

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: P477018

Luminaire Tested: **IFLD-L-SA8C-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477018
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

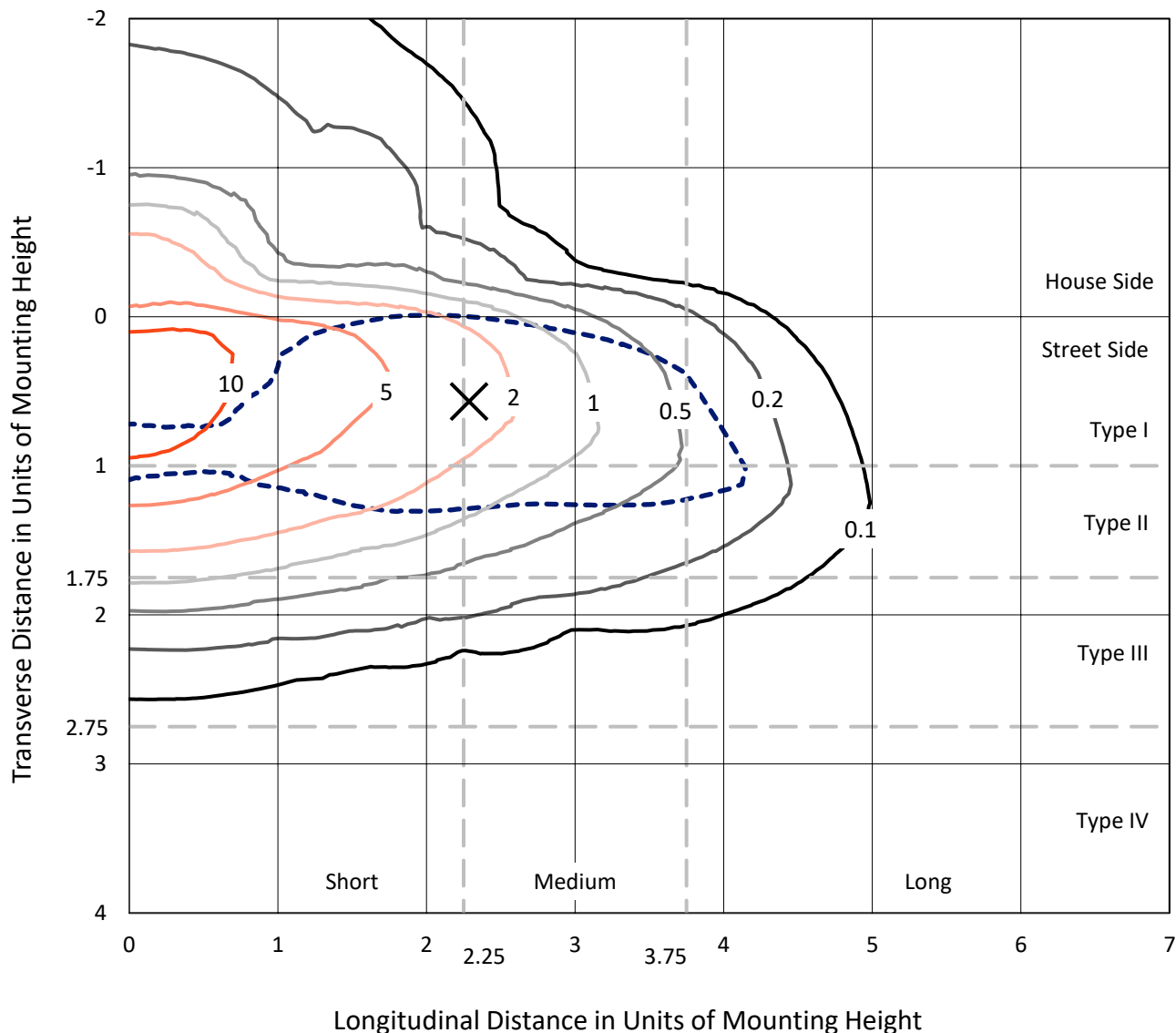
Lumens per Lamp: N/A
Luminaire Lumens: 50948.7 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

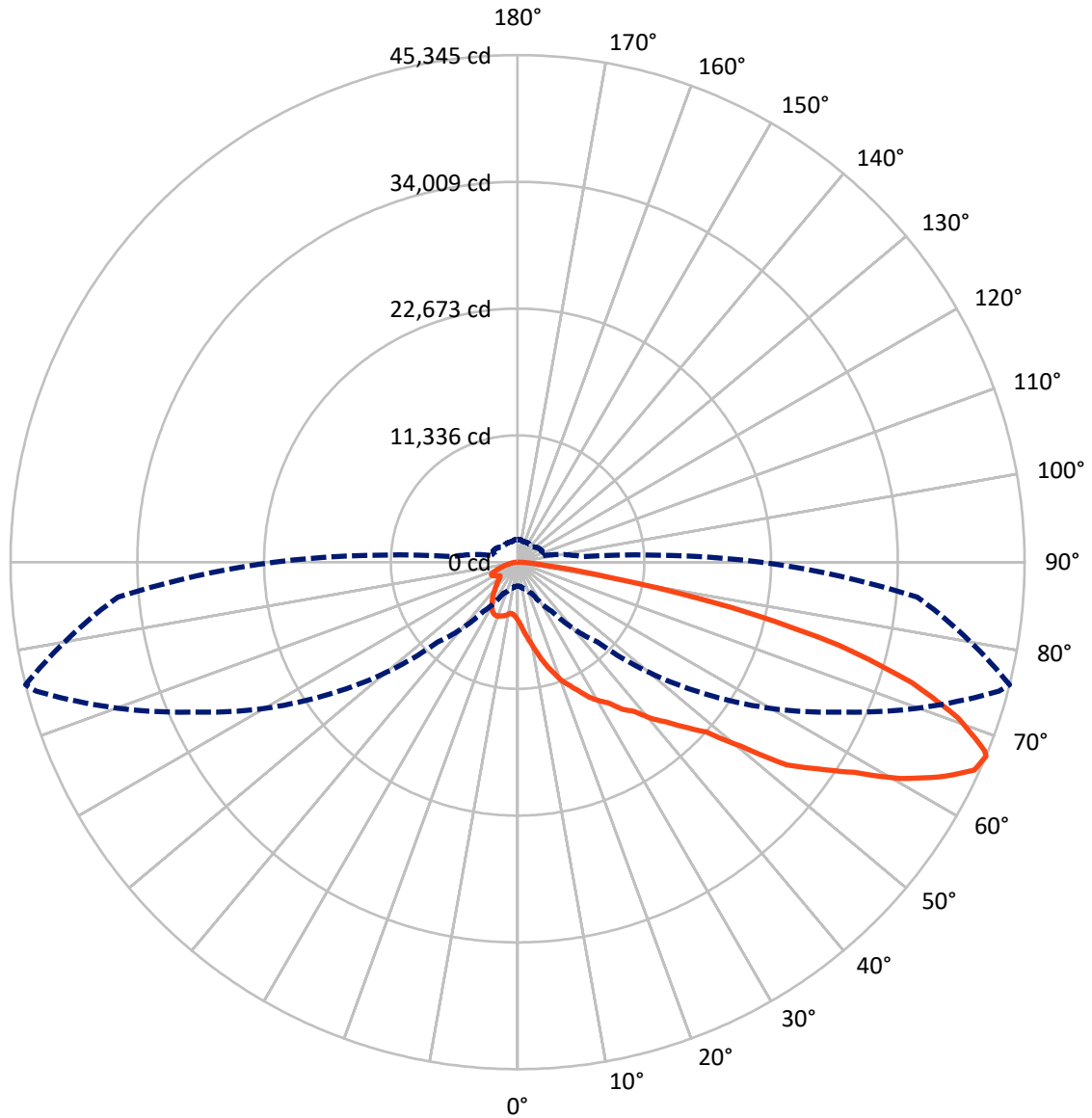
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 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	7248.1	0.0	7248.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	43700.6	0.0	43700.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	50948.7	0.0	50948.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.9	1.2
10°-20°	2265.1	4.4
20°-30°	4211.2	8.3
30°-40°	6675.6	13.1
40°-50°	9233.0	18.1
50°-60°	11357.2	22.3
60°-70°	10568.4	20.7
70°-80°	5303.1	10.4
80°-90°	731.2	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°	50948.7	100.0
0°-180°	50948.7	100.0

Coefficient of Utilization



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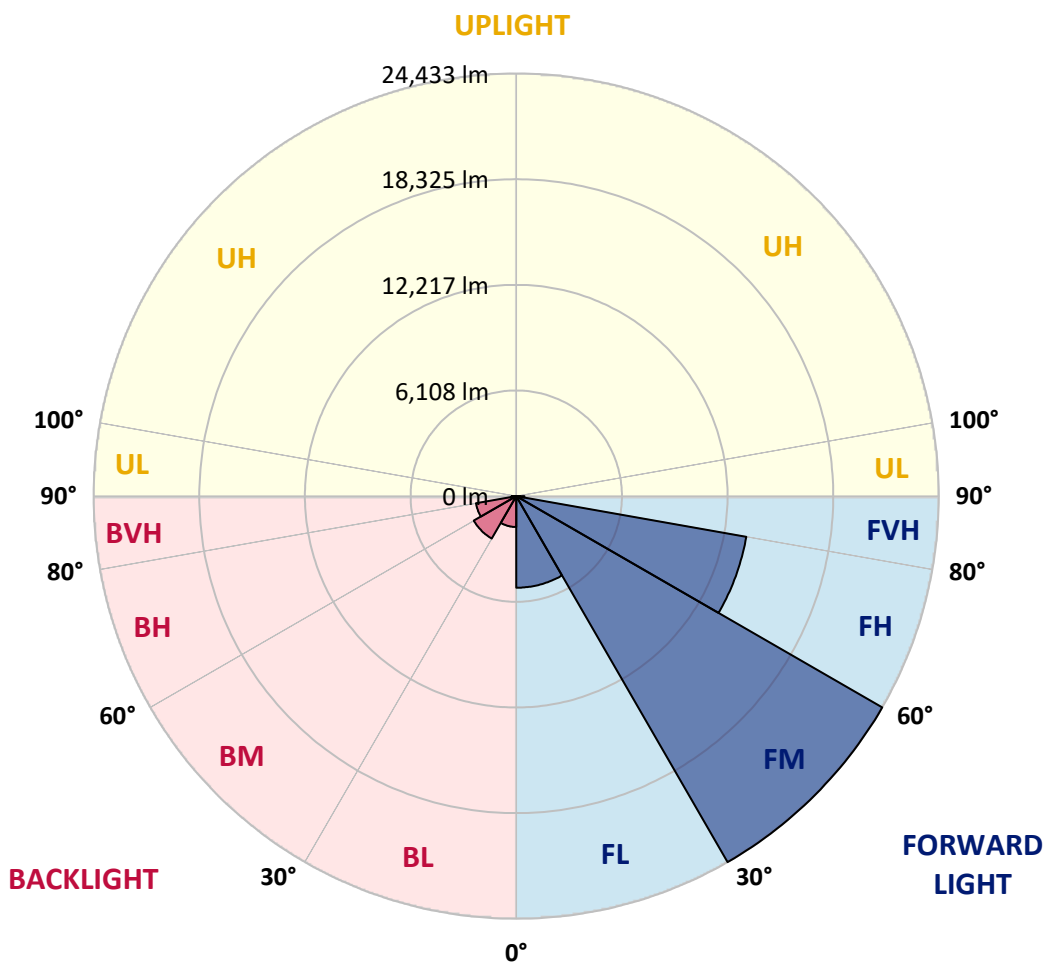
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5295.3	10.4			
FM (30°-60°)	24433.4	48.0			
FH (60°-80°)	13506.1	26.5			G5
FVH (80°-90°)	465.9	0.9			G3/500
BL (0°-30°)	1784.9	3.5	B3/2500		
BM (30°-60°)	2832.4	5.6	B3/5000		
BH (60°-80°)	2365.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	265.3	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8
2.5°	7234.3	7147.2	7060.1	6874.3	6810.5	6636.3	6317.0	5962.8	5672.5	5631.9	5428.6
5°	8976.1	8848.4	8819.4	8714.9	8383.9	8047.2	7524.6	6955.6	6247.3	6299.6	5602.8
7.5°	10282.5	10207.0	10050.3	9951.5	9754.1	9307.1	8767.1	8012.3	7112.4	6938.2	5991.8
10°	11269.5	11165.0	11159.2	11072.1	10967.6	10508.9	10096.7	9080.6	7925.2	7687.2	6467.9
12.5°	11768.8	11751.4	12059.1	12059.1	12018.5	11826.9	11118.6	10189.6	8697.4	8616.2	7019.5
15°	12308.8	12163.6	12430.7	12633.9	12738.4	12837.2	12250.7	11269.5	9684.5	9527.7	7611.7
17.5°	12308.8	12297.2	12564.3	12901.0	13446.8	13574.5	13255.2	12262.4	10503.1	10387.0	8262.0
20°	12099.8	12268.2	12454.0	12906.8	13499.0	14015.8	14108.7	13278.4	11408.9	11316.0	8999.4
22.5°	13075.2	12912.6	13104.2	13278.4	13737.1	14520.9	14776.4	14172.5	12361.1	12006.9	9667.1
25°	14712.5	14602.2	14462.8	14207.4	14399.0	14741.5	15130.5	14834.4	13173.9	12779.1	10311.5
27.5°	16309.2	16315.0	16013.1	15455.7	15043.4	15113.1	15571.8	15415.0	13859.0	13684.8	10752.8
30°	18579.3	18440.0	18103.2	17348.4	16541.4	15879.5	15804.0	15955.0	14729.9	14393.2	11385.6
32.5°	20280.5	20309.5	19833.4	18747.7	17644.5	17104.6	16442.7	16506.6	15281.5	15031.8	11890.8
35°	21656.5	21621.7	21284.9	20385.0	19078.6	18428.4	17534.2	17168.5	16564.6	16169.8	12663.0
37.5°	23142.9	22858.4	22312.6	21296.5	20460.5	19560.5	18689.6	17865.2	17418.1	16942.0	13324.9
40°	23740.9	23740.9	23009.3	22544.8	21552.0	20872.7	20309.5	18782.5	18457.4	18364.5	14172.5
42.5°	23317.0	23578.3	23276.4	22748.1	22341.6	21482.3	21331.4	19734.7	19740.5	19554.7	15188.6
45°	23276.4	22916.4	22666.8	22800.3	22608.7	22562.3	22945.5	21052.7	21087.5	21064.3	16553.0
47.5°	22109.4	21946.8	22318.4	22539.0	22695.8	23415.8	24518.9	22626.1	22875.8	22701.6	18126.5
50°	20948.2	20919.2	21151.4	21952.6	22631.9	23816.4	26016.9	25053.1	25871.7	25860.1	20977.2
52.5°	17766.5	18074.2	18985.7	20681.1	22359.1	24362.1	27149.0	28153.5	29715.3	30139.1	23340.3
55°	14724.1	14561.5	15908.5	18370.3	21168.8	24577.0	28414.8	30017.2	32316.4	32624.1	25767.2
57.5°	11455.3	11757.2	12819.7	15182.8	18707.1	23514.5	29343.7	31857.7	35254.3	35492.3	28583.1
60°	8546.5	8587.1	9754.1	11658.5	15432.4	21116.6	29645.6	33744.7	38621.8	39301.1	31532.6
62.5°	5376.4	5620.2	6508.6	8383.9	11617.9	17760.7	28292.8	34888.5	42151.8	42331.8	34505.3
65°	2897.2	3054.0	3721.7	4900.3	8116.8	13435.2	24704.7	34203.4	43812.4	44880.7	35829.1
67°	2142.4	2171.5	2479.2	3129.5	5428.6	10114.1	20599.8	31724.2	44567.1	45345.2	35881.3
67.5°	2008.9	2049.5	2293.4	2810.1	4813.2	9312.9	19525.7	30841.7	44230.4	45066.5	35474.9
70°	1718.6	1730.2	1788.3	1933.4	2699.8	5602.8	13295.8	25273.7	40996.4	41797.7	32624.1
72.5°	1527.0	1538.6	1561.8	1590.9	1828.9	3239.8	8087.8	19450.2	35631.7	36909.0	28147.7
75°	1341.2	1381.8	1393.4	1370.2	1556.0	2107.6	4302.3	14294.5	29065.0	29686.3	21888.8
77.5°	1138.0	1155.4	1178.6	1201.8	1387.6	1573.4	2066.9	9649.6	19949.5	19572.2	11838.5
80°	958.0	963.8	981.2	998.6	1201.8	1201.8	1172.8	5213.8	8714.9	8331.7	4000.4
82.5°	685.1	725.8	766.4	812.8	998.6	807.0	766.4	2322.4	2757.9	2624.3	1352.8
85°	267.1	325.1	505.1	557.4	632.9	435.5	510.9	1004.4	1149.6	1138.0	505.1
87.5°	46.4	52.3	139.3	214.8	232.2	151.0	243.9	360.0	429.6	464.5	185.8
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°	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8	5213.8
2.5°	5260.3	5080.3	4865.5	4650.6	4511.3	4290.7	4273.2	4139.7	4122.3	4075.8	4099.1
5°	5300.9	5086.1	4650.6	4308.1	4151.3	4023.6	4052.6	3994.6	3977.1	3948.1	3901.7
7.5°	5620.2	5196.4	4546.1	4250.0	4133.9	4075.8	4075.8	4006.2	3953.9	3988.7	4023.6
10°	5829.3	5248.7	4627.4	4331.3	4238.4	4110.7	4157.1	4070.0	4099.1	4029.4	4029.4
12.5°	6166.0	5544.8	4795.8	4453.2	4302.3	4186.2	4232.6	4133.9	4110.7	4116.5	4099.1
15°	6618.9	5742.2	4871.3	4522.9	4418.4	4273.2	4238.4	4151.3	4064.2	4035.2	4070.0
17.5°	7042.7	5986.0	4923.5	4563.5	4395.2	4232.6	4192.0	4081.6	4052.6	3965.5	3895.9
20°	7547.8	6276.3	4993.2	4598.4	4308.1	4145.5	4041.0	3930.7	3832.0	3779.7	3803.0
22.5°	7884.6	6427.3	5028.0	4528.7	4180.3	4029.4	3808.8	3733.3	3593.9	3535.9	3489.4
25°	8436.2	6613.1	4940.9	4337.1	3953.9	3710.1	3512.7	3408.1	3309.4	3234.0	3210.7
27.5°	8575.5	6752.4	4737.7	4012.0	3593.9	3338.5	3170.1	3042.4	2978.5	2862.4	2839.2
30°	8981.9	6613.1	4435.8	3617.2	3251.4	2990.1	2821.7	2728.8	2577.9	2548.9	2485.0
32.5°	9243.2	6653.7	4052.6	3234.0	2856.6	2624.3	2514.0	2421.1	2380.5	2241.1	2206.3
35°	9678.7	6514.4	3663.6	2879.8	2531.4	2351.4	2258.5	2229.5	2096.0	2032.1	1974.1
37.5°	9957.4	6433.1	3274.6	2479.2	2177.3	2101.8	2130.8	2008.9	1846.3	1724.4	1683.8
40°	10445.1	6404.1	2833.3	2148.2	1933.4	1916.0	2008.9	1776.6	1480.5	1376.0	1318.0
42.5°	11147.6	6206.7	2490.8	1852.1	1741.8	1817.3	1834.7	1480.5	1312.2	1225.1	1184.4
45°	11821.1	6247.3	2154.0	1532.8	1515.4	1625.7	1585.0	1254.1	1155.4	1091.5	1126.4
47.5°	13115.8	6450.5	1823.1	1277.3	1364.4	1468.9	1230.9	1120.6	1027.7	981.2	987.0
50°	15118.9	6647.9	1532.8	1167.0	1288.9	1329.6	1056.7	1016.1	1010.3	917.4	911.5
52.5°	16320.8	6572.4	1480.5	1306.4	1381.8	1329.6	1149.6	1120.6	1074.1	1033.5	987.0
55°	18231.0	6793.1	1590.9	1527.0	1567.6	1277.3	1288.9	1277.3	1242.5	1138.0	1167.0
57.5°	19752.1	6938.2	1736.0	1707.0	1683.8	1329.6	1347.0	1352.8	1329.6	1283.1	1323.8
60°	21842.3	7228.5	1887.0	1892.8	1898.6	1445.7	1474.7	1509.6	1503.8	1486.3	1498.0
62.5°	23125.4	7095.0	2055.3	2148.2	2119.2	1683.8	1677.9	1701.2	1701.2	1730.2	1747.6
65°	22933.9	6601.5	2142.4	2374.7	2223.7	1857.9	1857.9	1869.5	1875.4	1933.4	1939.2
67°	21784.3	5718.9	2096.0	2409.5	2223.7	1927.6	1927.6	1939.2	1898.6	2049.5	2003.1
67.5°	21250.1	5457.7	2055.3	2380.5	2206.3	1921.8	1921.8	1927.6	1892.8	2037.9	1991.5
70°	18480.6	4052.6	1770.8	2107.6	2043.7	1869.5	1869.5	1834.7	1805.7	1997.3	1956.6
72.5°	15775.0	2943.7	1422.5	1794.1	1846.3	1799.9	1811.5	1724.4	1643.1	1776.6	1741.8
75°	12082.4	2165.7	1109.0	1381.8	1561.8	1683.8	1759.2	1538.6	1434.1	1468.9	1405.1
77.5°	6740.8	1410.9	876.7	1021.9	1190.2	1567.6	1689.6	1387.6	1172.8	1132.2	1132.2
80°	2287.6	824.5	644.5	760.6	818.7	1387.6	1579.2	1126.4	923.2	882.5	853.5
82.5°	865.1	505.1	441.3	522.5	522.5	1097.3	1288.9	865.1	696.7	899.9	917.4
85°	394.8	301.9	290.3	301.9	301.9	673.5	911.5	563.2	627.1	540.0	476.1
87.5°	156.8	145.2	133.5	127.7	104.5	116.1	313.5	151.0	284.5	75.5	69.7
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)