

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: P478611

Luminaire Tested: **IFLD-L-SA7B-750-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478611  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-750-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

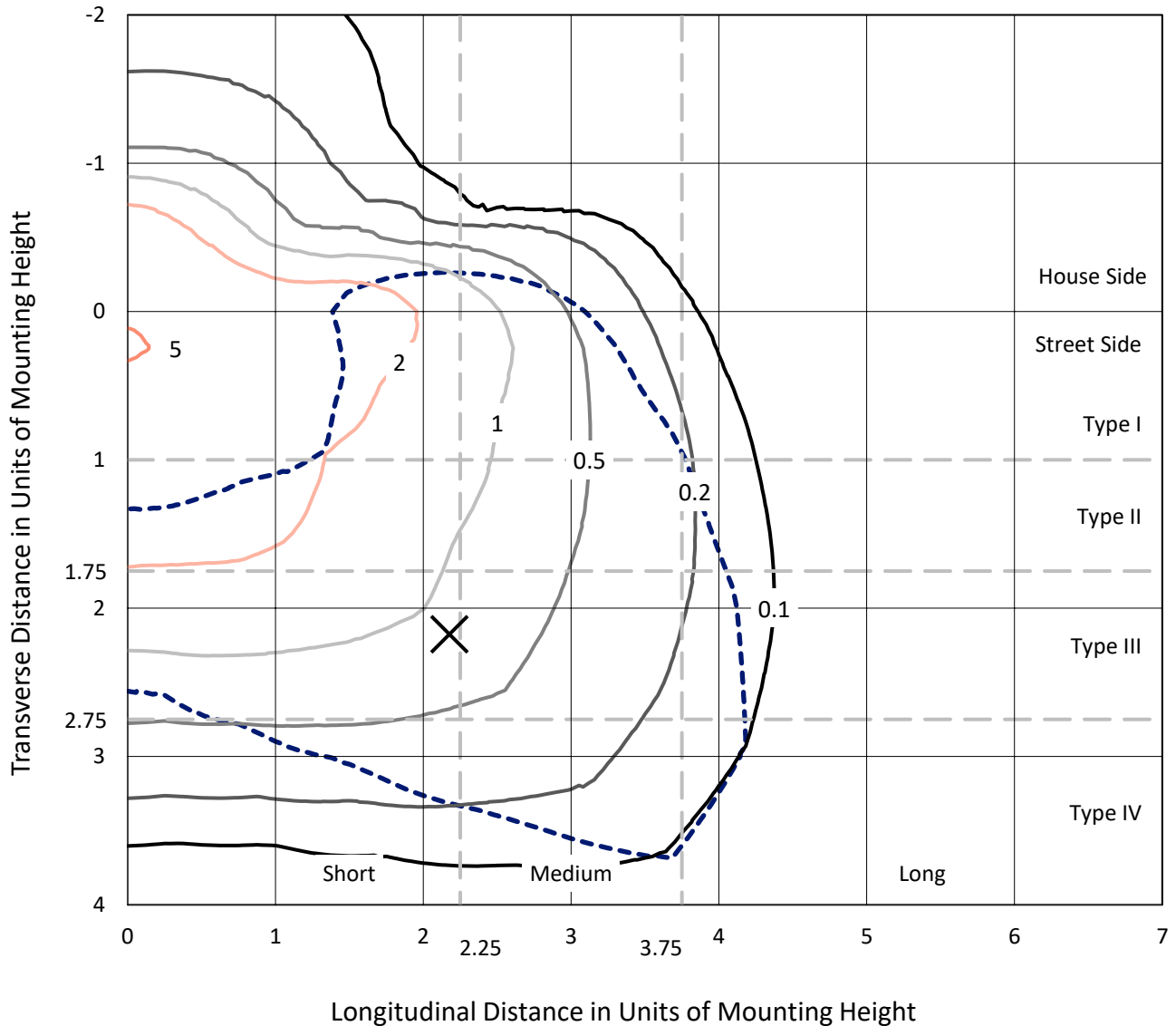
Lumens per Lamp: N/A  
Luminaire Lumens: 36820.3 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 281  
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

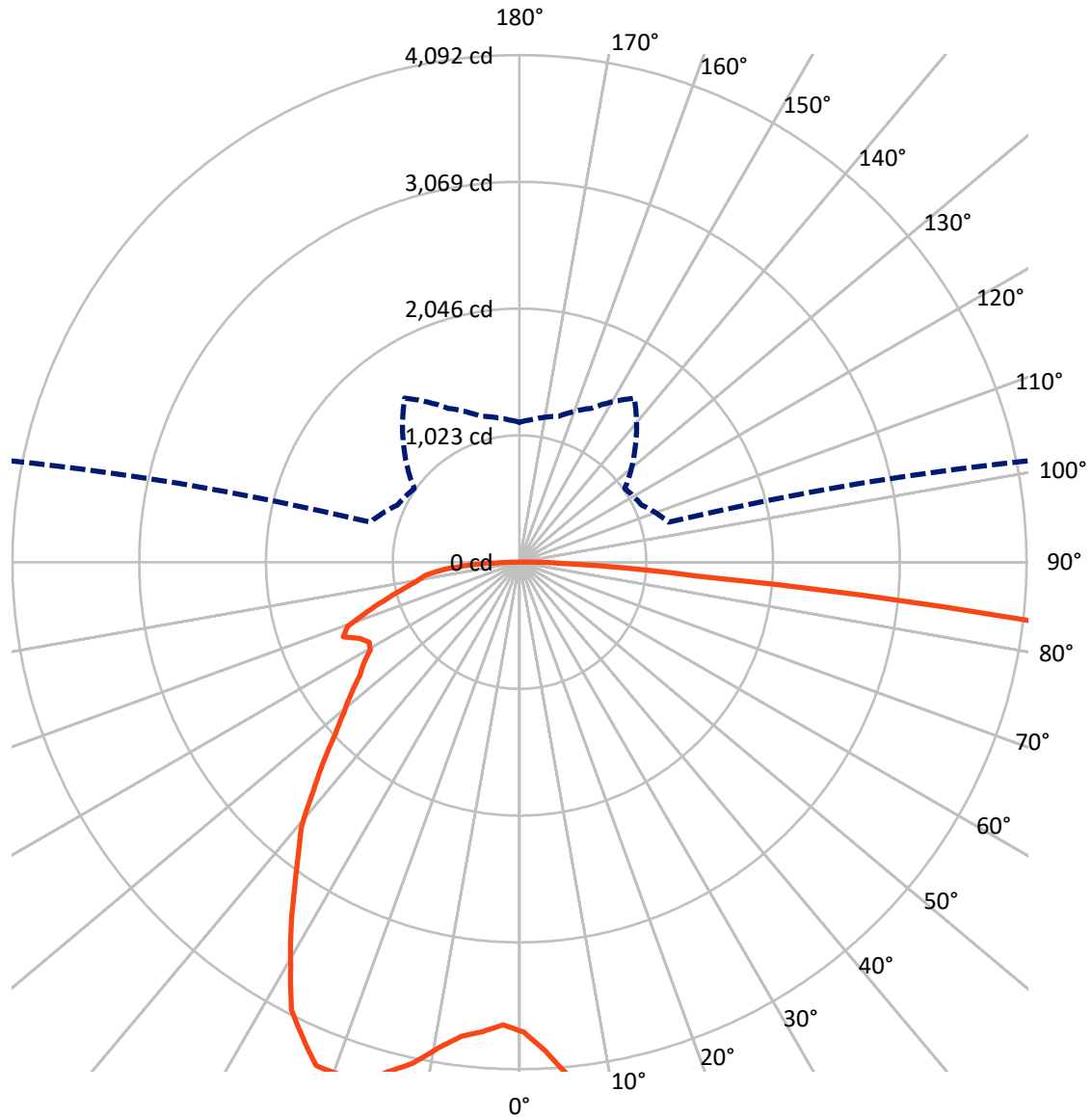
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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
<b>House Side</b>	Lumens	8196.4	0.0	8196.4
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	28623.9	0.0	28623.9
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	36820.3	0.0	36820.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.0	1.1
10°-20°	1290.9	3.5
20°-30°	2180.0	5.9
30°-40°	3016.8	8.2
40°-50°	4315.2	11.7
50°-60°	6960.0	18.9
60°-70°	10265.0	27.9
70°-80°	7454.1	20.2
80°-90°	950.2	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°	36820.3	100.0
0°-180°	36820.3	100.0

**Coefficient of Utilization**



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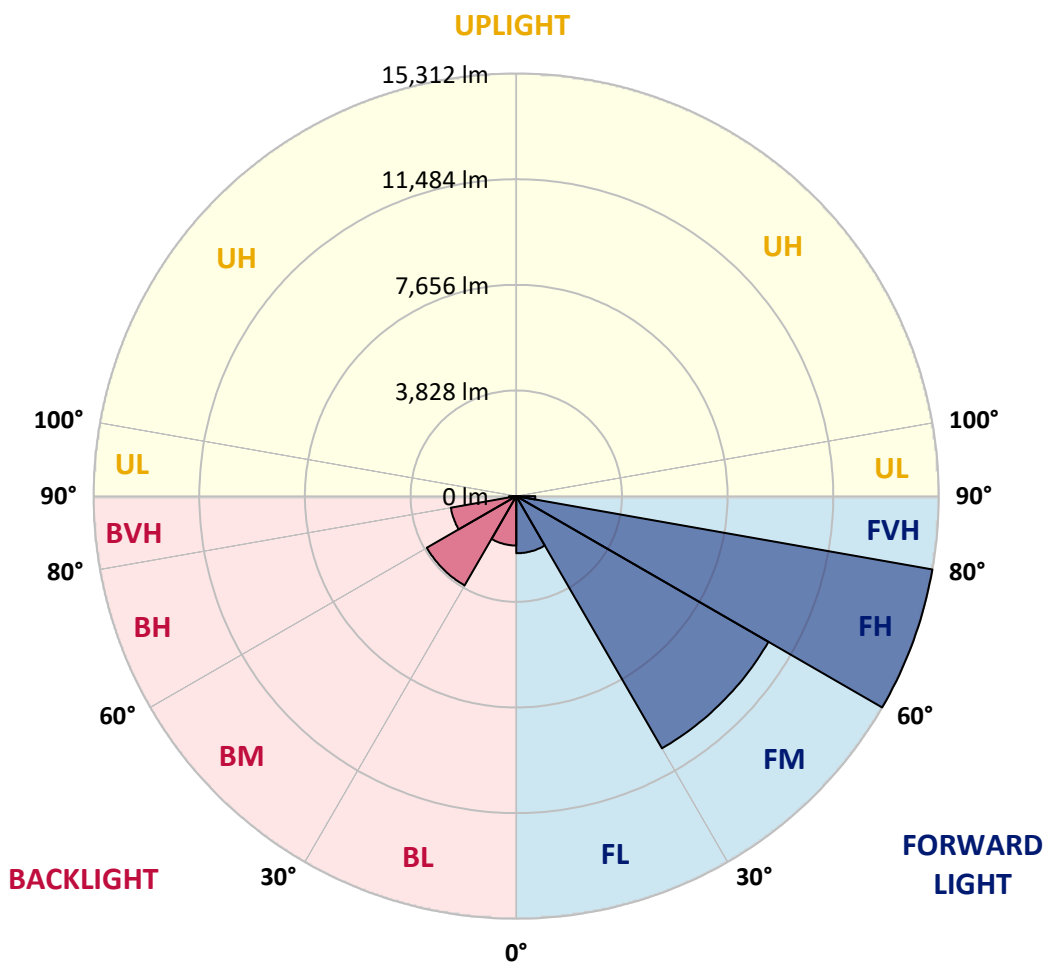
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2069.3	5.6			
FM (30°-60°)	10551.4	28.7			
FH (60°-80°)	15311.5	41.6			G5
FVH (80°-90°)	691.6	1.9			G4/750
BL (0°-30°)	1789.6	4.9	B3/2500		
BM (30°-60°)	3740.6	10.2	B3/5000		
BH (60°-80°)	2407.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	258.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8
2.5°	3994.3	4018.1	3994.3	3990.3	3950.6	3922.8	3946.7	3910.9	3871.2	3855.3	3819.6
5°	4359.6	4363.6	4319.9	4323.9	4240.5	4153.1	4169.0	4061.8	3946.7	3903.0	3831.5
7.5°	4732.8	4689.2	4625.6	4605.8	4474.7	4379.5	4367.5	4272.3	4093.6	3994.3	3895.1
10°	4975.0	4990.9	4887.7	4800.3	4689.2	4574.0	4570.0	4391.4	4288.1	4141.2	4014.2
12.5°	5189.4	5193.4	5106.1	4967.1	4828.1	4685.2	4705.0	4625.6	4450.9	4312.0	4184.9
15°	5356.2	5332.4	5237.1	5110.0	4963.1	4851.9	4840.0	4772.5	4625.6	4510.5	4300.0
17.5°	5403.8	5391.9	5296.6	5161.6	5018.7	4935.3	4967.1	4855.9	4796.4	4693.1	4490.6
20°	5312.5	5284.7	5268.8	5118.0	5014.7	5006.8	4979.0	5002.8	4903.6	4808.3	4661.4
22.5°	5145.8	5133.8	5125.9	5006.8	4959.1	4994.9	5042.5	5078.3	5062.4	4971.1	4804.3
25°	4975.0	5030.6	4979.0	4923.4	4990.9	5082.2	5070.3	5185.5	5185.5	5157.7	5018.7
27.5°	5094.1	5058.4	5018.7	4990.9	5014.7	5157.7	5149.7	5288.7	5340.3	5288.7	5129.9
30°	5391.9	5356.2	5241.1	5118.0	5086.2	5241.1	5280.8	5403.8	5427.7	5300.6	5165.6
32.5°	5951.8	5931.9	5749.3	5388.0	5193.4	5280.8	5300.6	5439.6	5419.7	5340.3	5284.7
35°	6781.6	6714.1	6460.0	5848.5	5419.7	5332.4	5280.8	5391.9	5467.4	5427.7	5376.0
37.5°	7690.8	7615.4	7301.7	6527.5	5828.7	5471.3	5431.6	5523.0	5610.3	5590.5	5483.3
40°	8560.4	8560.4	8278.5	7377.2	6436.2	5808.8	5816.8	5713.5	5793.0	5757.2	5777.1
42.5°	9418.0	9386.2	9271.1	8373.8	7087.3	6372.6	6245.6	5987.5	6130.4	6118.5	6146.3
45°	10287.6	10263.7	10232.0	9302.9	8020.4	7135.0	7067.5	6602.9	6734.0	6678.4	6797.5
47.5°	10982.4	11010.2	11010.2	10339.2	9017.0	8151.4	8052.2	7317.6	7567.8	7595.6	7623.3
50°	11574.0	11585.9	11574.0	11327.8	10128.7	9314.8	9112.3	8365.8	8616.0	8834.3	9088.5
52.5°	12391.9	12407.8	12352.2	12256.9	11637.5	10537.7	10311.4	9481.5	9993.7	10224.0	10680.6
55°	13400.4	13281.3	13178.1	13249.5	13086.7	11883.7	11649.4	10633.0	11403.3	11709.0	12622.2
57.5°	13587.0	13690.3	13952.3	14520.1	14754.4	13194.0	13059.0	12046.5	12995.4	13261.5	14786.1
60°	14246.1	14075.4	14718.6	15949.5	16211.5	14901.3	14762.3	13595.0	14579.7	14857.6	16783.3
62.5°	14678.9	14671.0	15623.9	17085.0	17680.6	16672.1	16390.2	15608.0	16290.9	16560.9	18959.1
65°	14551.9	14667.0	16358.4	17752.1	18907.5	18685.1	18522.4	17339.1	18240.5	18216.6	20376.6
67.5°	13392.5	13718.1	15893.9	18232.5	20733.9	21138.9	21087.3	19773.1	19824.7	19320.4	21007.9
70°	11784.4	11673.3	13928.5	17732.2	21647.1	24049.3	24037.4	21583.6	21250.1	19562.6	19197.3
72°	9052.7	8929.6	10783.9	15226.8	21166.7	25212.6	25570.0	22838.3	21234.2	18558.1	15858.2
72.5°	8218.9	8111.7	9958.0	14333.5	20634.7	25514.4	25347.6	22885.9	21067.4	18085.6	14813.9
75°	3783.9	3660.8	4975.0	8774.8	16096.4	22608.0	23175.8	21416.8	18399.3	14397.0	8874.1
77.5°	1127.6	1091.9	1600.1	3541.7	9354.5	16656.2	16874.6	16159.9	12844.5	7885.4	3291.5
80°	627.3	631.3	825.9	1326.1	4113.4	9628.4	10414.6	9981.8	6301.2	2604.6	1095.9
82.5°	349.4	369.3	516.2	786.2	1890.0	4419.2	4756.7	4585.9	2279.1	1222.9	599.5
85°	182.6	190.6	270.0	420.9	1072.0	1397.6	1437.3	1540.6	1183.2	833.8	321.6
87.5°	71.5	71.5	99.3	174.7	397.0	432.8	389.1	472.5	679.0	540.0	158.8
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°	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8	3791.8
2.5°	3851.4	3819.6	3815.6	3764.0	3779.9	3736.2	3740.2	3732.3	3736.2	3728.3	3708.4
5°	3831.5	3807.7	3740.2	3783.9	3744.2	3799.8	3843.4	3827.6	3839.5	3835.5	3839.5
7.5°	3859.3	3827.6	3819.6	3795.8	3831.5	3855.3	3891.1	3990.3	3982.4	3994.3	4018.1
10°	3942.7	3907.0	3883.1	3918.9	3899.0	3974.5	4014.2	4065.8	4157.1	4161.1	4113.4
12.5°	4105.5	4081.7	4034.0	4042.0	4109.5	4133.3	4157.1	4188.9	4248.4	4236.5	4280.2
15°	4292.1	4240.5	4212.7	4204.8	4220.6	4248.4	4244.5	4276.2	4308.0	4335.8	4323.9
17.5°	4427.1	4359.6	4367.5	4407.2	4403.3	4395.3	4343.7	4327.8	4343.7	4359.6	4351.7
20°	4566.1	4574.0	4514.5	4478.7	4462.8	4383.4	4343.7	4296.1	4248.4	4272.3	4308.0
22.5°	4740.8	4705.0	4617.7	4510.5	4431.1	4383.4	4260.3	4177.0	4177.0	4200.8	4188.9
25°	4939.3	4863.9	4713.0	4518.4	4419.2	4216.7	4129.3	4117.4	4085.6	4121.4	4137.3
27.5°	5094.1	5026.6	4820.2	4490.6	4216.7	4053.9	4002.3	3986.4	4038.0	4042.0	4105.5
30°	5157.7	5137.8	4836.1	4419.2	4010.2	3748.1	3716.4	3787.9	3843.4	3926.8	3930.8
32.5°	5241.1	5249.0	4859.9	4252.4	3740.2	3478.2	3430.5	3517.9	3676.7	3744.2	3795.8
35°	5380.0	5419.7	4840.0	4045.9	3454.3	3204.2	3196.2	3220.1	3374.9	3494.0	3561.5
37.5°	5622.2	5614.3	4836.1	3799.8	3228.0	2966.0	2902.4	2910.4	3013.6	3112.9	3101.0
40°	5947.8	5916.0	4824.2	3478.2	2934.2	2763.5	2656.3	2616.6	2608.6	2580.8	2588.8
42.5°	6392.5	6329.0	4820.2	3152.6	2668.2	2485.5	2410.1	2306.9	2231.4	2088.5	2096.4
45°	7011.9	6900.7	4716.9	2846.8	2406.1	2255.2	2140.1	2064.7	1901.9	1723.2	1723.2
47.5°	7968.8	7607.5	4720.9	2509.4	2152.0	2028.9	1949.5	1818.5	1643.8	1500.8	1485.0
50°	9378.3	8552.4	4585.9	2243.3	1945.5	1862.2	1778.8	1627.9	1461.1	1361.9	1373.8
52.5°	11196.8	9962.0	4582.0	2005.1	1782.8	1723.2	1631.9	1496.9	1373.8	1310.3	1286.4
55°	13364.7	11828.1	4724.9	1810.5	1616.0	1584.2	1544.5	1433.3	1314.2	1258.6	1254.7
57.5°	15584.2	13650.6	4955.2	1671.6	1473.1	1496.9	1469.1	1381.7	1286.4	1222.9	1215.0
60°	17557.5	15095.8	4490.6	1504.8	1346.0	1397.6	1437.3	1361.9	1310.3	1306.3	1278.5
62.5°	19046.5	15715.2	3414.6	1377.8	1278.5	1373.8	1481.0	1528.6	1504.8	1536.6	1540.6
65°	19590.4	15342.0	2350.5	1310.3	1226.9	1429.4	1667.6	1651.7	1512.8	1453.2	1485.0
67.5°	18828.1	13829.2	1743.0	1230.9	1191.1	1544.5	1774.8	1576.3	1365.9	1357.9	1334.1
70°	16191.7	11720.9	1421.4	1147.5	1131.6	1481.0	1727.2	1461.1	1286.4	1234.8	1211.0
72°	12900.1	9128.2	1246.7	1087.9	1036.3	1322.2	1616.0	1369.8	1218.9	1155.4	1127.6
72.5°	11776.5	8461.1	1222.9	1060.1	1016.4	1286.4	1560.4	1342.0	1203.1	1147.5	1103.8
75°	6460.0	4331.8	1076.0	972.8	857.6	1111.7	1445.3	1258.6	1135.6	1056.2	1048.2
77.5°	2402.1	1679.5	929.1	861.6	742.5	960.9	1314.2	1195.1	1032.3	933.1	913.2
80°	921.2	885.4	758.4	726.6	623.4	841.7	1211.0	1072.0	877.5	778.2	746.5
82.5°	559.8	516.2	575.7	567.8	476.5	766.3	1139.5	1004.5	778.2	631.3	611.5
85°	305.7	305.7	401.0	385.1	333.5	611.5	861.6	667.0	492.3	405.0	412.9
87.5°	135.0	158.8	214.4	202.5	182.6	345.4	420.9	353.4	246.2	166.8	178.7
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)