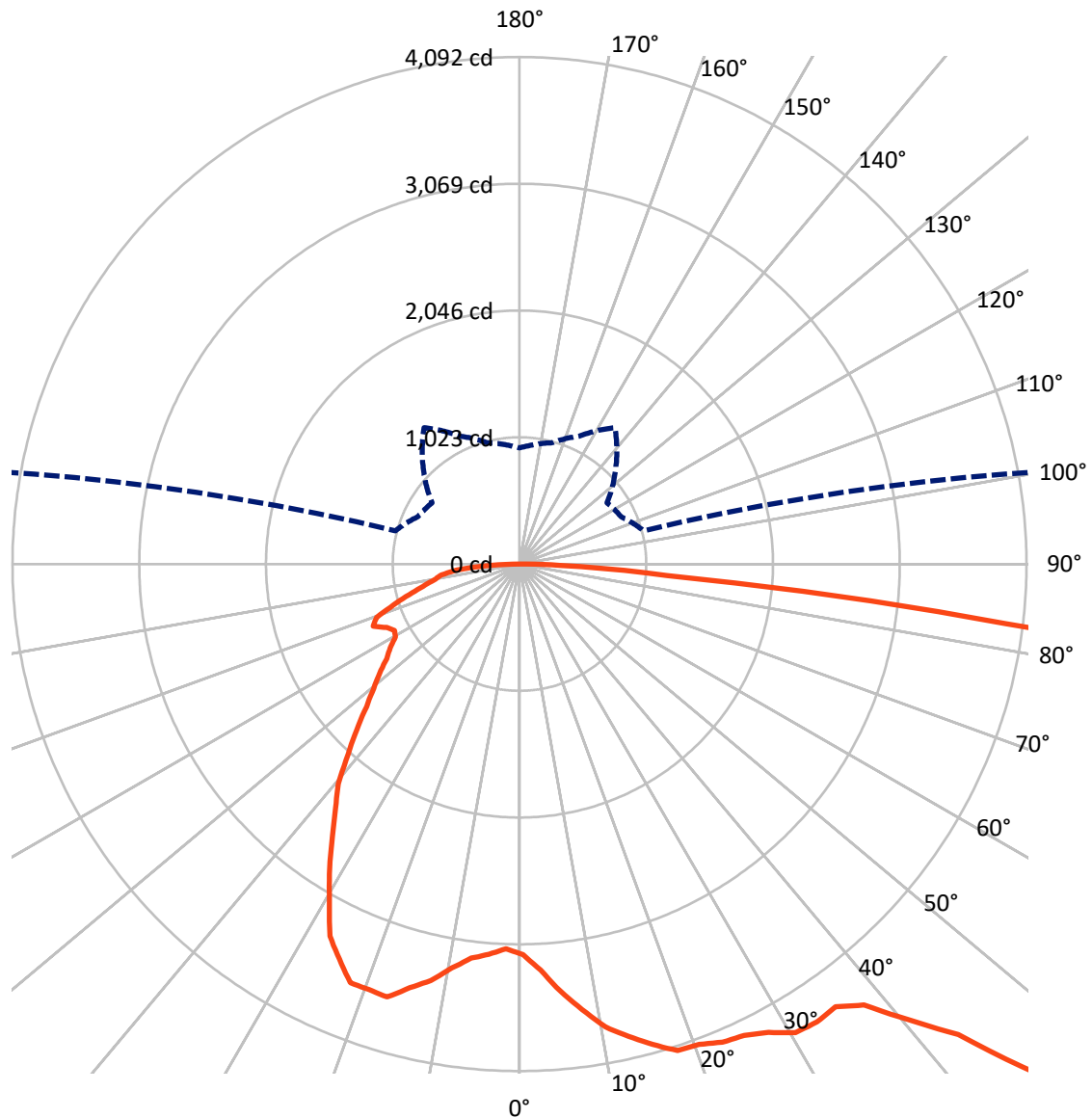
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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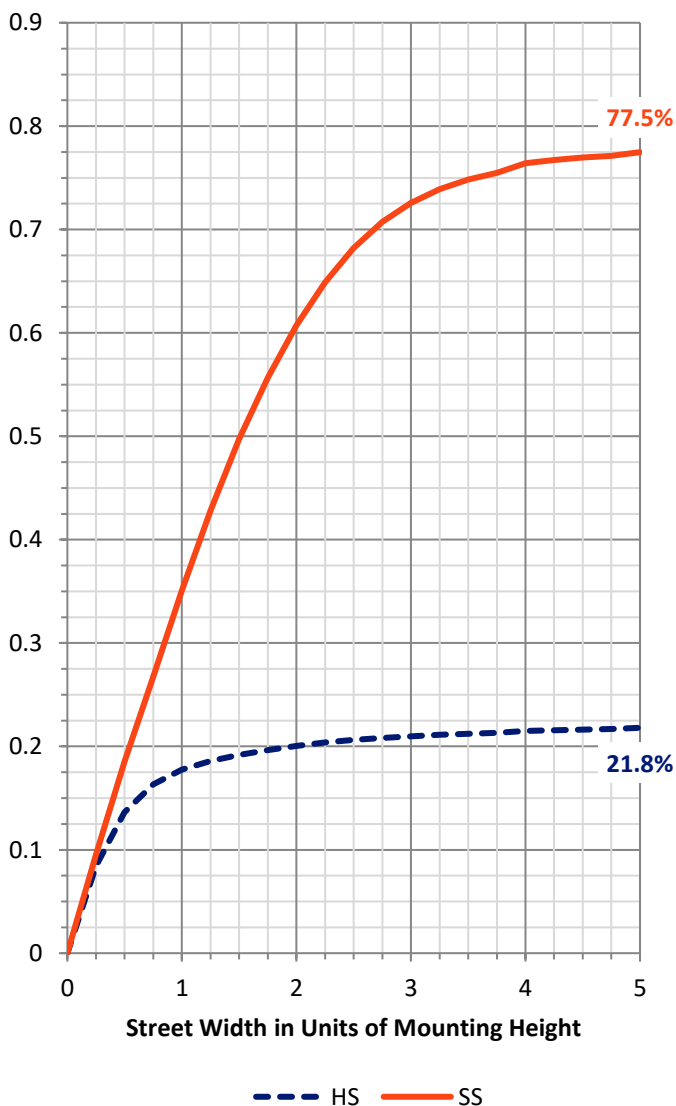
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6812.7	0.0	6812.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	23791.6	0.0	23791.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	30604.3	0.0	30604.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.5	1.1
10°-20°	1073.0	3.5
20°-30°	1812.0	5.9
30°-40°	2507.5	8.2
40°-50°	3586.7	11.7
50°-60°	5785.0	18.9
60°-70°	8532.1	27.9
70°-80°	6195.7	20.2
80°-90°	789.8	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°	30604.3	100.0
0°-180°	30604.3	100.0

Coefficient of Utilization

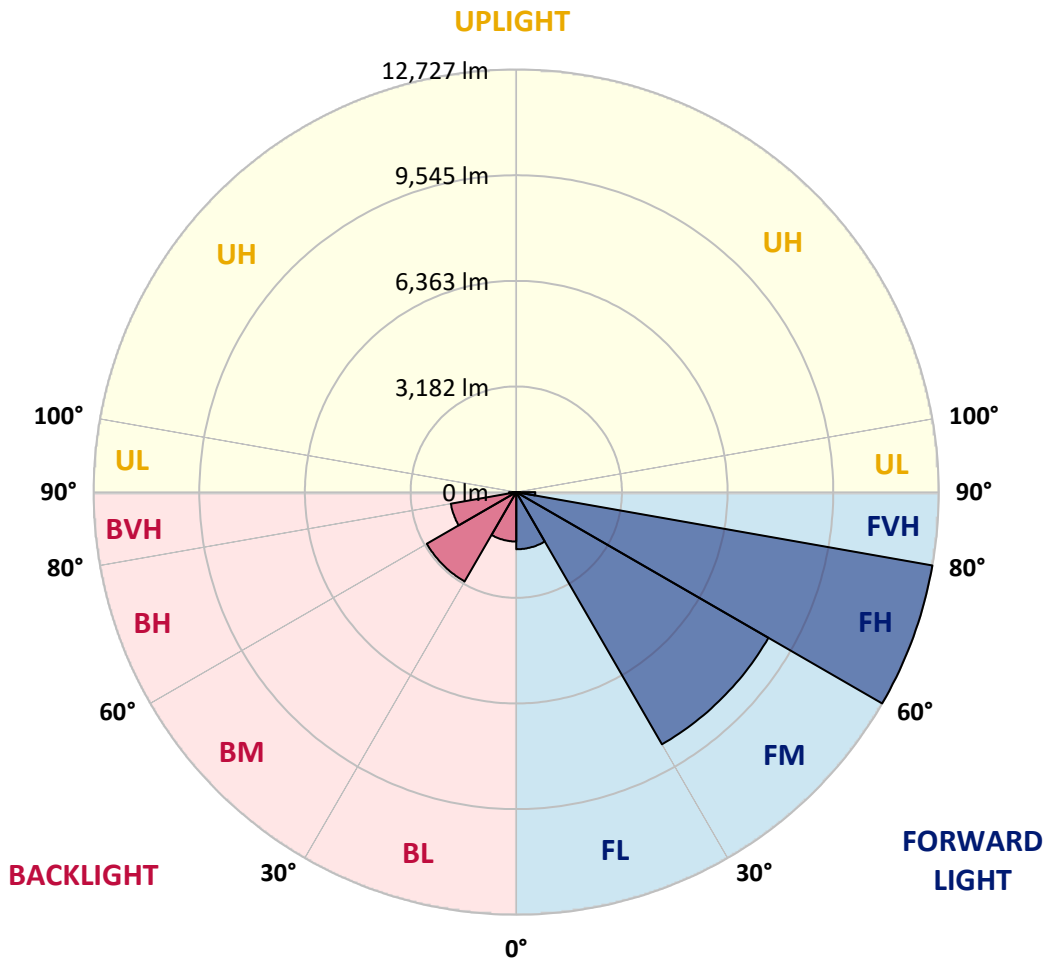


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1720.0	5.6			
FM (30°-60°)	8770.1	28.7			
FH (60°-80°)	12726.6	41.6			G5
FVH (80°-90°)	574.9	1.9			G4/750
BL (0°-30°)	1487.5	4.9	B3/2500		
BM (30°-60°)	3109.1	10.2	B3/5000		
BH (60°-80°)	2001.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	214.9	0.7			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7
2.5°	3320.0	3339.8	3320.0	3316.7	3283.7	3260.6	3280.4	3250.7	3217.7	3204.5	3174.8
5°	3623.6	3626.9	3590.6	3593.9	3524.6	3452.0	3465.2	3376.1	3280.4	3244.1	3184.7
7.5°	3933.8	3897.5	3844.7	3828.2	3719.3	3640.1	3630.2	3551.0	3402.5	3320.0	3237.5
10°	4135.1	4148.3	4062.5	3989.9	3897.5	3801.8	3798.5	3650.0	3564.2	3442.1	3336.5
12.5°	4313.4	4316.7	4244.1	4128.5	4013.0	3894.2	3910.7	3844.7	3699.5	3584.0	3478.4
15°	4452.0	4432.2	4353.0	4247.4	4125.2	4032.8	4022.9	3966.8	3844.7	3749.0	3574.1
17.5°	4491.6	4481.7	4402.5	4290.3	4171.4	4102.1	4128.5	4036.1	3986.6	3900.8	3732.5
20°	4415.7	4392.6	4379.4	4254.0	4168.1	4161.5	4138.4	4158.2	4075.7	3996.5	3874.4
22.5°	4277.1	4267.2	4260.6	4161.5	4121.9	4151.6	4191.2	4221.0	4207.8	4131.8	3993.2
25°	4135.1	4181.3	4138.4	4092.2	4148.3	4224.3	4214.4	4310.1	4310.1	4287.0	4171.4
27.5°	4234.2	4204.5	4171.4	4148.3	4168.1	4287.0	4280.4	4395.9	4438.8	4395.9	4263.9
30°	4481.7	4452.0	4356.3	4254.0	4227.6	4356.3	4389.3	4491.6	4511.4	4405.8	4293.6
32.5°	4947.0	4930.5	4778.7	4478.4	4316.7	4389.3	4405.8	4521.3	4504.8	4438.8	4392.6
35°	5636.7	5580.6	5369.4	4861.2	4504.8	4432.2	4389.3	4481.7	4544.4	4511.4	4468.5
37.5°	6392.5	6329.8	6069.1	5425.5	4844.7	4547.7	4514.7	4590.6	4663.2	4646.7	4557.6
40°	7115.2	7115.2	6880.9	6131.8	5349.6	4828.2	4834.8	4749.0	4815.0	4785.3	4801.8
42.5°	7828.1	7801.7	7706.0	6960.1	5890.9	5296.8	5191.2	4976.7	5095.5	5085.6	5108.7
45°	8550.8	8531.0	8504.6	7732.4	6666.4	5930.5	5874.3	5488.2	5597.1	5550.9	5649.9
47.5°	9128.3	9151.4	9151.4	8593.7	7494.7	6775.3	6692.8	6082.3	6290.2	6313.3	6336.4
50°	9620.1	9630.0	9620.1	9415.5	8418.8	7742.3	7574.0	6953.5	7161.4	7342.9	7554.1
52.5°	10299.9	10313.1	10266.9	10187.7	9672.9	8758.7	8570.6	7880.9	8306.6	8498.0	8877.5
55°	11138.2	11039.2	10953.4	11012.8	10877.4	9877.5	9682.8	8837.9	9478.2	9732.3	10491.3
57.5°	11293.3	11379.1	11596.9	12068.8	12263.5	10966.6	10854.3	10012.8	10801.5	11022.7	12289.9
60°	11841.1	11699.2	12233.8	13256.9	13474.7	12385.6	12270.1	11299.9	12118.3	12349.3	13949.9
62.5°	12200.8	12194.2	12986.3	14200.7	14695.8	13857.5	13623.2	12973.1	13540.7	13765.1	15758.4
65°	12095.2	12190.9	13596.8	14755.2	15715.5	15530.7	15395.4	14412.0	15161.1	15141.3	16936.6
67.5°	11131.6	11402.2	13210.7	15154.5	17233.6	17570.2	17527.3	16435.0	16477.9	16058.8	17461.3
70°	9795.0	9702.6	11577.1	14738.7	17992.7	19989.3	19979.4	17939.9	17662.7	16260.1	15956.4
72°	7524.4	7422.1	8963.3	12656.3	17593.3	20956.2	21253.3	18982.7	17649.5	15425.1	13181.0
72.5°	6831.4	6742.3	8276.9	11913.7	17151.1	21207.1	21068.5	19022.3	17510.8	15032.4	12313.0
75°	3145.1	3042.8	4135.1	7293.4	13379.0	18791.3	19263.2	17801.3	15293.1	11966.5	7375.9
77.5°	937.3	907.6	1330.0	2943.8	7775.3	13844.3	14025.8	13431.8	10676.1	6554.2	2735.9
80°	521.4	524.7	686.4	1102.3	3419.0	8003.0	8656.4	8296.7	5237.4	2164.9	910.9
82.5°	290.4	306.9	429.0	653.4	1570.9	3673.1	3953.6	3811.7	1894.3	1016.5	498.3
85°	151.8	158.4	224.4	349.8	891.1	1161.7	1194.7	1280.5	983.5	693.0	267.3
87.5°	59.4	59.4	82.5	145.2	330.0	359.7	323.4	392.7	564.3	448.8	132.0
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°	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7
2.5°	3201.2	3174.8	3171.5	3128.6	3141.8	3105.5	3108.8	3102.2	3105.5	3098.9	3082.4
5°	3184.7	3164.9	3108.8	3145.1	3112.1	3158.3	3194.6	3181.4	3191.3	3188.0	3191.3
7.5°	3207.8	3181.4	3174.8	3155.0	3184.7	3204.5	3234.2	3316.7	3310.1	3320.0	3339.8
10°	3277.1	3247.4	3227.6	3257.3	3240.8	3303.5	3336.5	3379.4	3455.3	3458.6	3419.0
12.5°	3412.4	3392.6	3353.0	3359.6	3415.7	3435.5	3455.3	3481.7	3531.2	3521.3	3557.6
15°	3567.5	3524.6	3501.5	3494.9	3508.1	3531.2	3527.9	3554.3	3580.7	3603.8	3593.9
17.5°	3679.7	3623.6	3630.2	3663.2	3659.9	3653.3	3610.4	3597.2	3610.4	3623.6	3617.0
20°	3795.2	3801.8	3752.3	3722.6	3709.4	3643.4	3610.4	3570.8	3531.2	3551.0	3580.7
22.5°	3940.4	3910.7	3838.1	3749.0	3683.0	3643.4	3541.1	3471.8	3471.8	3491.6	3481.7
25°	4105.4	4042.7	3917.3	3755.6	3673.1	3504.8	3432.2	3422.3	3395.9	3425.6	3438.8
27.5°	4234.2	4178.0	4006.4	3732.5	3504.8	3369.5	3326.6	3313.4	3356.3	3359.6	3412.4
30°	4287.0	4270.5	4019.6	3673.1	3333.2	3115.4	3089.0	3148.4	3194.6	3263.9	3267.2
32.5°	4356.3	4362.9	4039.4	3534.5	3108.8	2891.0	2851.4	2924.0	3056.0	3112.1	3155.0
35°	4471.8	4504.8	4022.9	3362.9	2871.2	2663.3	2656.7	2676.5	2805.2	2904.2	2960.3
37.5°	4673.1	4666.5	4019.6	3158.3	2683.1	2465.2	2412.4	2419.0	2504.8	2587.4	2577.5
40°	4943.7	4917.3	4009.7	2891.0	2438.8	2296.9	2207.8	2174.8	2168.2	2145.1	2151.7
42.5°	5313.3	5260.5	4006.4	2620.4	2217.7	2065.9	2003.2	1917.4	1854.7	1735.9	1742.5
45°	5828.1	5735.7	3920.6	2366.2	1999.9	1874.5	1778.8	1716.1	1580.8	1432.3	1432.3
47.5°	6623.5	6323.2	3923.9	2085.7	1788.7	1686.4	1620.4	1511.5	1366.3	1247.5	1234.3
50°	7795.1	7108.6	3811.7	1864.6	1617.1	1547.8	1478.5	1353.1	1214.5	1132.0	1141.9
52.5°	9306.6	8280.2	3808.4	1666.6	1481.8	1432.3	1356.4	1244.2	1141.9	1089.1	1069.3
55°	11108.5	9831.3	3927.2	1504.9	1343.2	1316.8	1283.8	1191.4	1092.4	1046.2	1042.9
57.5°	12953.3	11346.1	4118.6	1389.4	1224.4	1244.2	1221.1	1148.5	1069.3	1016.5	1009.9
60°	14593.5	12547.3	3732.5	1250.8	1118.8	1161.7	1194.7	1132.0	1089.1	1085.8	1062.7
62.5°	15831.0	13062.2	2838.2	1145.2	1062.7	1141.9	1231.0	1270.6	1250.8	1277.2	1280.5
65°	16283.2	12752.0	1953.7	1089.1	1019.8	1188.1	1386.1	1372.9	1257.4	1207.9	1234.3
67.5°	15649.5	11494.6	1448.8	1023.1	990.1	1283.8	1475.2	1310.2	1135.3	1128.7	1108.9
70°	13458.2	9742.2	1181.5	953.8	940.6	1231.0	1435.6	1214.5	1069.3	1026.4	1006.6
72°	10722.3	7587.2	1036.3	904.3	861.4	1099.0	1343.2	1138.6	1013.2	960.4	937.3
72.5°	9788.4	7032.7	1016.5	881.2	844.9	1069.3	1297.0	1115.5	1000.0	953.8	917.5
75°	5369.4	3600.5	894.4	808.5	712.8	924.1	1201.3	1046.2	943.9	877.9	871.3
77.5°	1996.6	1396.0	772.2	716.1	617.1	798.6	1092.4	993.4	858.1	775.5	759.0
80°	765.6	735.9	630.3	603.9	518.1	699.6	1006.6	891.1	729.3	646.8	620.4
82.5°	465.3	429.0	478.5	471.9	396.0	636.9	947.2	834.9	646.8	524.7	508.2
85°	254.1	254.1	333.3	320.1	277.2	508.2	716.1	554.4	409.2	336.6	343.2
87.5°	112.2	132.0	178.2	168.3	151.8	287.1	349.8	293.7	204.6	138.6	148.5
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)