

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: P478066

Luminaire Tested: **IFLD-L-SA7C-727-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478066  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-727-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

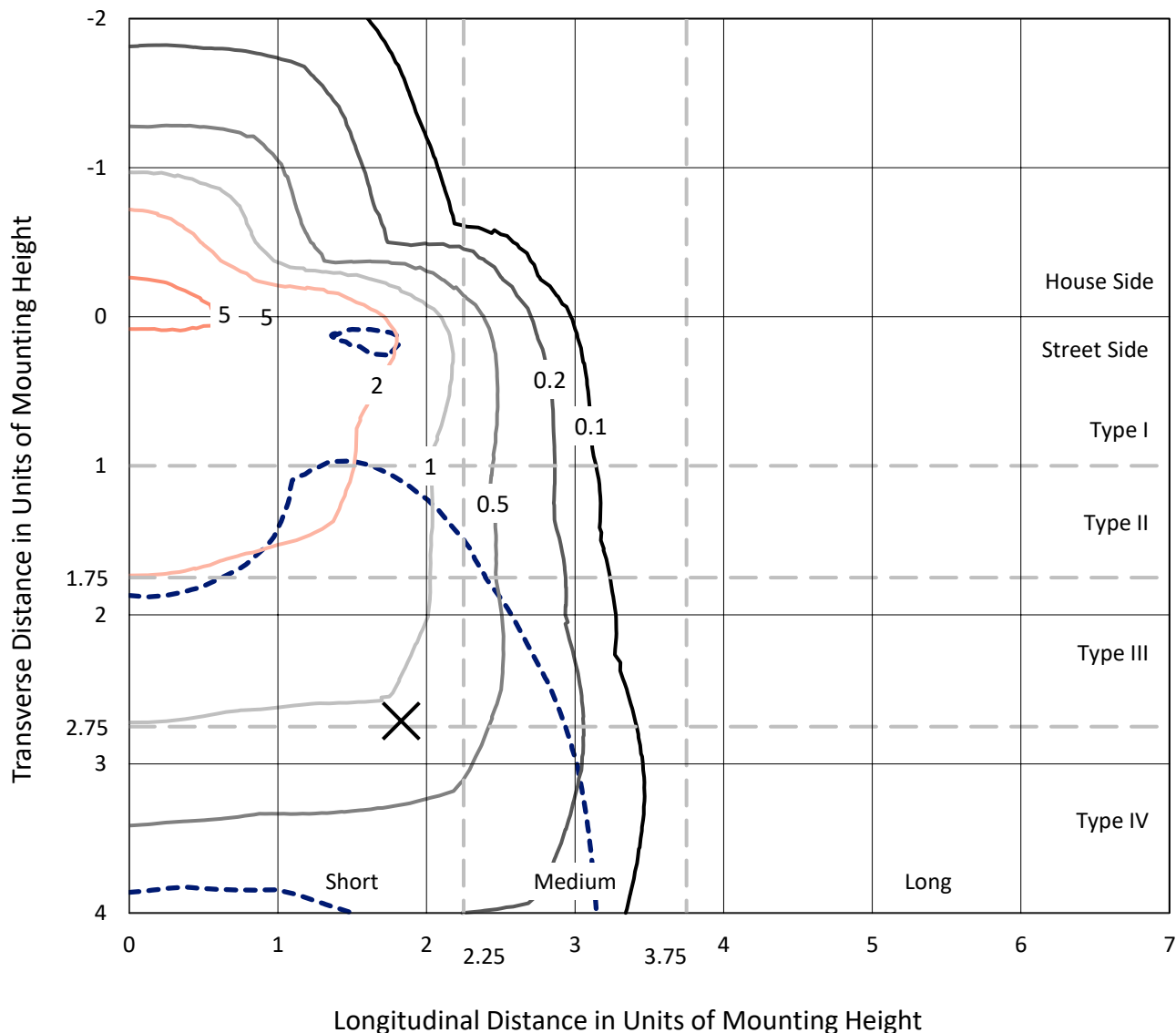
Lumens per Lamp: N/A  
Luminaire Lumens: 37981.9 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 369  
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

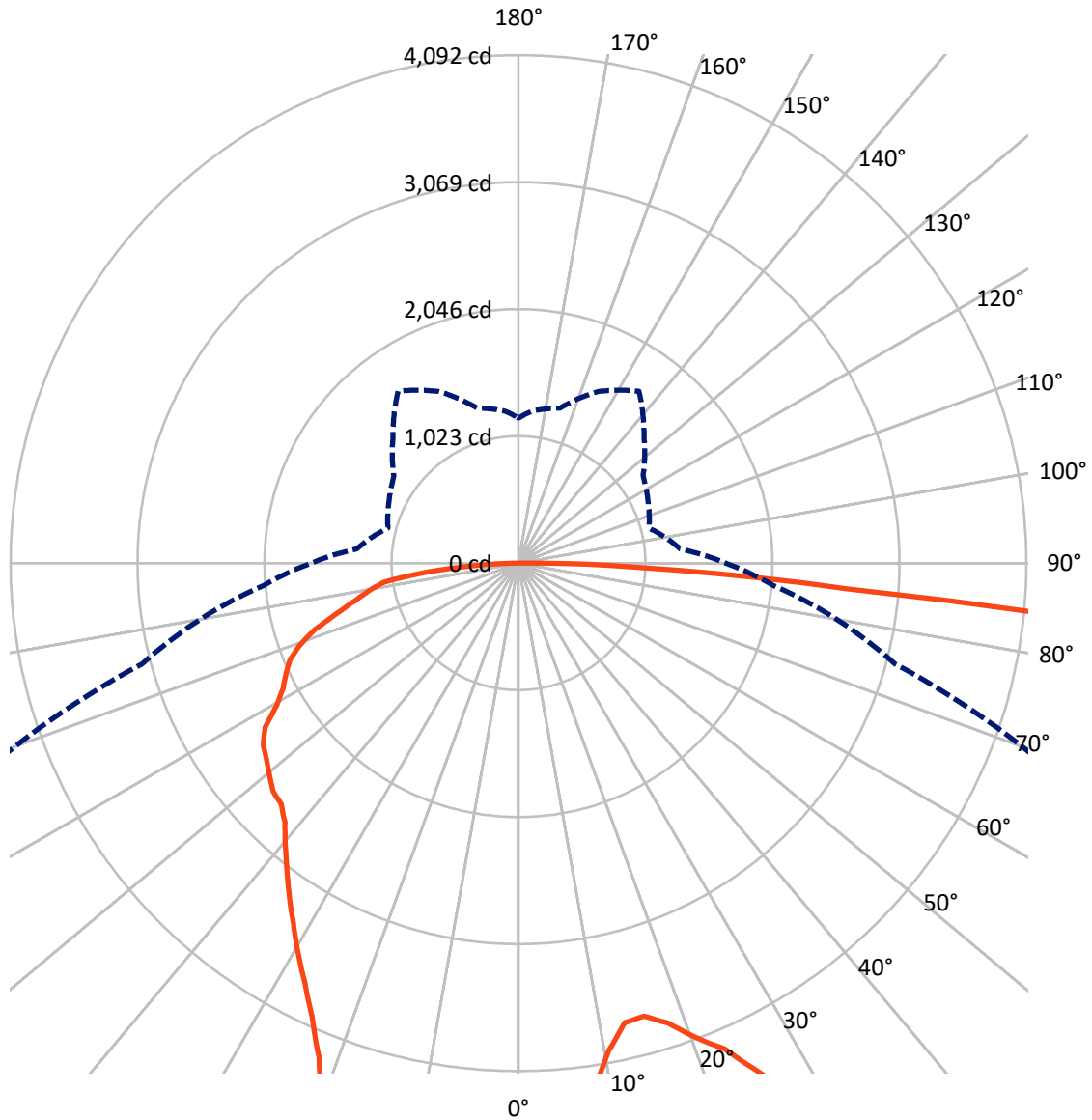
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8204.6	0.0	8204.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	29777.3	0.0	29777.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	37981.9	0.0	37981.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.6	1.3
10°-20°	1406.5	3.7
20°-30°	2314.9	6.1
30°-40°	3461.9	9.1
40°-50°	5132.1	13.5
50°-60°	7395.9	19.5
60°-70°	9438.2	24.8
70°-80°	7344.5	19.3
80°-90°	985.3	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°	37981.9	100.0
0°-180°	37981.9	100.0

**Coefficient of Utilization**



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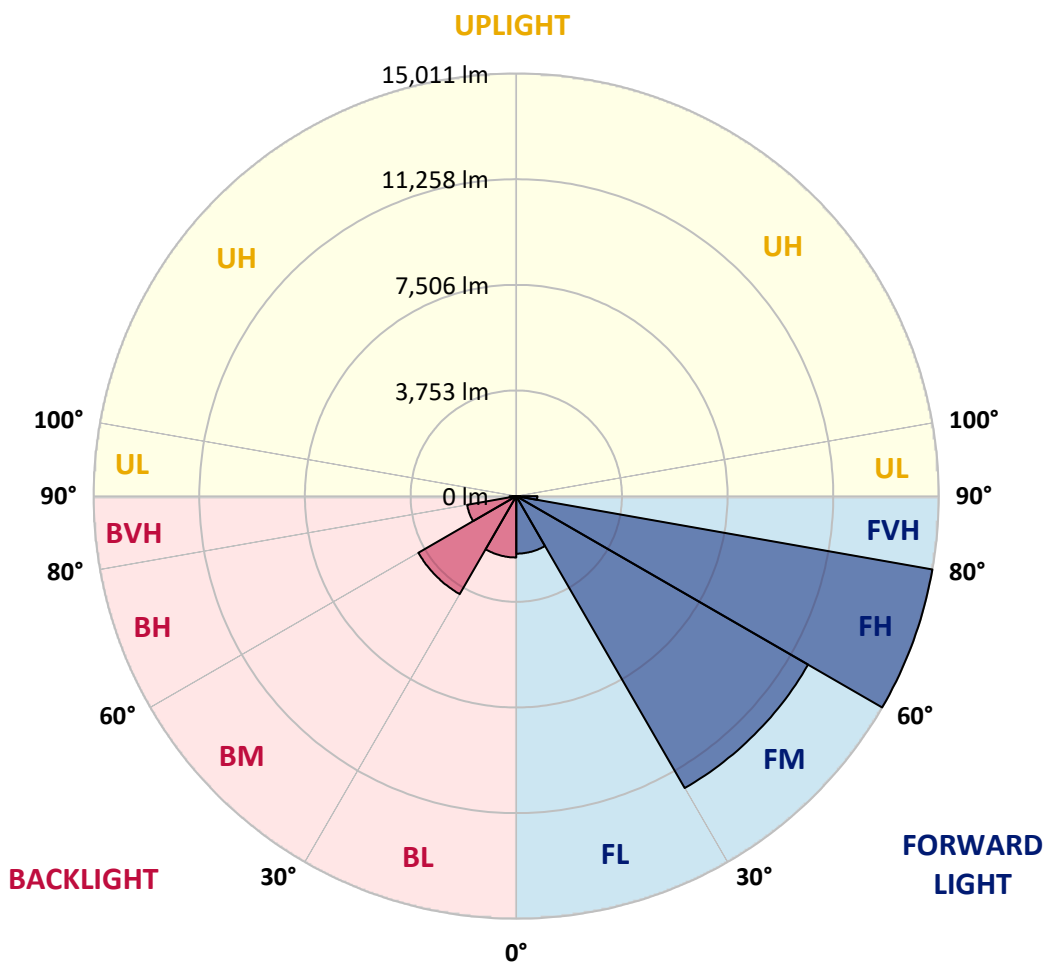
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2044.1	5.4			
FM (30°-60°)	11972.1	31.5			
FH (60°-80°)	15011.1	39.5			G5
FVH (80°-90°)	750.0	2.0			G4/750
BL (0°-30°)	2179.9	5.7	B3/2500		
BM (30°-60°)	4017.8	10.6	B3/5000		
BH (60°-80°)	1771.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	235.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3
2.5°	4879.1	4895.1	4947.4	4959.4	5015.6	4983.5	5051.8	5172.2	5240.5	5340.9	5461.4
5°	4493.6	4425.3	4457.4	4581.9	4646.2	4662.2	4734.5	4939.3	5067.8	5216.4	5441.3
7.5°	4039.8	4027.8	4092.0	4172.3	4300.8	4312.9	4473.5	4654.2	4919.2	5248.5	5513.6
10°	3730.6	3782.8	3818.9	3903.3	3991.6	3991.6	4196.4	4509.6	4810.8	5128.1	5529.6
12.5°	3714.5	3682.4	3690.4	3734.6	3798.9	3879.2	4071.9	4353.0	4734.5	5104.0	5597.9
15°	3766.7	3778.8	3706.5	3762.7	3786.8	3814.9	4027.8	4345.0	4686.3	5188.3	5714.4
17.5°	4043.8	3975.6	3863.1	3810.9	3895.2	3895.2	4039.8	4288.8	4694.4	5232.5	5883.0
20°	4260.7	4260.7	4075.9	4019.7	4080.0	4067.9	4168.3	4353.0	4734.5	5320.8	6071.8
22.5°	4626.1	4678.3	4373.1	4256.7	4252.6	4284.8	4373.1	4529.7	4847.0	5445.3	6252.5
25°	5152.2	5164.2	4810.8	4690.3	4561.8	4614.0	4630.1	4786.7	4947.4	5589.9	6457.3
27.5°	5738.4	5730.4	5405.1	5104.0	5019.6	5031.7	4943.3	5047.7	5095.9	5634.0	6750.4
30°	6389.0	6316.7	6071.8	5646.1	5577.8	5501.5	5308.8	5304.8	5405.1	5883.0	7156.0
32.5°	6814.7	6722.3	6553.6	6248.4	6059.7	6067.7	5762.5	5758.5	5670.2	6156.1	7509.4
35°	7232.3	7091.7	7047.6	6734.3	6545.6	6565.7	6320.7	6288.6	6128.0	6569.7	8091.7
37.5°	7734.3	7609.8	7678.0	7441.1	7208.2	7111.8	6999.4	6959.2	6750.4	7152.0	8886.8
40°	8288.4	8248.3	8204.1	8087.6	7947.1	7955.1	7834.6	7794.5	7485.3	7854.7	9649.7
42.5°	9035.3	8882.7	8653.9	8730.1	8802.4	8878.7	8838.6	8734.2	8412.9	8569.5	10501.1
45°	9730.1	9529.3	9107.6	9131.7	9428.9	9489.1	9975.0	9963.0	9316.4	9477.1	11468.9
47.5°	10199.9	10107.5	9854.5	9826.4	10252.1	10248.1	11123.5	11123.5	10268.2	10380.6	12508.9
50°	10898.6	10657.7	10549.3	10689.8	10906.7	11055.2	12296.1	12372.4	11203.8	11324.3	13870.3
52.5°	11717.8	11416.7	11143.6	11505.0	11890.5	11986.9	13456.6	13424.5	11922.6	12420.6	15464.5
55°	12396.5	12243.9	12055.2	12264.0	12894.4	13014.9	14621.2	14324.0	12641.4	13328.1	16231.5
57.5°	13187.6	13279.9	13320.1	13267.9	14018.8	14207.6	15950.4	15099.1	13259.9	13938.5	16681.3
60°	14380.2	14436.5	14488.7	14613.2	15408.3	15673.3	17002.5	16070.9	13649.4	14291.9	16717.4
62.5°	16195.3	15978.5	16095.0	16524.6	17163.1	17464.3	18552.6	16753.5	13946.6	14504.7	15536.8
65°	18271.5	17978.3	17857.9	18412.0	20066.5	19825.5	20488.1	17263.5	13516.9	13709.6	13175.5
67.5°	20375.7	20407.8	20098.6	21211.0	23238.9	23238.9	22287.2	17508.5	12352.3	11111.5	9240.1
70°	22046.2	22146.6	22315.3	24471.7	27684.3	28170.2	24515.9	16504.6	9979.0	7396.9	5051.8
72.5°	22022.1	21721.0	22584.3	26555.9	31724.1	31318.5	24981.7	13051.1	6228.4	3622.2	2317.1
73°	21528.2	21275.2	22218.9	26535.8	31888.7	31507.2	24640.4	12031.1	5493.5	3140.3	2060.1
75°	17580.8	17123.0	18729.3	24034.0	29503.4	29796.6	20933.9	7846.7	3011.8	1935.6	1449.7
77.5°	8015.4	8216.1	10308.3	16123.1	22736.9	23082.3	13761.8	3393.3	1650.5	1357.3	1068.2
80°	2574.1	2702.6	4011.7	8015.4	14251.7	14874.2	6360.9	1542.0	1176.6	1040.1	799.1
82.5°	983.8	979.8	1682.6	3333.0	6754.4	7152.0	2325.1	939.7	875.4	767.0	566.2
85°	345.4	361.4	634.5	1317.2	2658.4	2782.9	807.2	522.0	606.4	514.0	325.3
87.5°	120.5	124.5	224.9	477.9	915.6	967.8	224.9	208.8	301.2	297.2	164.6
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°	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3	5445.3
2.5°	5501.5	5537.7	5549.7	5694.3	5694.3	5694.3	5750.5	5750.5	5734.4	5694.3	5790.7
5°	5525.6	5589.9	5714.4	5838.8	5871.0	5899.1	5975.4	5911.1	5935.2	5895.1	5931.2
7.5°	5593.9	5682.2	5915.1	5991.4	5939.2	5999.5	5919.2	5875.0	5830.8	5846.9	5790.7
10°	5710.3	5822.8	5931.2	6071.8	5971.4	5911.1	5746.5	5706.3	5565.8	5517.6	5561.8
12.5°	5854.9	5991.4	6176.2	6124.0	5931.2	5758.5	5581.8	5413.2	5328.8	5208.4	5240.5
15°	5999.5	6156.1	6184.2	6095.8	5854.9	5638.1	5316.8	5079.9	4995.5	4887.1	4943.3
17.5°	6156.1	6304.7	6256.5	6027.6	5702.3	5373.0	5007.6	4774.7	4598.0	4529.7	4529.7
20°	6389.0	6461.3	6385.0	5915.1	5517.6	5083.9	4730.5	4465.5	4288.8	4260.7	4216.5
22.5°	6569.7	6686.2	6344.8	5750.5	5248.5	4706.4	4300.8	4200.4	4148.2	4104.1	4047.8
25°	6802.6	6798.6	6272.5	5597.9	4786.7	4256.7	4011.7	4003.7	3979.6	3963.5	4039.8
27.5°	7023.5	6931.1	6188.2	5220.4	4308.9	3915.3	3782.8	3871.1	3907.3	3883.2	3915.3
30°	7372.8	7220.2	6067.7	4818.8	3887.2	3570.0	3594.1	3714.5	3774.8	3810.9	3762.7
32.5°	7742.3	7509.4	5818.8	4401.2	3513.7	3353.1	3409.3	3533.8	3606.1	3646.3	3690.4
35°	8276.4	7734.3	5565.8	3855.1	3244.7	3220.6	3252.7	3321.0	3425.4	3453.5	3465.6
37.5°	8934.9	8075.6	5224.4	3417.4	3035.9	3064.0	3096.1	3120.2	3124.2	3176.4	3156.3
40°	9593.5	8364.7	4726.5	2999.7	2819.0	2971.6	2955.6	2911.4	2875.2	2827.1	2815.0
42.5°	10171.8	8617.7	4172.3	2646.4	2626.3	2875.2	2823.0	2710.6	2626.3	2590.1	2529.9
45°	10822.3	8975.1	3614.1	2425.5	2477.7	2758.8	2742.7	2570.1	2461.6	2333.1	2317.1
47.5°	11665.6	9348.6	3080.0	2196.6	2337.1	2714.6	2722.6	2501.8	2345.2	2172.5	2148.4
50°	12745.9	9886.7	2674.5	2100.2	2252.8	2650.4	2662.4	2409.4	2204.6	2027.9	2011.9
52.5°	13781.9	10436.8	2337.1	1951.6	2196.6	2574.1	2602.2	2325.1	2088.2	1867.3	1879.4
55°	14304.0	10236.0	2048.0	1843.2	2068.1	2449.6	2554.0	2264.9	1911.5	1758.9	1754.9
57.5°	14420.4	9742.1	1819.1	1730.8	1959.7	2317.1	2473.7	2084.2	1831.2	1702.7	1686.6
60°	14038.9	8878.7	1638.4	1610.3	1823.1	2180.5	2289.0	1987.8	1750.8	1646.4	1622.3
62.5°	13099.2	7983.2	1513.9	1554.1	1706.7	2031.9	2172.5	1919.5	1674.6	1602.3	1550.1
65°	10742.0	6565.7	1413.5	1445.7	1586.2	1887.4	2100.2	1843.2	1606.3	1538.0	1534.0
67.5°	7441.1	4525.7	1333.2	1393.5	1489.8	1783.0	2027.9	1758.9	1517.9	1493.8	1461.7
70°	3810.9	2413.4	1228.8	1277.0	1385.4	1650.5	1899.4	1670.5	1425.6	1421.6	1381.4
72.5°	1931.6	1413.5	1108.3	1180.6	1256.9	1477.8	1738.8	1554.1	1309.1	1264.9	1200.7
73°	1670.5	1309.1	1088.3	1152.5	1224.8	1429.6	1690.6	1526.0	1293.1	1228.8	1168.6
75°	1216.8	1032.0	975.8	1040.1	1096.3	1289.0	1530.0	1397.5	1188.6	1120.4	1064.2
77.5°	911.6	795.1	811.2	883.5	931.6	1112.4	1361.3	1264.9	1076.2	983.8	959.8
80°	670.6	606.4	670.6	738.9	775.0	979.8	1240.9	1096.3	907.5	803.1	783.1
82.5°	477.9	441.7	518.0	562.2	578.3	811.2	1116.4	875.4	686.7	550.2	506.0
85°	273.1	269.1	349.4	345.4	357.4	473.9	734.9	582.3	441.7	337.3	329.3
87.5°	120.5	132.5	176.7	140.5	148.6	224.9	313.2	216.8	180.7	100.4	76.3
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)