

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: P476495

Luminaire Tested: **IFLD-S-SA6B-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476495
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

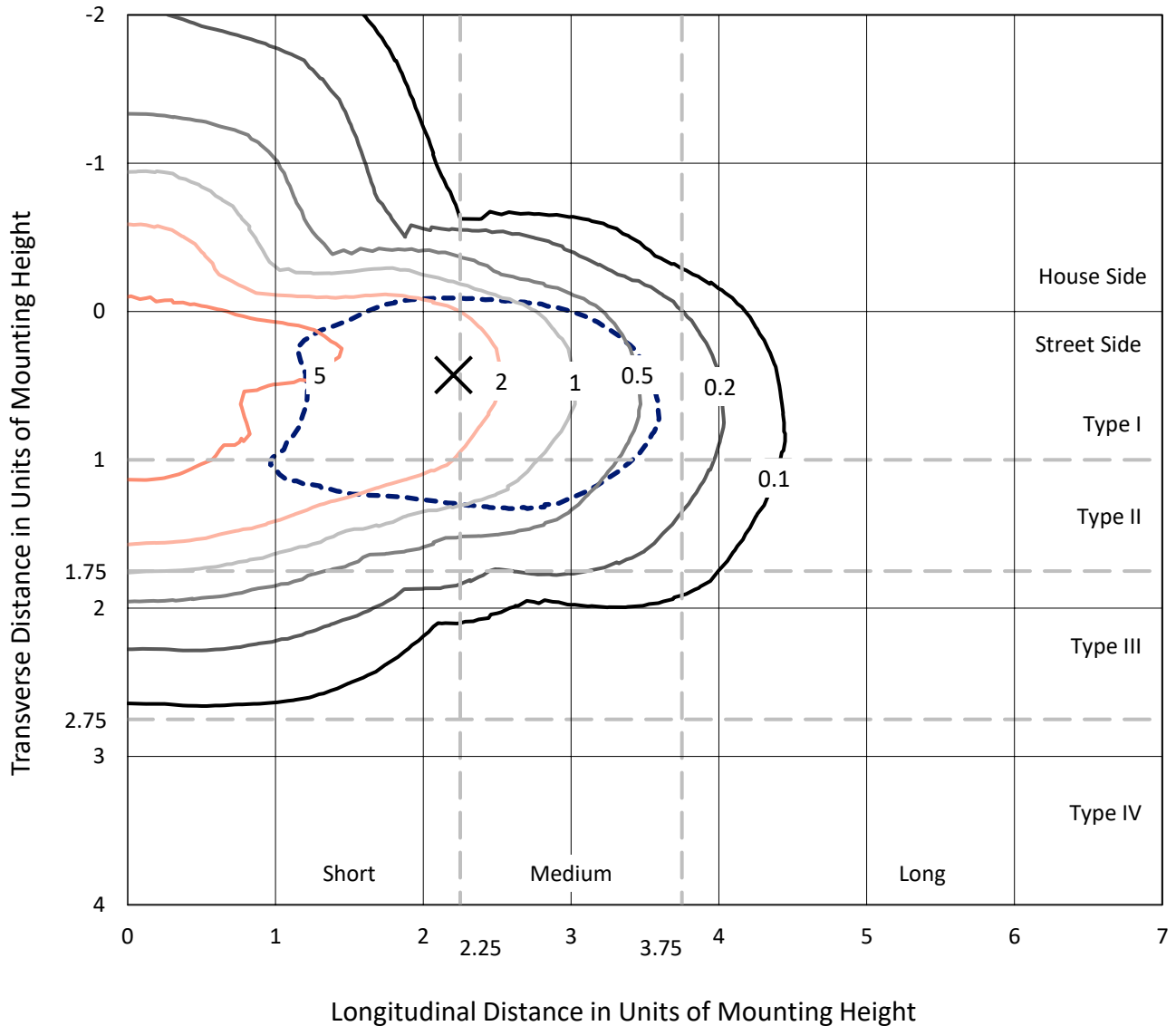
Lumens per Lamp: N/A
Luminaire Lumens: 27881.7 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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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Iso-Footcandle Lines of Horizontal Illumination

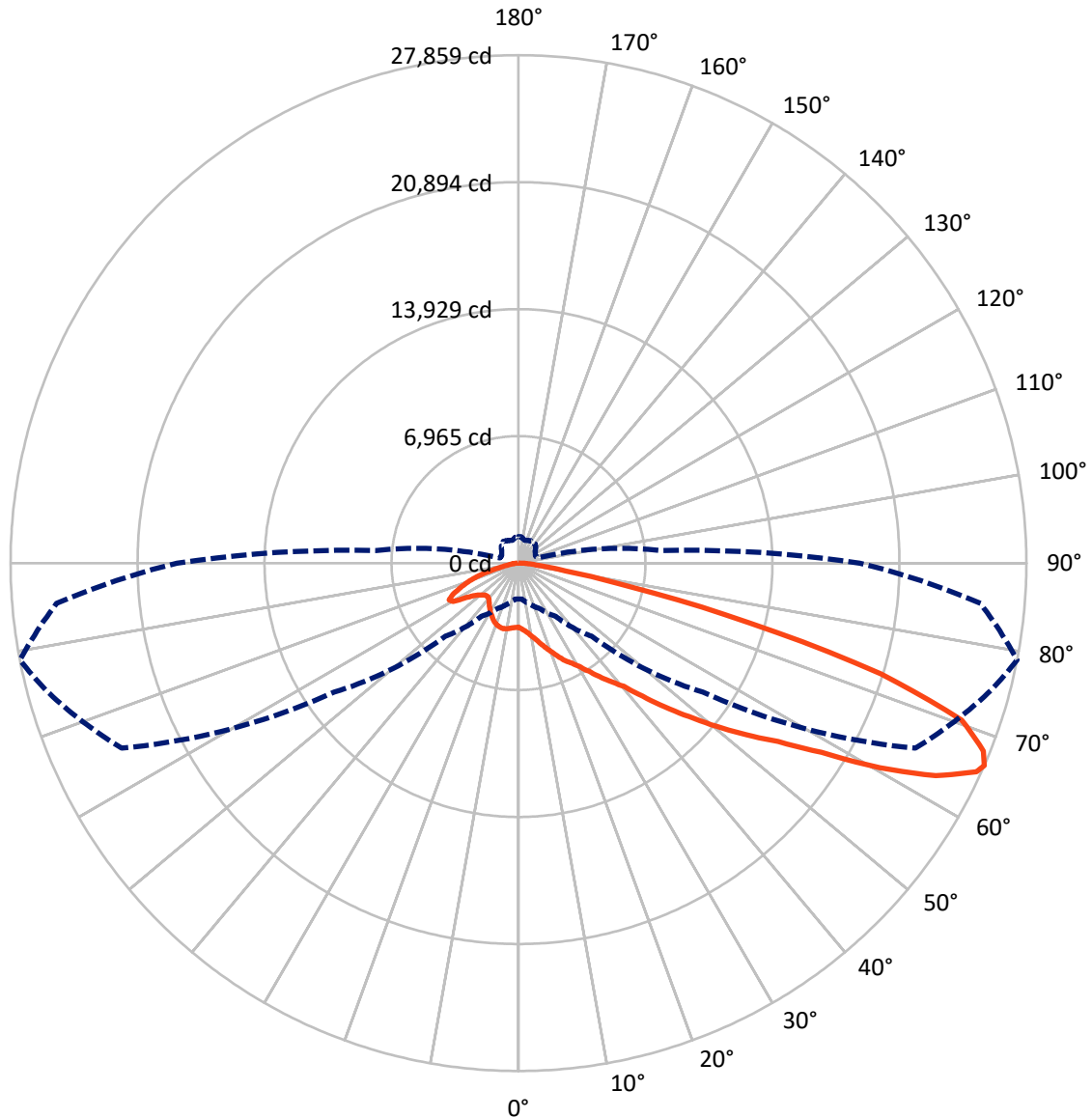
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5630.3	0.0	5630.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	22251.4	0.0	22251.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	27881.7	0.0	27881.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.2	1.2
10°-20°	1069.0	3.8
20°-30°	1835.0	6.6
30°-40°	2834.7	10.2
40°-50°	4540.5	16.3
50°-60°	6779.2	24.3
60°-70°	6965.7	25.0
70°-80°	3087.8	11.1
80°-90°	423.7	1.5
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°	27881.7	100.0
0°-180°	27881.7	100.0



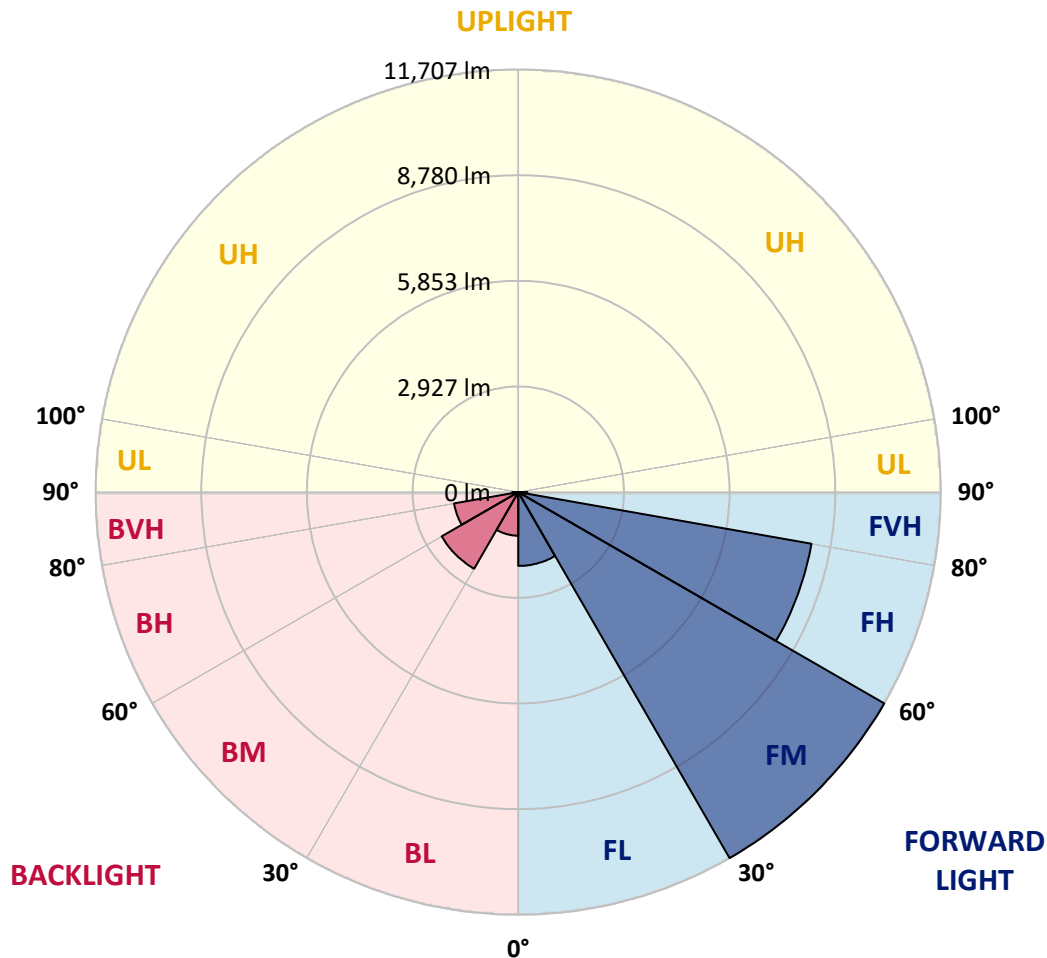
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2043.9	7.3			
FM (30°-60°)	11706.6	42.0			
FH (60°-80°)	8246.8	29.6			G4/12000
FVH (80°-90°)	254.1	0.9			G3/500
BL (0°-30°)	1206.3	4.3	B3/2500		
BM (30°-60°)	2447.8	8.8	B2/2500		
BH (60°-80°)	1806.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	169.6	0.6			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7
2.5°	3744.6	3747.6	3747.6	3735.4	3738.4	3747.6	3713.9	3640.3	3640.3	3628.0	3606.6
5°	3974.6	3959.2	3937.8	3940.8	3928.6	3928.6	3891.8	3821.2	3759.9	3735.4	3671.0
7.5°	4005.2	4020.6	4017.5	4054.3	4072.7	4072.7	4091.1	4032.8	3940.8	3882.6	3818.2
10°	4066.6	4026.7	4023.6	4109.5	4137.1	4201.5	4275.1	4244.5	4167.8	4085.0	3999.1
12.5°	4103.4	4127.9	4127.9	4170.9	4235.3	4330.3	4459.1	4517.4	4397.8	4311.9	4180.1
15°	4158.6	4124.8	4223.0	4259.8	4382.5	4449.9	4633.9	4784.2	4704.5	4600.2	4391.7
17.5°	4183.1	4161.7	4216.9	4284.3	4492.9	4594.1	4817.9	5026.5	4959.0	4891.6	4676.9
20°	4308.9	4305.8	4330.3	4385.5	4535.8	4735.1	5014.2	5302.5	5327.0	5204.4	4913.0
22.5°	4615.5	4575.7	4575.7	4554.2	4618.6	4824.1	5201.3	5600.0	5710.4	5566.2	5179.8
25°	4897.7	4952.9	4919.2	4821.0	4796.5	4903.8	5336.2	5915.9	6063.1	5928.1	5541.7
27.5°	5259.6	5278.0	5336.2	5204.4	5035.7	5069.4	5483.4	6093.7	6397.4	6216.4	5747.2
30°	5780.9	5747.2	5734.9	5587.7	5366.9	5320.9	5652.1	6354.4	6835.9	6581.4	5989.5
32.5°	6133.6	6216.4	6213.3	6010.9	5744.1	5642.9	5860.7	6599.8	7305.1	7069.0	6437.2
35°	6832.8	6918.7	6851.2	6553.8	6240.9	6038.5	6161.2	6918.7	7841.8	7657.8	6817.5
37.5°	7725.3	7927.7	7783.5	7234.6	6793.0	6572.2	6578.3	7265.3	8390.8	8240.5	7225.4
40°	8341.7	8614.6	8415.3	7900.1	7430.9	7222.3	7139.5	7676.2	9047.1	8887.6	7863.3
42.5°	9105.3	9332.3	9228.0	8718.9	8170.0	7992.1	7826.5	8363.2	10049.9	9976.3	8682.1
45°	9939.5	10046.8	10013.1	9691.1	9080.8	9019.5	8654.5	9267.9	11230.6	11261.3	9706.4
47.5°	10715.4	10773.7	10838.1	10605.0	10224.7	10276.9	9608.3	10237.0	12377.6	12580.0	10847.3
50°	10914.8	11114.1	11264.4	11420.8	11503.6	11856.3	10660.2	11426.9	13696.3	14088.9	12116.9
52.5°	10712.3	10697.0	11154.0	11644.6	12472.7	13211.8	12092.4	12905.1	14861.7	15637.6	13279.3
55°	9792.3	9761.6	10497.7	11147.8	12764.0	13966.2	14138.0	14874.0	16269.4	17278.4	14852.5
57.5°	8182.2	7992.1	8795.6	9862.8	12132.3	14049.0	16192.7	17796.7	18434.6	19584.6	17253.8
60°	5498.8	5419.0	6188.8	7461.5	9850.6	12874.4	17422.5	21455.4	21486.0	22780.2	20980.0
62.5°	3385.8	3401.1	3894.8	4848.6	6897.2	10206.3	16891.9	24378.0	24384.1	25681.4	24046.8
65°	2214.2	2223.4	2622.1	3149.6	4308.9	6921.8	13969.3	24608.0	26399.0	27604.3	25451.4
66°	1972.0	1975.0	2318.5	2747.9	3569.8	5664.4	12337.7	24010.0	26852.9	27858.8	25433.0
67.5°	1662.2	1702.1	1978.1	2309.3	2784.7	4069.6	9789.2	22280.3	26619.8	27503.1	24856.4
70°	1300.3	1321.8	1539.5	1876.9	2088.5	2355.3	5817.7	18161.6	24365.7	25797.9	22758.7
72.5°	1042.7	1061.1	1226.7	1524.2	1695.9	1551.8	3168.0	13178.1	19247.3	20774.5	17900.9
75°	880.2	883.2	963.0	1199.1	1395.4	1165.4	1686.7	8458.2	12350.0	13061.5	10966.9
77.5°	711.5	723.8	779.0	913.9	1122.4	917.0	1005.9	4738.2	6201.1	6253.2	5069.4
80°	579.6	585.8	619.5	665.5	855.6	677.8	680.8	2312.4	2658.9	2597.6	2060.9
82.5°	457.0	463.1	503.0	493.8	628.7	484.6	423.2	1113.2	1223.7	1199.1	947.6
85°	257.6	257.6	395.6	395.6	398.7	306.7	257.6	524.4	647.1	604.2	444.7
87.5°	82.8	85.9	119.6	125.7	199.3	138.0	125.7	196.3	306.7	269.9	159.5
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°	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7	3520.7
2.5°	3594.3	3545.2	3523.8	3453.2	3434.8	3388.8	3367.3	3339.7	3330.5	3290.7	3327.5
5°	3621.9	3606.6	3520.7	3431.8	3364.3	3333.6	3287.6	3226.3	3220.1	3164.9	3158.8
7.5°	3738.4	3686.3	3536.0	3441.0	3306.0	3229.3	3128.1	3097.5	3057.6	3039.2	3079.1
10°	3919.4	3787.5	3563.6	3324.4	3158.8	3066.8	2993.2	2971.7	2974.8	2962.5	2944.1
12.5°	4048.2	3922.4	3517.6	3226.3	3011.6	2922.7	2916.5	2938.0	2971.7	2956.4	2977.9
15°	4232.2	3996.0	3483.9	3063.7	2892.0	2867.5	2864.4	2928.8	2925.7	2925.7	2922.7
17.5°	4403.9	4069.6	3361.2	2922.7	2766.3	2784.7	2806.1	2803.1	2833.7	2846.0	2867.5
20°	4621.7	4155.5	3189.5	2781.6	2671.2	2665.1	2662.0	2665.1	2695.7	2714.1	2698.8
22.5°	4811.8	4173.9	3045.3	2646.7	2557.7	2533.2	2493.3	2533.2	2517.8	2524.0	2542.4
25°	4977.4	4177.0	2839.9	2545.4	2444.2	2389.0	2358.4	2355.3	2327.7	2324.6	2324.6
27.5°	5115.4	4072.7	2658.9	2404.4	2309.3	2257.2	2254.1	2220.4	2149.8	2103.8	2110.0
30°	5222.8	3993.0	2533.2	2281.7	2189.7	2180.5	2152.9	2076.2	1984.2	1926.0	1926.0
32.5°	5412.9	3833.5	2361.4	2156.0	2110.0	2097.7	2033.3	1965.8	1879.9	1824.7	1815.5
35°	5554.0	3686.3	2248.0	2048.6	2027.2	2002.6	1947.4	1873.8	1849.3	1837.0	1846.2
37.5°	5713.5	3520.7	2110.0	1956.6	1978.1	1932.1	1867.7	1833.9	1919.8	1898.4	1907.6
40°	5968.0	3404.2	1975.0	1901.4	1922.9	1870.7	1787.9	1775.7	1883.0	1806.3	1787.9
42.5°	6434.2	3401.1	1892.2	1818.6	1833.9	1794.1	1720.5	1714.3	1757.3	1665.3	1637.7
45°	7013.8	3508.4	1830.9	1757.3	1745.0	1738.9	1714.3	1686.7	1649.9	1530.3	1499.7
47.5°	7706.9	3683.2	1818.6	1665.3	1680.6	1732.7	1702.1	1631.5	1536.5	1459.8	1444.5
50°	8547.2	4045.1	1787.9	1597.8	1625.4	1708.2	1683.7	1585.5	1499.7	1450.6	1441.4
52.5°	9476.4	4502.1	1748.1	1493.5	1554.9	1686.7	1699.0	1607.0	1481.3	1438.3	1432.2
55°	10571.3	5176.8	1702.1	1380.1	1472.1	1665.3	1699.0	1545.7	1456.7	1456.7	1450.6
57.5°	12733.4	6391.2	1607.0	1275.8	1398.5	1625.4	1649.9	1548.7	1459.8	1459.8	1447.5
60°	15904.4	8286.5	1426.1	1196.1	1327.9	1570.2	1613.1	1502.7	1426.1	1444.5	1441.4
62.5°	18385.5	8863.1	1272.7	1119.4	1257.4	1469.0	1564.1	1453.7	1386.2	1453.7	1459.8
65°	18916.0	8280.4	1116.3	1036.6	1159.3	1370.9	1493.5	1383.1	1327.9	1459.8	1465.9
66°	18725.9	7826.5	1061.1	1012.0	1116.3	1321.8	1450.6	1358.6	1297.3	1453.7	1456.7
67.5°	17879.5	7145.6	999.8	959.9	1058.0	1251.3	1401.5	1324.9	1248.2	1435.3	1407.7
70°	16039.4	6060.0	895.5	867.9	975.2	1134.7	1288.1	1239.0	1171.5	1321.8	1272.7
72.5°	12353.1	4842.5	785.1	788.2	880.2	1015.1	1174.6	1140.9	1082.6	1159.3	1128.6
75°	7522.9	3094.4	683.9	690.0	766.7	901.6	1067.2	1042.7	972.2	1015.1	999.8
77.5°	3333.6	1533.4	576.6	588.8	650.2	794.3	929.2	889.4	815.8	825.0	818.8
80°	1294.2	726.8	469.2	484.6	524.4	634.8	769.8	733.0	668.6	656.3	650.2
82.5°	622.6	404.8	361.9	368.0	383.4	506.0	662.4	616.4	530.6	475.4	475.4
85°	312.8	251.5	254.5	233.1	254.5	343.5	447.8	374.1	309.7	276.0	282.1
87.5°	125.7	125.7	125.7	107.3	113.5	162.5	208.5	141.1	128.8	76.7	76.7
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)