

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: P476936

Luminaire Tested: **IFLD-L-SA7D-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476936
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

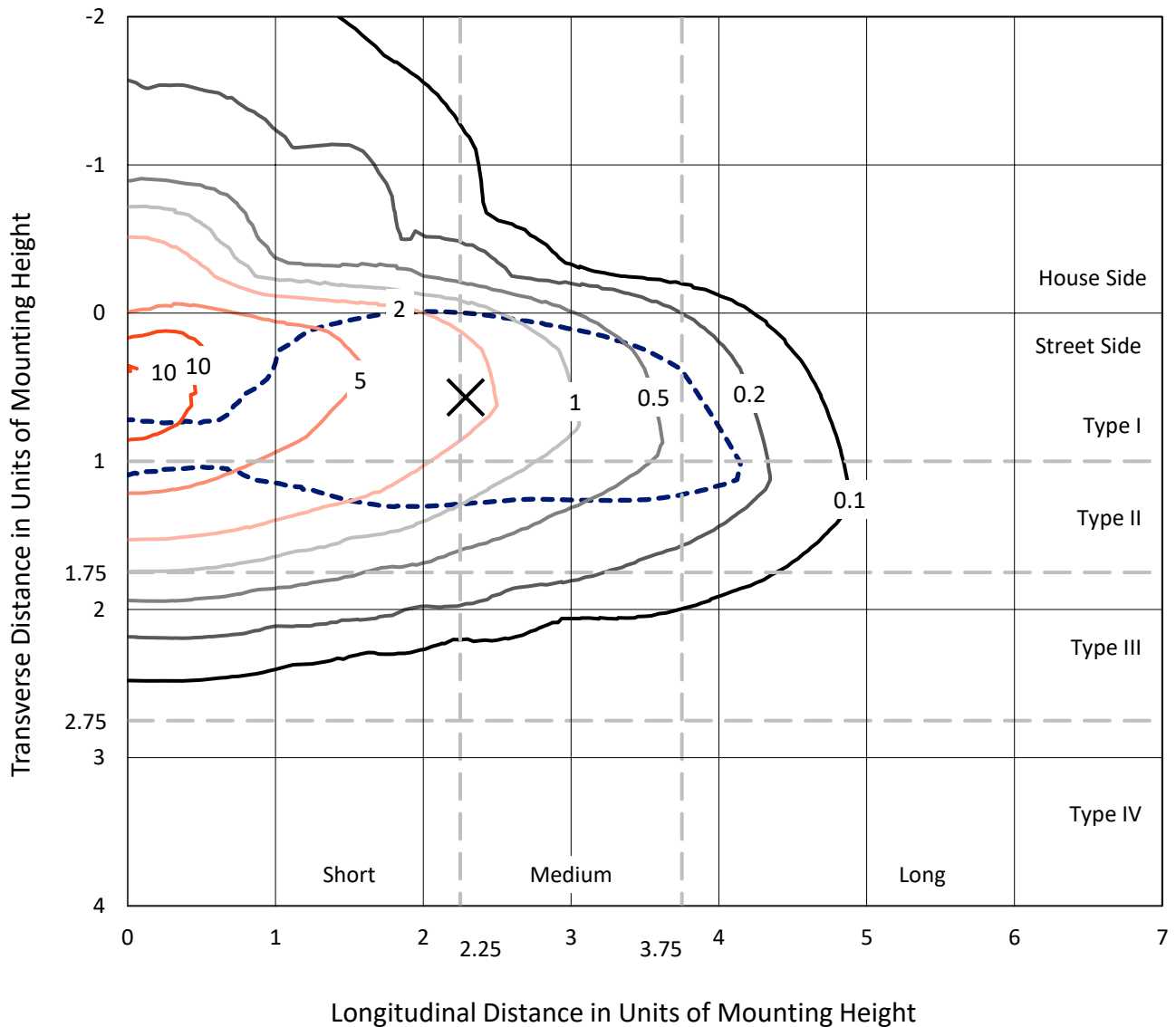
Lumens per Lamp: N/A
Luminaire Lumens: 44667.9 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6
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

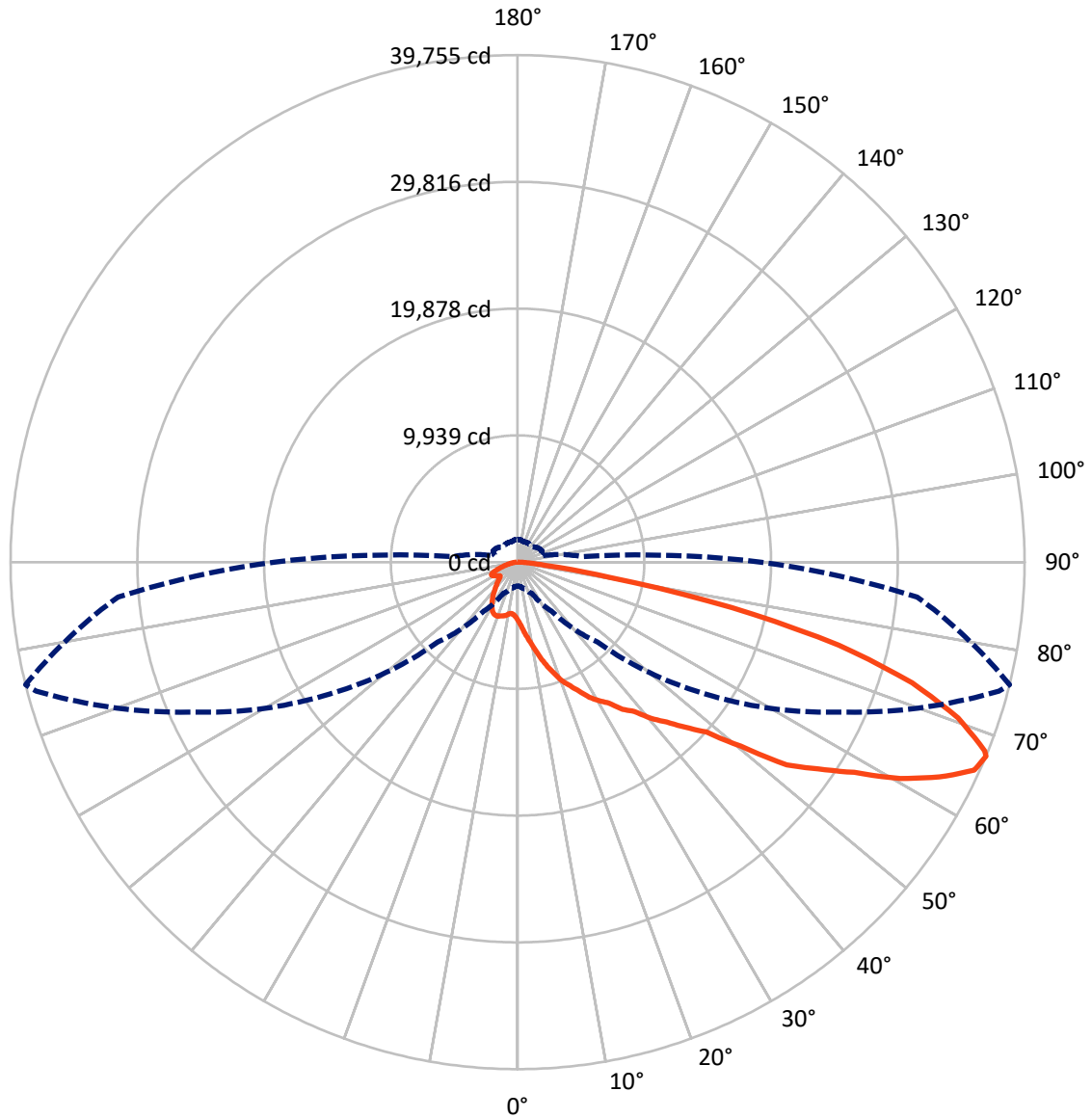
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6354.6	0.0	6354.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	38313.3	0.0	38313.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	44667.9	0.0	44667.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.5	1.2
10°-20°	1985.9	4.4
20°-30°	3692.0	8.3
30°-40°	5852.7	13.1
40°-50°	8094.8	18.1
50°-60°	9957.1	22.3
60°-70°	9265.5	20.7
70°-80°	4649.4	10.4
80°-90°	641.1	1.4
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°	44667.9	100.0
0°-180°	44667.9	100.0

Coefficient of Utilization



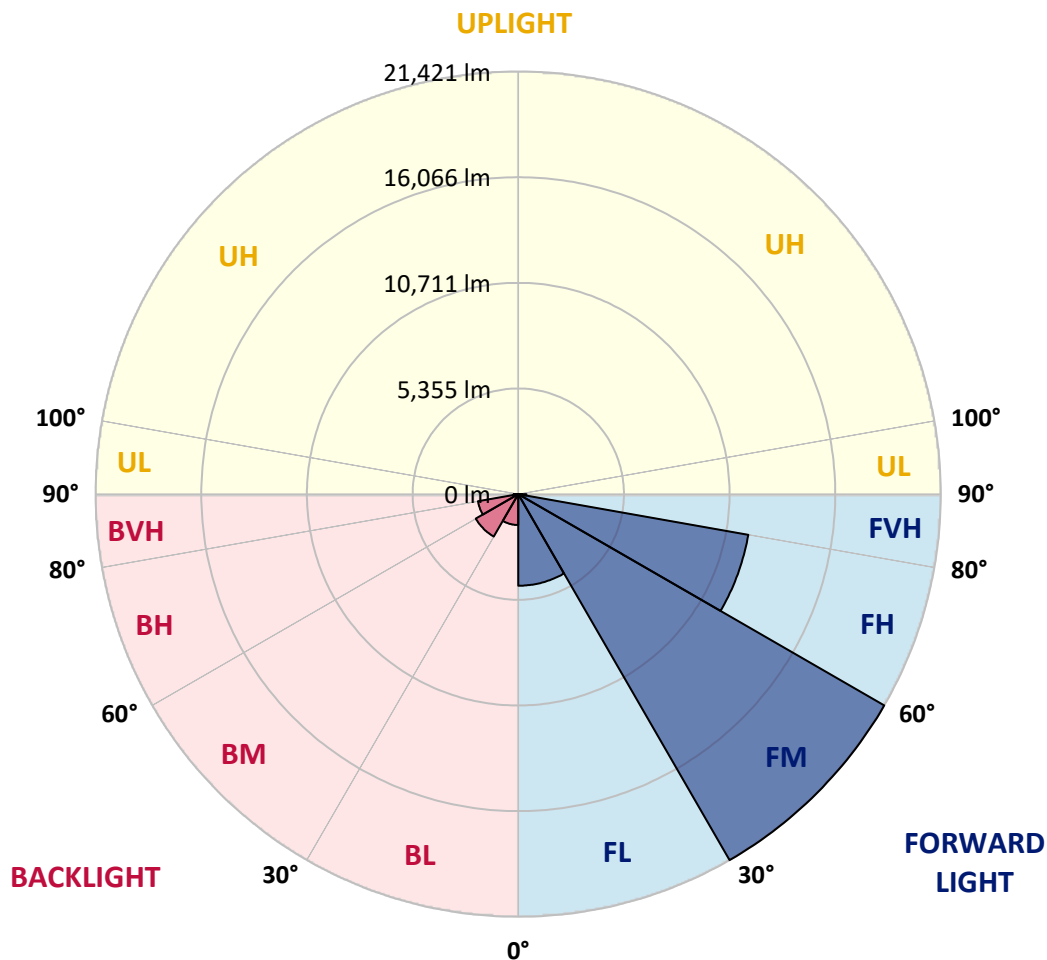
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4642.5	10.4			
FM (30°-60°)	21421.3	48.0			
FH (60°-80°)	11841.1	26.5			G4/12000
FVH (80°-90°)	408.4	0.9			G3/500
BL (0°-30°)	1564.9	3.5	B3/2500		
BM (30°-60°)	2483.2	5.6	B2/2500		
BH (60°-80°)	2073.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	232.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1
2.5°	6342.5	6266.1	6189.8	6026.9	5970.9	5818.2	5538.2	5227.7	4973.2	4937.6	4759.4
5°	7869.6	7757.6	7732.1	7640.5	7350.4	7055.1	6597.0	6098.2	5477.1	5523.0	4912.1
7.5°	9014.9	8948.7	8811.3	8724.7	8551.7	8159.7	7686.3	7024.6	6235.6	6082.9	5253.2
10°	9880.2	9788.6	9783.5	9707.2	9615.5	9213.4	8852.0	7961.2	6948.2	6739.5	5670.6
12.5°	10318.0	10302.7	10572.5	10572.5	10536.9	10368.9	9747.9	8933.4	7625.2	7554.0	6154.2
15°	10791.4	10664.1	10898.3	11076.5	11168.1	11254.6	10740.5	9880.2	8490.6	8353.2	6673.4
17.5°	10791.4	10781.2	11015.4	11310.6	11789.1	11901.1	11621.1	10750.7	9208.3	9106.5	7243.5
20°	10608.1	10755.8	10918.7	11315.7	11834.9	12287.9	12369.4	11641.5	10002.4	9921.0	7889.9
22.5°	11463.3	11320.8	11488.8	11641.5	12043.6	12730.8	12954.8	12425.4	10837.2	10526.7	8475.3
25°	12898.8	12802.1	12679.9	12455.9	12623.9	12924.2	13265.3	13005.7	11549.8	11203.7	9040.3
27.5°	14298.6	14303.7	14039.0	13550.3	13188.9	13250.0	13652.1	13514.7	12150.5	11997.8	9427.2
30°	16288.9	16166.7	15871.5	15209.8	14502.2	13921.9	13855.7	13988.1	12914.0	12618.8	9982.0
32.5°	17780.4	17805.8	17388.4	16436.5	15469.4	14996.0	14415.7	14471.7	13397.6	13178.7	10424.9
35°	18986.8	18956.2	18661.0	17872.0	16726.7	16156.6	15372.7	15052.0	14522.6	14176.4	11101.9
37.5°	20289.9	20040.4	19562.0	18671.2	17938.2	17149.2	16385.6	15662.8	15270.8	14853.4	11682.2
40°	20814.2	20814.2	20172.8	19765.6	18895.1	18299.6	17805.8	16467.1	16182.0	16100.6	12425.4
42.5°	20442.6	20671.6	20406.9	19943.7	19587.4	18834.0	18701.7	17301.9	17307.0	17144.1	13316.2
45°	20406.9	20091.3	19872.5	19989.5	19821.6	19780.8	20116.8	18457.4	18487.9	18467.5	14512.4
47.5°	19383.8	19241.3	19567.0	19760.5	19897.9	20529.1	21496.3	19836.8	20055.7	19903.0	15891.9
50°	18365.7	18340.3	18543.9	19246.4	19841.9	20880.3	22809.6	21964.6	22682.3	22672.1	18391.2
52.5°	15576.3	15846.0	16645.2	18131.6	19602.7	21358.8	23802.2	24682.8	26052.1	26423.7	20462.9
55°	12909.0	12766.4	13947.4	16105.7	18559.2	21547.2	24911.8	26316.8	28332.5	28602.3	22590.7
57.5°	10043.1	10307.8	11239.3	13311.1	16400.9	20615.6	25726.3	27930.4	30908.2	31116.9	25059.5
60°	7492.9	7528.5	8551.7	10221.3	13530.0	18513.4	25991.0	29584.7	33860.6	34456.1	27645.3
62.5°	4713.6	4927.4	5706.2	7350.4	10185.7	15571.2	24804.9	30587.5	36955.4	37113.2	30251.5
65°	2540.1	2677.5	3262.9	4296.2	7116.2	11778.9	21659.1	29986.8	38411.3	39347.9	31412.1
67°	1878.3	1903.8	2173.6	2743.7	4759.4	8867.3	18060.3	27813.3	39073.0	39755.1	31457.9
67.5°	1761.2	1796.9	2010.7	2463.7	4219.8	8164.8	17118.6	27039.6	38777.8	39510.8	31101.6
70°	1506.7	1516.9	1567.8	1695.1	2367.0	4912.1	11656.7	22158.0	35942.5	36644.9	28602.3
72.5°	1338.7	1348.9	1369.3	1394.7	1603.4	2840.4	7090.8	17052.4	31239.1	32358.9	24677.7
75°	1175.9	1211.5	1221.7	1201.3	1364.2	1847.8	3771.9	12532.3	25481.9	26026.6	19190.4
77.5°	997.7	1013.0	1033.3	1053.7	1216.6	1379.5	1812.1	8460.0	17490.2	17159.3	10379.1
80°	839.9	845.0	860.3	875.5	1053.7	1053.7	1028.2	4571.1	7640.5	7304.6	3507.2
82.5°	600.7	636.3	671.9	712.6	875.5	707.5	671.9	2036.1	2417.9	2300.8	1186.0
85°	234.2	285.1	442.9	488.7	554.8	381.8	447.9	880.6	1007.9	997.7	442.9
87.5°	40.7	45.8	122.2	188.3	203.6	132.3	213.8	315.6	376.7	407.2	162.9
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°	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1	4571.1
2.5°	4611.8	4454.0	4265.7	4077.3	3955.1	3761.7	3746.4	3629.4	3614.1	3573.4	3593.7
5°	4647.4	4459.1	4077.3	3777.0	3639.6	3527.6	3553.0	3502.1	3486.8	3461.4	3420.7
7.5°	4927.4	4555.8	3985.7	3726.1	3624.3	3573.4	3573.4	3512.3	3466.5	3497.0	3527.6
10°	5110.6	4601.6	4057.0	3797.4	3715.9	3603.9	3644.6	3568.3	3593.7	3532.7	3532.7
12.5°	5405.9	4861.2	4204.6	3904.2	3771.9	3670.1	3710.8	3624.3	3603.9	3609.0	3593.7
15°	5802.9	5034.3	4270.7	3965.3	3873.7	3746.4	3715.9	3639.6	3563.2	3537.7	3568.3
17.5°	6174.5	5248.1	4316.6	4001.0	3853.3	3710.8	3675.2	3578.5	3553.0	3476.7	3415.6
20°	6617.4	5502.6	4377.6	4031.5	3777.0	3634.5	3542.8	3446.1	3359.6	3313.8	3334.1
22.5°	6912.6	5634.9	4408.2	3970.4	3665.0	3532.7	3339.2	3273.1	3150.9	3100.0	3059.3
25°	7396.2	5797.8	4331.8	3802.4	3466.5	3252.7	3079.6	2988.0	2901.5	2835.3	2814.9
27.5°	7518.3	5920.0	4153.7	3517.4	3150.9	2926.9	2779.3	2667.3	2611.3	2509.5	2489.1
30°	7874.7	5797.8	3889.0	3171.2	2850.6	2621.5	2473.9	2392.4	2260.1	2234.6	2178.6
32.5°	8103.7	5833.5	3553.0	2835.3	2504.4	2300.8	2204.1	2122.6	2087.0	1964.8	1934.3
35°	8485.5	5711.3	3212.0	2524.8	2219.4	2061.6	1980.1	1954.7	1837.6	1781.6	1730.7
37.5°	8729.8	5640.0	2870.9	2173.6	1908.9	1842.7	1868.1	1761.2	1618.7	1511.8	1476.2
40°	9157.4	5614.6	2484.1	1883.4	1695.1	1679.8	1761.2	1557.6	1298.0	1206.4	1155.5
42.5°	9773.3	5441.5	2183.7	1623.8	1527.1	1593.3	1608.5	1298.0	1150.4	1074.0	1038.4
45°	10363.8	5477.1	1888.5	1343.8	1328.6	1425.3	1389.6	1099.5	1013.0	957.0	987.5
47.5°	11498.9	5655.3	1598.3	1119.9	1196.2	1287.8	1079.1	982.4	901.0	860.3	865.3
50°	13255.1	5828.4	1343.8	1023.1	1130.0	1165.7	926.4	890.8	885.7	804.3	799.2
52.5°	14308.8	5762.2	1298.0	1145.3	1211.5	1165.7	1007.9	982.4	941.7	906.1	865.3
55°	15983.5	5955.6	1394.7	1338.7	1374.4	1119.9	1130.0	1119.9	1089.3	997.7	1023.1
57.5°	17317.1	6082.9	1522.0	1496.5	1476.2	1165.7	1180.9	1186.0	1165.7	1125.0	1160.6
60°	19149.6	6337.4	1654.3	1659.4	1664.5	1267.5	1292.9	1323.5	1318.4	1303.1	1313.3
62.5°	20274.6	6220.3	1802.0	1883.4	1858.0	1476.2	1471.1	1491.5	1491.5	1516.9	1532.2
65°	20106.6	5787.7	1878.3	2081.9	1949.6	1628.9	1628.9	1639.1	1644.2	1695.1	1700.2
67°	19098.7	5013.9	1837.6	2112.5	1949.6	1690.0	1690.0	1700.2	1664.5	1796.9	1756.1
67.5°	18630.4	4784.9	1802.0	2087.0	1934.3	1684.9	1684.9	1690.0	1659.4	1786.7	1746.0
70°	16202.4	3553.0	1552.5	1847.8	1791.8	1639.1	1639.1	1608.5	1583.1	1751.1	1715.4
72.5°	13830.3	2580.8	1247.1	1572.9	1618.7	1578.0	1588.2	1511.8	1440.5	1557.6	1527.1
75°	10592.9	1898.7	972.2	1211.5	1369.3	1476.2	1542.4	1348.9	1257.3	1287.8	1231.8
77.5°	5909.8	1236.9	768.6	895.9	1043.5	1374.4	1481.3	1216.6	1028.2	992.6	992.6
80°	2005.6	722.8	565.0	666.8	717.7	1216.6	1384.6	987.5	809.4	773.7	748.3
82.5°	758.5	442.9	386.9	458.1	458.1	962.1	1130.0	758.5	610.8	789.0	804.3
85°	346.1	264.7	254.5	264.7	264.7	590.5	799.2	493.8	549.8	473.4	417.4
87.5°	137.4	127.3	117.1	112.0	91.6	101.8	274.9	132.3	249.4	66.2	61.1
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)