

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: P476778

Luminaire Tested: **IFLD-L-SA7B-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476778
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

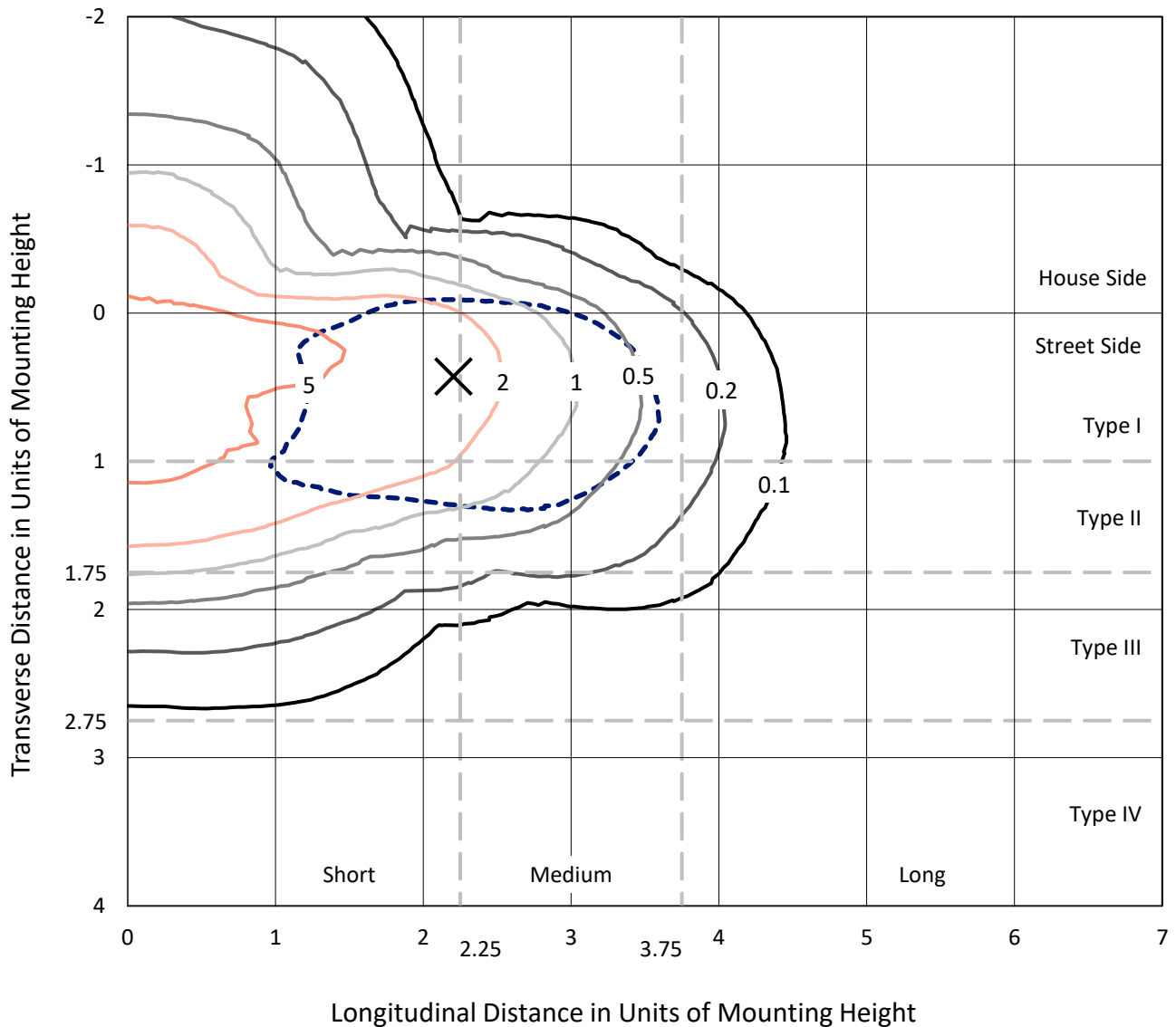
Lumens per Lamp: N/A
Luminaire Lumens: 28263.2 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

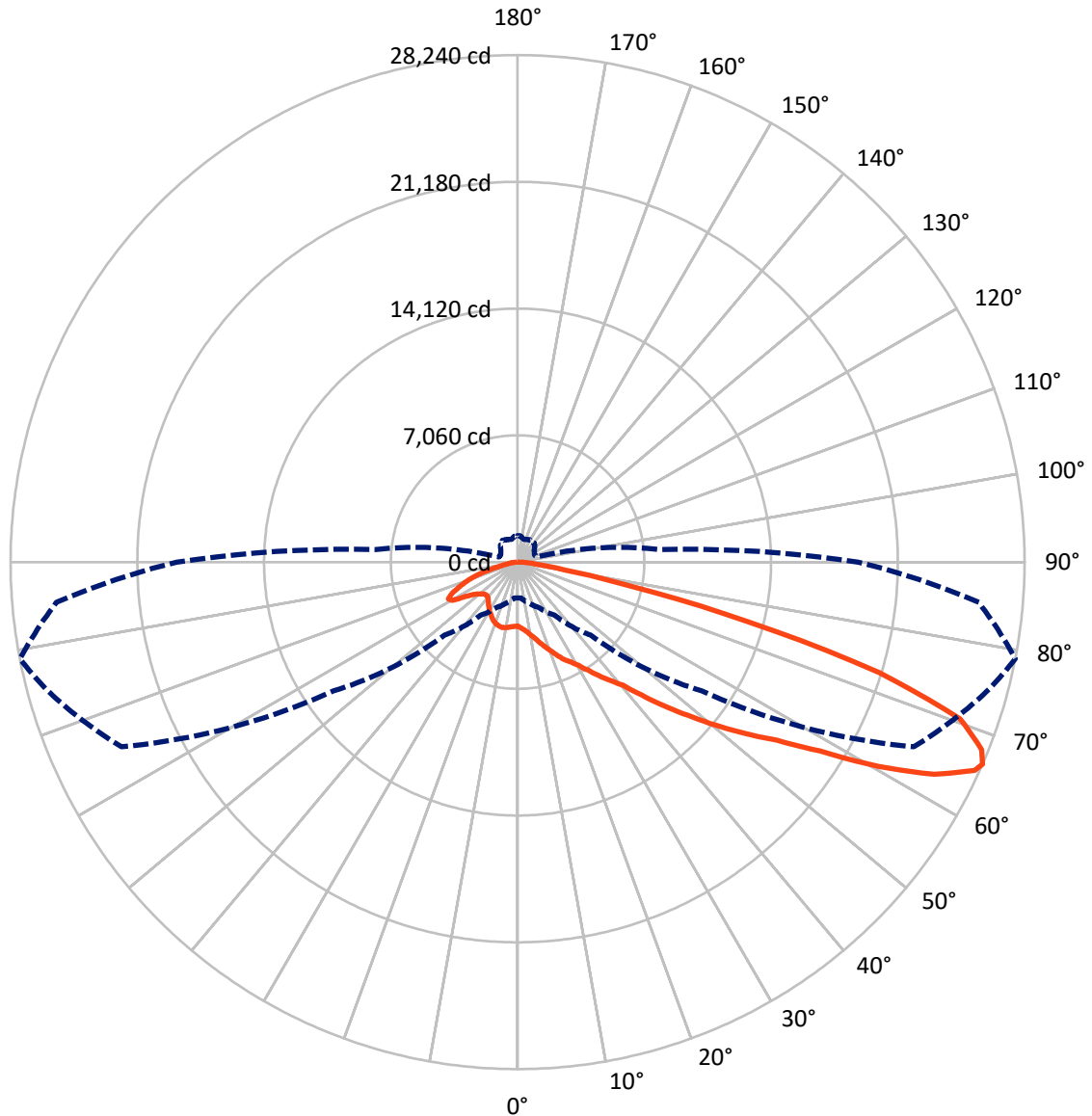
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	5707.4	0.0	5707.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	22555.9	0.0	22555.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	28263.2	0.0	28263.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.9	1.2
10°-20°	1083.6	3.8
20°-30°	1860.1	6.6
30°-40°	2873.5	10.2
40°-50°	4602.6	16.3
50°-60°	6872.0	24.3
60°-70°	7061.0	25.0
70°-80°	3130.0	11.1
80°-90°	429.5	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°	28263.2	100.0
0°-180°	28263.2	100.0

Coefficient of Utilization



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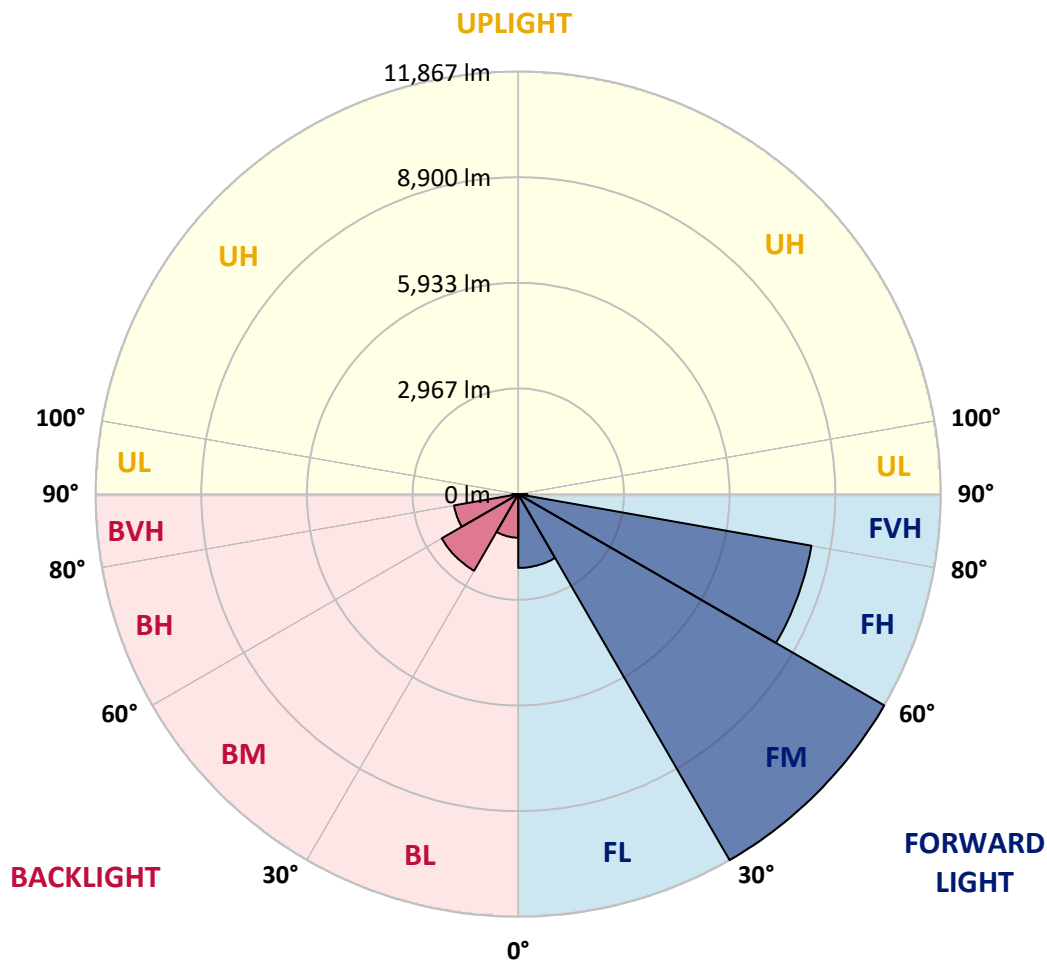
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2071.9	7.3			
FM (30°-60°)	11866.8	42.0			
FH (60°-80°)	8359.6	29.6			G4/12000
FVH (80°-90°)	257.6	0.9			G3/500
BL (0°-30°)	1222.8	4.3	B3/2500		
BM (30°-60°)	2481.3	8.8	B2/2500		
BH (60°-80°)	1831.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	171.9	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°	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9
2.5°	3795.8	3798.9	3798.9	3786.5	3789.6	3798.9	3764.7	3690.1	3690.1	3677.7	3655.9
5°	4029.0	4013.4	3991.7	3994.8	3982.3	3982.3	3945.0	3873.5	3811.3	3786.5	3721.2
7.5°	4060.0	4075.6	4072.5	4109.8	4128.4	4128.4	4147.1	4088.0	3994.8	3935.7	3870.4
10°	4122.2	4081.8	4078.7	4165.7	4193.7	4259.0	4333.6	4302.5	4224.8	4140.9	4053.8
12.5°	4159.5	4184.4	4184.4	4227.9	4293.2	4389.6	4520.1	4579.2	4458.0	4370.9	4237.2
15°	4215.5	4181.3	4280.8	4318.1	4442.4	4510.8	4697.3	4849.7	4768.8	4663.1	4451.7
17.5°	4240.4	4218.6	4274.5	4342.9	4554.3	4656.9	4883.9	5095.3	5026.9	4958.5	4740.9
20°	4367.8	4364.7	4389.6	4445.5	4597.9	4799.9	5082.8	5375.1	5399.9	5275.6	4980.2
22.5°	4678.7	4638.3	4638.3	4616.5	4681.8	4890.1	5272.5	5676.6	5788.5	5642.4	5250.7
25°	4964.7	5020.7	4986.5	4887.0	4862.1	4970.9	5409.2	5996.8	6146.0	6009.2	5617.5
27.5°	5331.5	5350.2	5409.2	5275.6	5104.6	5138.8	5558.5	6177.1	6484.9	6301.5	5825.8
30°	5860.0	5825.8	5813.4	5664.2	5440.3	5393.7	5729.4	6441.4	6929.4	6671.4	6071.4
32.5°	6217.5	6301.5	6298.4	6093.2	5822.7	5720.1	5940.8	6690.1	7405.1	7165.7	6525.3
35°	6926.3	7013.4	6945.0	6643.4	6326.3	6121.2	6245.5	7013.4	7949.1	7762.6	6910.8
37.5°	7831.0	8036.2	7890.0	7333.6	6885.9	6662.1	6668.3	7364.7	8505.6	8353.2	7324.2
40°	8455.8	8732.5	8530.4	8008.2	7532.5	7321.1	7237.2	7781.2	9170.8	9009.2	7970.9
42.5°	9229.9	9460.0	9354.3	8838.2	8281.7	8101.4	7933.6	8477.6	10187.4	10112.8	8800.9
45°	10075.5	10184.3	10150.1	9823.7	9205.0	9142.9	8772.9	9394.7	11384.3	11415.4	9839.2
47.5°	10862.0	10921.1	10986.4	10750.1	10364.6	10417.5	9739.8	10377.0	12547.0	12752.1	10995.7
50°	11064.1	11266.2	11418.5	11577.0	11661.0	12018.5	10806.1	11583.2	13883.7	14281.7	12282.7
52.5°	10858.9	10843.4	11306.6	11804.0	12643.3	13392.5	12257.8	13081.7	15065.1	15851.6	13460.9
55°	9926.3	9895.2	10641.3	11300.4	12938.7	14157.3	14331.4	15077.5	16492.0	17514.8	15055.7
57.5°	8294.2	8101.4	8915.9	9997.8	12298.3	14241.2	16414.3	18040.1	18686.8	19852.6	17489.9
60°	5574.0	5493.2	6273.5	7563.6	9985.3	13050.6	17660.9	21748.9	21780.0	23091.9	21267.0
62.5°	3432.1	3447.6	3948.1	4915.0	6991.6	10346.0	17123.1	24711.6	24717.8	26032.8	24375.8
65°	2244.5	2253.9	2658.0	3192.7	4367.8	7016.5	14160.4	24944.7	26760.2	27982.0	25799.6
66°	1998.9	2002.0	2350.2	2785.5	3618.6	5741.9	12506.6	24338.5	27220.3	28240.0	25781.0
67.5°	1684.9	1725.4	2005.2	2340.9	2822.8	4125.3	9923.2	22585.2	26984.1	27879.4	25196.5
70°	1318.1	1339.9	1560.6	1902.6	2117.1	2387.5	5897.3	18410.1	24699.1	26150.9	23070.1
72.5°	1057.0	1075.6	1243.5	1545.1	1719.1	1573.0	3211.4	13358.4	19510.6	21058.8	18145.8
75°	892.2	895.3	976.2	1215.5	1414.5	1181.3	1709.8	8574.0	12519.0	13240.2	11116.9
77.5°	721.2	733.7	789.6	926.4	1137.8	929.5	1019.7	4803.0	6285.9	6338.8	5138.8
80°	587.6	593.8	628.0	674.6	867.3	687.0	690.1	2344.0	2695.3	2633.1	2089.1
82.5°	463.2	469.4	509.8	500.5	637.3	491.2	429.0	1128.5	1240.4	1215.5	960.6
85°	261.1	261.1	401.0	401.0	404.1	310.9	261.1	531.6	655.9	612.4	450.8
87.5°	83.9	87.0	121.2	127.5	202.1	139.9	127.5	199.0	310.9	273.6	161.7
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°	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9	3568.9
2.5°	3643.5	3593.7	3572.0	3500.5	3481.8	3435.2	3413.4	3385.4	3376.1	3335.7	3373.0
5°	3671.4	3655.9	3568.9	3478.7	3410.3	3379.2	3332.6	3270.4	3264.2	3208.2	3202.0
7.5°	3789.6	3736.7	3584.4	3488.0	3351.2	3273.5	3170.9	3139.8	3099.4	3080.8	3121.2
10°	3973.0	3839.3	3612.4	3369.9	3202.0	3108.8	3034.2	3012.4	3015.5	3003.1	2984.4
12.5°	4103.6	3976.1	3565.8	3270.4	3052.8	2962.7	2956.4	2978.2	3012.4	2996.8	3018.6
15°	4290.1	4050.7	3531.6	3105.7	2931.6	2906.7	2903.6	2968.9	2965.8	2965.8	2962.7
17.5°	4464.2	4125.3	3407.2	2962.7	2804.1	2822.8	2844.5	2841.4	2872.5	2884.9	2906.7
20°	4684.9	4212.4	3233.1	2819.6	2707.7	2701.5	2698.4	2701.5	2732.6	2751.3	2735.7
22.5°	4877.6	4231.0	3087.0	2682.9	2592.7	2567.8	2527.4	2567.8	2552.3	2558.5	2577.2
25°	5045.5	4234.1	2878.7	2580.3	2477.7	2421.7	2390.6	2387.5	2359.6	2356.4	2356.4
27.5°	5185.4	4128.4	2695.3	2437.3	2340.9	2288.0	2284.9	2250.7	2179.2	2132.6	2138.8
30°	5294.2	4047.6	2567.8	2312.9	2219.7	2210.3	2182.4	2104.6	2011.4	1952.3	1952.3
32.5°	5487.0	3886.0	2393.7	2185.5	2138.8	2126.4	2061.1	1992.7	1905.7	1849.7	1840.4
35°	5630.0	3736.7	2278.7	2076.7	2054.9	2030.0	1974.1	1899.5	1874.6	1862.1	1871.5
37.5°	5791.6	3568.9	2138.8	1983.4	2005.2	1958.5	1893.2	1859.0	1946.1	1924.3	1933.7
40°	6049.7	3450.7	2002.0	1927.4	1949.2	1896.3	1812.4	1800.0	1908.8	1831.1	1812.4
42.5°	6522.2	3447.6	1918.1	1843.5	1859.0	1818.6	1744.0	1737.8	1781.3	1688.1	1660.1
45°	7109.7	3556.4	1855.9	1781.3	1768.9	1762.7	1737.8	1709.8	1672.5	1551.3	1520.2
47.5°	7812.3	3733.6	1843.5	1688.1	1703.6	1756.5	1725.4	1653.9	1557.5	1479.8	1464.2
50°	8664.1	4100.5	1812.4	1619.7	1647.6	1731.6	1706.7	1607.2	1520.2	1470.4	1461.1
52.5°	9606.1	4563.7	1772.0	1514.0	1576.1	1709.8	1722.3	1629.0	1501.5	1458.0	1451.8
55°	10715.9	5247.6	1725.4	1398.9	1492.2	1688.1	1722.3	1566.8	1476.7	1476.7	1470.4
57.5°	12907.6	6478.7	1629.0	1293.2	1417.6	1647.6	1672.5	1569.9	1479.8	1479.8	1467.3
60°	16122.0	8399.9	1445.6	1212.4	1346.1	1591.7	1635.2	1523.3	1445.6	1464.2	1461.1
62.5°	18637.0	8984.3	1290.1	1134.7	1274.6	1489.1	1585.5	1473.6	1405.2	1473.6	1479.8
65°	19174.8	8393.7	1131.6	1050.8	1175.1	1389.6	1514.0	1402.1	1346.1	1479.8	1486.0
66°	18982.1	7933.6	1075.6	1025.9	1131.6	1339.9	1470.4	1377.2	1315.0	1473.6	1476.7
67.5°	18124.1	7243.4	1013.5	973.0	1072.5	1268.4	1420.7	1343.0	1265.3	1454.9	1426.9
70°	16258.8	6142.9	907.8	879.8	988.6	1150.2	1305.7	1255.9	1187.5	1339.9	1290.1
72.5°	12522.1	4908.7	795.8	799.0	892.2	1029.0	1190.7	1156.5	1097.4	1175.1	1144.0
75°	7625.8	3136.7	693.3	699.5	777.2	914.0	1081.8	1057.0	985.5	1029.0	1013.5
77.5°	3379.2	1554.4	584.4	596.9	659.1	805.2	942.0	901.5	826.9	836.3	830.0
80°	1311.9	736.8	475.6	491.2	531.6	643.5	780.3	743.0	677.7	665.3	659.1
82.5°	631.1	410.4	366.8	373.1	388.6	512.9	671.5	624.9	537.8	481.9	481.9
85°	317.1	254.9	258.0	236.3	258.0	348.2	453.9	379.3	314.0	279.8	286.0
87.5°	127.5	127.5	127.5	108.8	115.0	164.8	211.4	143.0	130.6	77.7	77.7
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)