

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: P478523

Luminaire Tested: **IFLD-S-SA6B-735-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478523  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-735-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

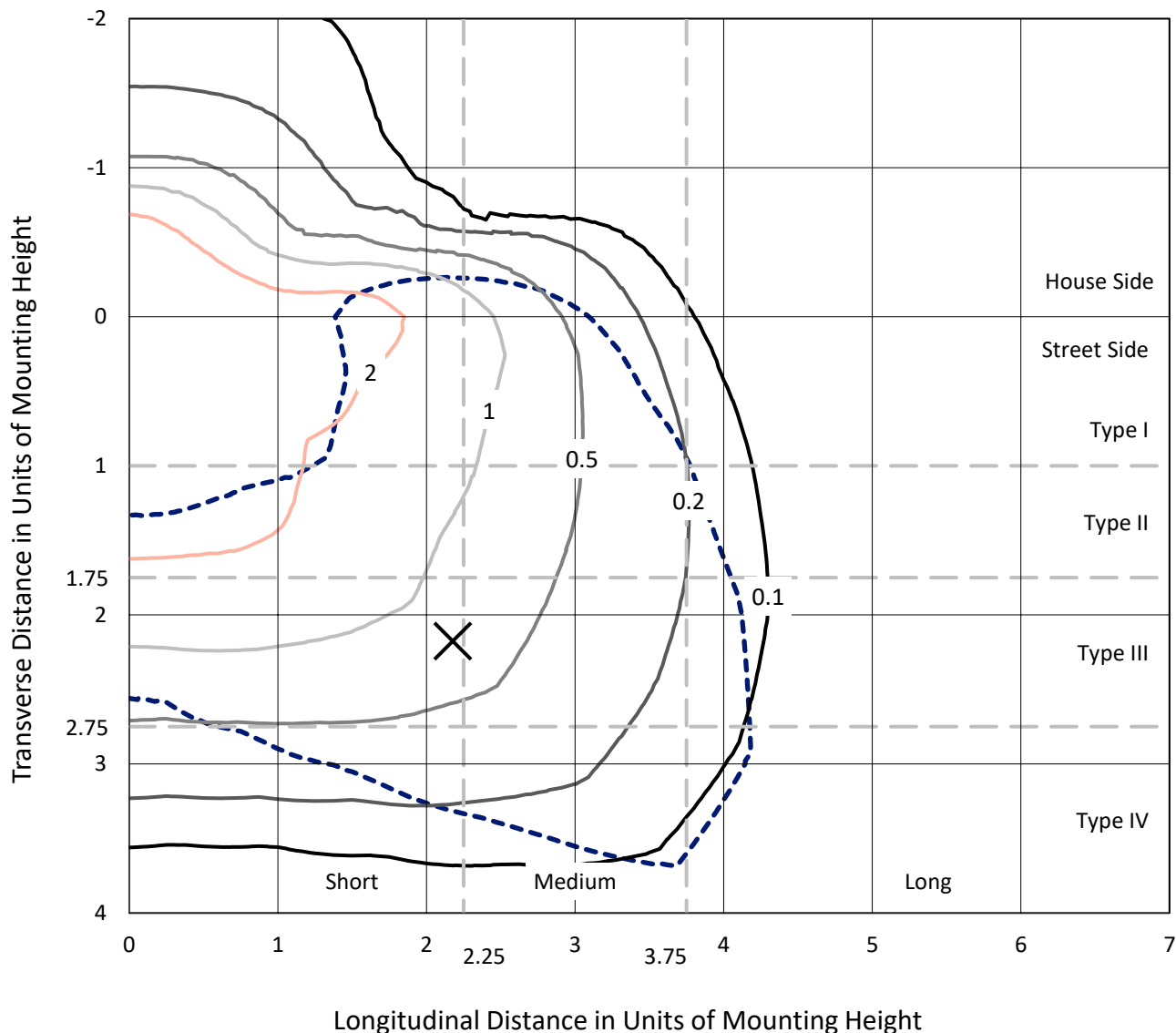
Lumens per Lamp: N/A  
Luminaire Lumens: 33277.3 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 244.9  
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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 CATALOG NUMBER: IFLD-S-SA6B-735-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

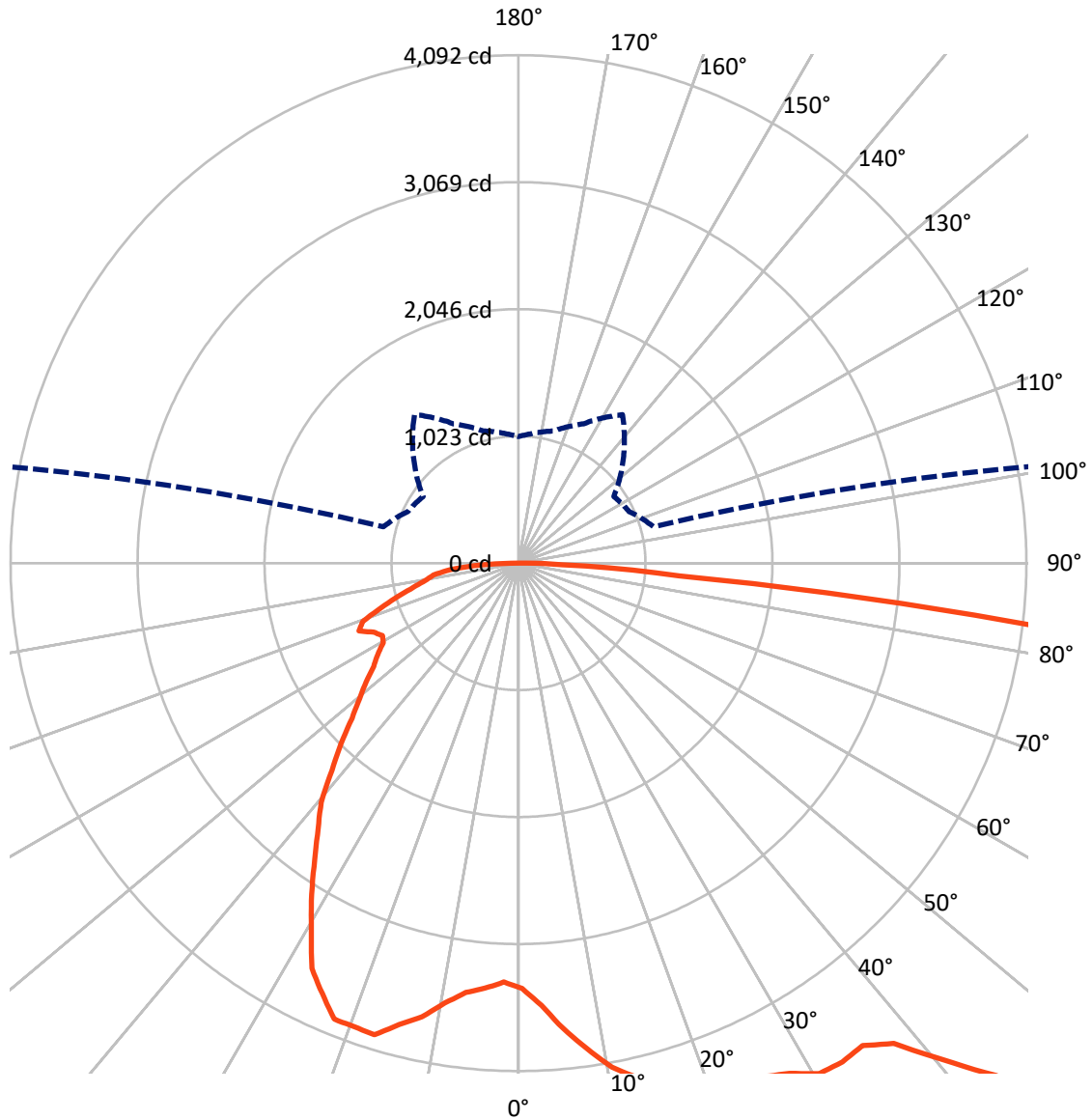
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478523  
CATALOG NUMBER: IFLD-S-SA6B-735-U-T4W

### 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
<b>House Side</b>	Lumens	7407.7	0.0	7407.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	25869.6	0.0	25869.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	33277.3	0.0	33277.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.7	1.1
10°-20°	1166.7	3.5
20°-30°	1970.2	5.9
30°-40°	2726.5	8.2
40°-50°	3900.0	11.7
50°-60°	6290.3	18.9
60°-70°	9277.2	27.9
70°-80°	6736.9	20.2
80°-90°	858.8	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°	33277.3	100.0
0°-180°	33277.3	100.0

**Coefficient of Utilization**



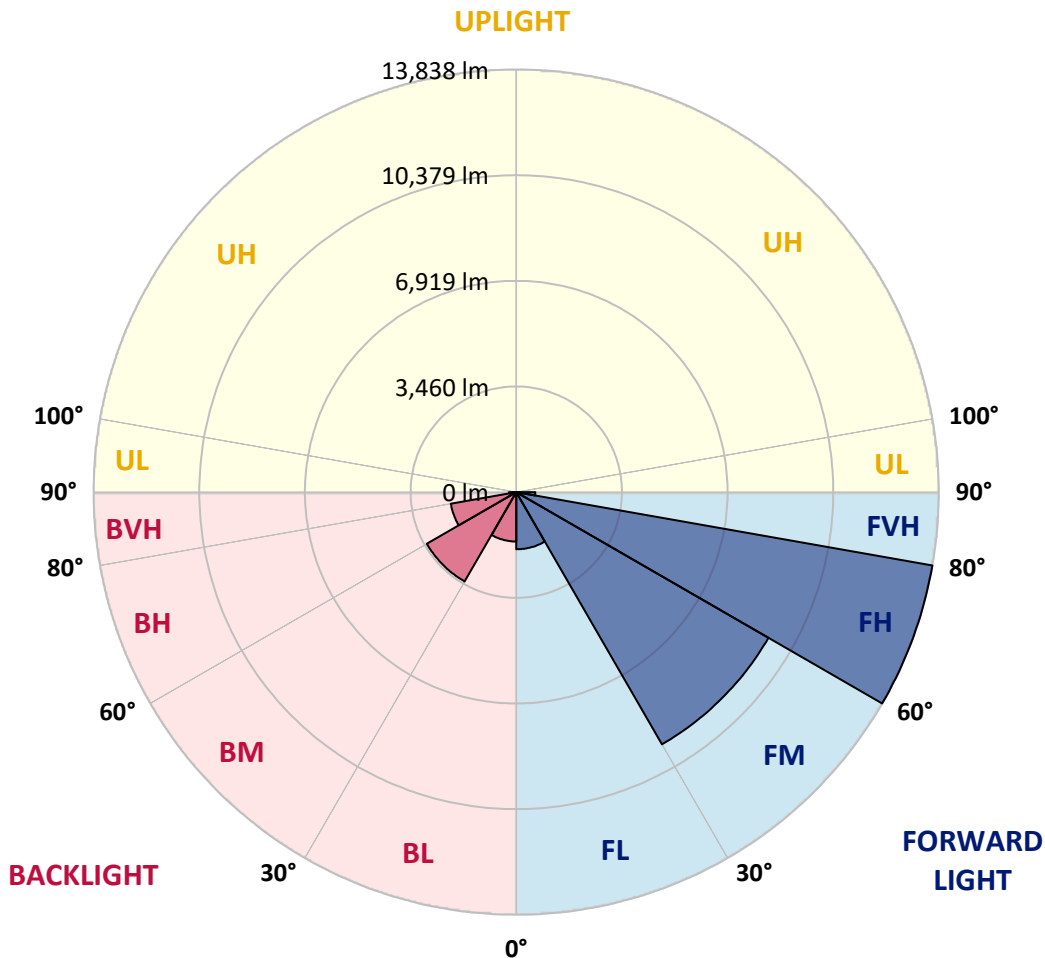
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 CATALOG NUMBER: IFLD-S-SA6B-735-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1870.2	5.6			
FM (30°-60°)	9536.1	28.7			
FH (60°-80°)	13838.2	41.6			G5
FVH (80°-90°)	625.1	1.9			G4/750
BL (0°-30°)	1617.4	4.9	B3/2500		
BM (30°-60°)	3380.7	10.2	B3/5000		
BH (60°-80°)	2175.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	233.7	0.7			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: P478523

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0
2.5°	3610.0	3631.5	3610.0	3606.4	3570.5	3545.4	3566.9	3534.6	3498.7	3484.4	3452.1
5°	3940.1	3943.7	3904.2	3907.8	3832.4	3753.5	3767.9	3671.0	3566.9	3527.4	3462.8
7.5°	4277.4	4237.9	4180.5	4162.6	4044.2	3958.0	3947.3	3861.2	3699.7	3610.0	3520.3
10°	4496.3	4510.7	4417.4	4338.4	4237.9	4133.9	4130.3	3968.8	3875.5	3742.7	3627.9
12.5°	4690.1	4693.7	4614.7	4489.1	4363.5	4234.4	4252.3	4180.5	4022.6	3897.0	3782.2
15°	4840.8	4819.3	4733.1	4618.3	4485.5	4385.1	4374.3	4313.3	4180.5	4076.5	3886.3
17.5°	4883.9	4873.1	4787.0	4665.0	4535.8	4460.4	4489.1	4388.7	4334.8	4241.5	4058.5
20°	4801.3	4776.2	4761.9	4625.5	4532.2	4525.0	4499.9	4521.4	4431.7	4345.6	4212.8
22.5°	4650.6	4639.8	4632.7	4525.0	4482.0	4514.3	4557.3	4589.6	4575.3	4492.7	4342.0
25°	4496.3	4546.5	4499.9	4449.7	4510.7	4593.2	4582.4	4686.5	4686.5	4661.4	4535.8
27.5°	4604.0	4571.7	4535.8	4510.7	4532.2	4661.4	4654.2	4779.8	4826.4	4779.8	4636.3
30°	4873.1	4840.8	4736.7	4625.5	4596.8	4736.7	4772.6	4883.9	4905.4	4790.6	4668.6
32.5°	5379.1	5361.1	5196.1	4869.5	4693.7	4772.6	4790.6	4916.2	4898.2	4826.4	4776.2
35°	6129.0	6068.0	5838.4	5285.8	4898.2	4819.3	4772.6	4873.1	4941.3	4905.4	4858.7
37.5°	6950.8	6882.6	6599.1	5899.4	5267.8	4944.9	4909.0	4991.5	5070.5	5052.5	4955.6
40°	7736.7	7736.7	7481.9	6667.3	5816.9	5249.9	5257.1	5163.8	5235.5	5203.2	5221.2
42.5°	8511.8	8483.1	8379.0	7568.0	6405.4	5759.4	5644.6	5411.4	5540.5	5529.8	5554.9
45°	9297.6	9276.1	9247.4	8407.7	7248.6	6448.4	6387.4	5967.6	6086.0	6035.7	6143.4
47.5°	9925.6	9950.7	9950.7	9344.3	8149.3	7367.1	7277.3	6613.5	6839.6	6864.7	6889.8
50°	10460.3	10471.1	10460.3	10237.8	9154.1	8418.5	8235.5	7560.8	7786.9	7984.3	8213.9
52.5°	11199.5	11213.9	11163.6	11077.5	10517.7	9523.7	9319.2	8569.2	9032.1	9240.2	9652.9
55°	12111.0	12003.3	11910.0	11974.6	11827.5	10740.2	10528.5	9609.8	10306.0	10582.3	11407.6
57.5°	12279.6	12372.9	12609.8	13122.9	13334.6	11924.4	11802.4	10887.3	11745.0	11985.4	13363.3
60°	12875.3	12721.0	13302.3	14414.7	14651.6	13467.4	13341.8	12286.8	13176.7	13427.9	15168.3
62.5°	13266.4	13259.3	14120.5	15441.0	15979.3	15067.8	14813.1	14106.1	14723.4	14967.4	17134.8
65°	13151.6	13255.7	14784.4	16043.9	17088.1	16887.2	16740.1	15670.7	16485.3	16463.7	18415.9
67.5°	12103.8	12398.0	14364.5	16478.1	18738.8	19104.8	19058.2	17870.4	17917.1	17461.3	18986.4
70°	10650.5	10550.0	12588.2	16026.0	19564.2	21735.2	21724.4	19506.7	19205.3	17680.2	17350.1
72°	8181.6	8070.4	9746.2	13761.7	19130.0	22786.6	23109.5	20640.7	19191.0	16772.3	14332.2
72.5°	7428.1	7331.2	8999.8	12954.3	18649.1	23059.3	22908.6	20683.7	19040.2	16345.3	13388.5
75°	3419.8	3308.5	4496.3	7930.4	14547.5	20432.6	20945.7	19356.0	16628.8	13011.7	8020.2
77.5°	1019.1	986.8	1446.1	3200.9	8454.4	15053.5	15250.9	14604.9	11608.6	7126.6	2974.8
80°	567.0	570.6	746.4	1198.5	3717.6	8702.0	9412.5	9021.3	5694.8	2354.0	990.4
82.5°	315.8	333.7	466.5	710.5	1708.1	3993.9	4298.9	4144.6	2059.8	1105.2	541.9
85°	165.1	172.2	244.0	380.4	968.9	1263.1	1299.0	1392.3	1069.4	753.6	290.7
87.5°	64.6	64.6	89.7	157.9	358.8	391.1	351.7	427.0	613.6	488.0	143.5
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°	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0	3427.0
2.5°	3480.8	3452.1	3448.5	3401.8	3416.2	3376.7	3380.3	3373.1	3376.7	3369.5	3351.6
5°	3462.8	3441.3	3380.3	3419.8	3383.9	3434.1	3473.6	3459.3	3470.0	3466.4	3470.0
7.5°	3488.0	3459.3	3452.1	3430.5	3462.8	3484.4	3516.7	3606.4	3599.2	3610.0	3631.5
10°	3563.3	3531.0	3509.5	3541.8	3523.8	3592.0	3627.9	3674.6	3757.1	3760.7	3717.6
12.5°	3710.4	3688.9	3645.9	3653.0	3714.0	3735.6	3757.1	3785.8	3839.6	3828.9	3868.3
15°	3879.1	3832.4	3807.3	3800.2	3814.5	3839.6	3836.0	3864.7	3893.5	3918.6	3907.8
17.5°	4001.1	3940.1	3947.3	3983.2	3979.6	3972.4	3925.7	3911.4	3925.7	3940.1	3932.9
20°	4126.7	4133.9	4080.1	4047.8	4033.4	3961.6	3925.7	3882.7	3839.6	3861.2	3893.5
22.5°	4284.6	4252.3	4173.4	4076.5	4004.7	3961.6	3850.4	3775.0	3775.0	3796.6	3785.8
25°	4464.0	4395.8	4259.5	4083.6	3993.9	3810.9	3732.0	3721.2	3692.5	3724.8	3739.2
27.5°	4604.0	4543.0	4356.4	4058.5	3810.9	3663.8	3617.1	3602.8	3649.4	3653.0	3710.4
30°	4661.4	4643.4	4370.7	3993.9	3624.3	3387.5	3358.8	3423.4	3473.6	3549.0	3552.6
32.5°	4736.7	4743.9	4392.2	3843.2	3380.3	3143.5	3100.4	3179.4	3322.9	3383.9	3430.5
35°	4862.3	4898.2	4374.3	3656.6	3121.9	2895.9	2888.7	2910.2	3050.2	3157.8	3218.8
37.5°	5081.2	5074.0	4370.7	3434.1	2917.4	2680.6	2623.1	2630.3	2723.6	2813.3	2802.6
40°	5375.5	5346.8	4359.9	3143.5	2651.9	2497.6	2400.7	2364.8	2357.6	2332.5	2339.7
42.5°	5777.4	5720.0	4356.4	2849.2	2411.4	2246.4	2178.2	2084.9	2016.7	1887.5	1894.7
45°	6337.2	6236.7	4263.1	2572.9	2174.6	2038.2	1934.2	1866.0	1718.9	1557.4	1557.4
47.5°	7202.0	6875.4	4266.7	2267.9	1944.9	1833.7	1761.9	1643.5	1485.6	1356.4	1342.1
50°	8475.9	7729.5	4144.6	2027.5	1758.3	1683.0	1607.6	1471.3	1320.5	1230.8	1241.6
52.5°	10119.4	9003.4	4141.1	1812.2	1611.2	1557.4	1474.8	1352.8	1241.6	1184.2	1162.7
55°	12078.7	10690.0	4270.2	1636.3	1460.5	1431.8	1395.9	1295.4	1187.8	1137.5	1133.9
57.5°	14084.6	12337.0	4478.4	1510.7	1331.3	1352.8	1327.7	1248.8	1162.7	1105.2	1098.1
60°	15868.1	13643.2	4058.5	1360.0	1216.5	1263.1	1299.0	1230.8	1184.2	1180.6	1155.5
62.5°	17213.7	14203.0	3086.1	1245.2	1155.5	1241.6	1338.5	1381.5	1360.0	1388.7	1392.3
65°	17705.3	13865.7	2124.4	1184.2	1108.8	1291.8	1507.1	1492.8	1367.2	1313.4	1342.1
67.5°	17016.4	12498.5	1575.3	1112.4	1076.5	1395.9	1604.0	1424.6	1234.4	1227.2	1205.7
70°	14633.6	10593.1	1284.7	1037.1	1022.7	1338.5	1561.0	1320.5	1162.7	1116.0	1094.5
72°	11658.8	8249.8	1126.8	983.2	936.6	1194.9	1460.5	1238.0	1101.6	1044.2	1019.1
72.5°	10643.3	7647.0	1105.2	958.1	918.6	1162.7	1410.3	1212.9	1087.3	1037.1	997.6
75°	5838.4	3915.0	972.5	879.2	775.1	1004.8	1306.2	1137.5	1026.3	954.5	947.3
77.5°	2171.0	1517.9	839.7	778.7	671.0	868.4	1187.8	1080.1	933.0	843.3	825.3
80°	832.5	800.2	685.4	656.7	563.4	760.7	1094.5	968.9	793.0	703.3	674.6
82.5°	506.0	466.5	520.3	513.1	430.6	692.6	1029.9	907.9	703.3	570.6	552.6
85°	276.3	276.3	362.4	348.1	301.4	552.6	778.7	602.9	445.0	366.0	373.2
87.5°	122.0	143.5	193.8	183.0	165.1	312.2	380.4	319.4	222.5	150.7	161.5
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)