

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: P480871

Luminaire Tested: **IFLD-M-SA4E-735-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480871  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-735-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

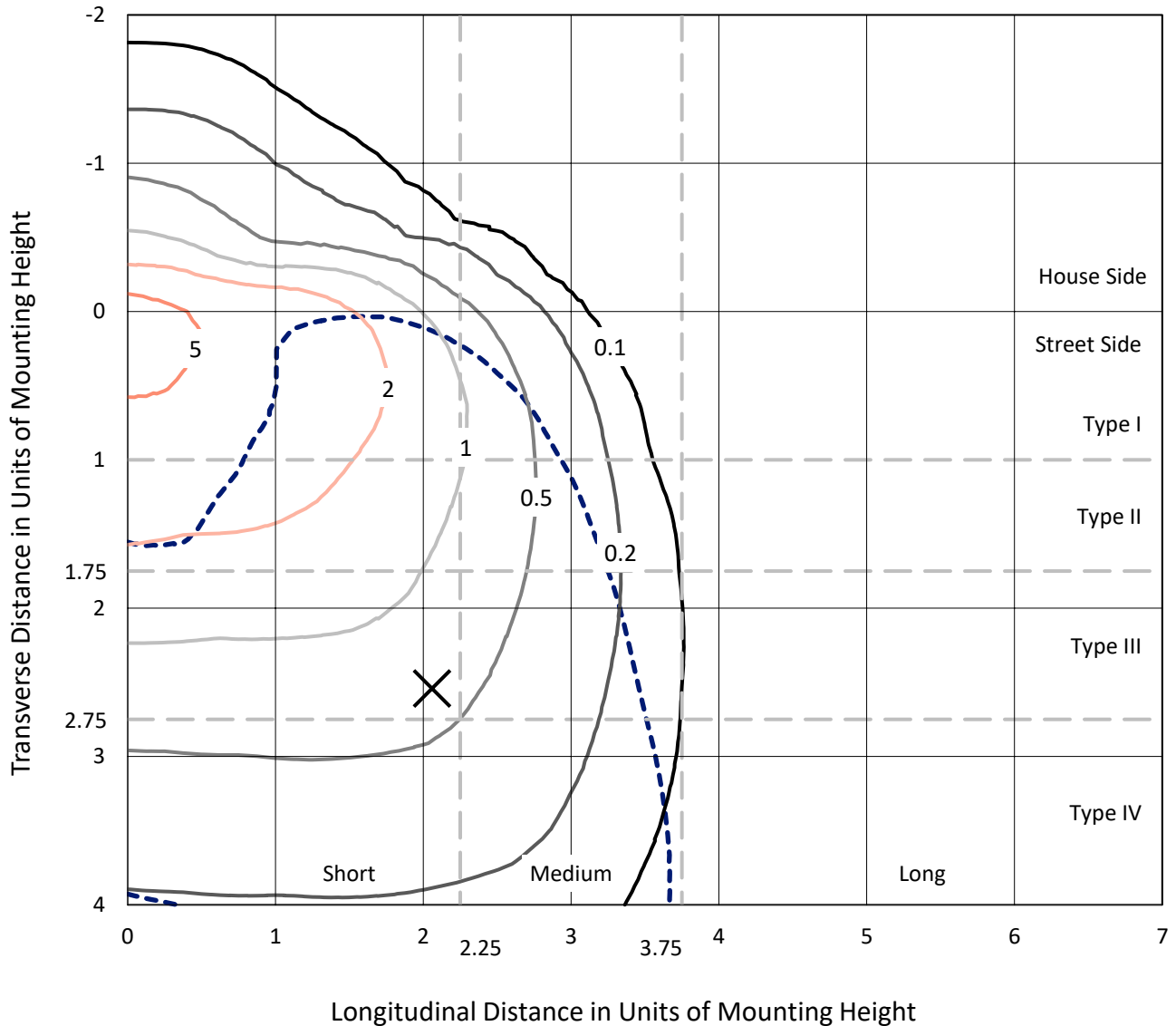
Lumens per Lamp: N/A  
Luminaire Lumens: 34540.2 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8  
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

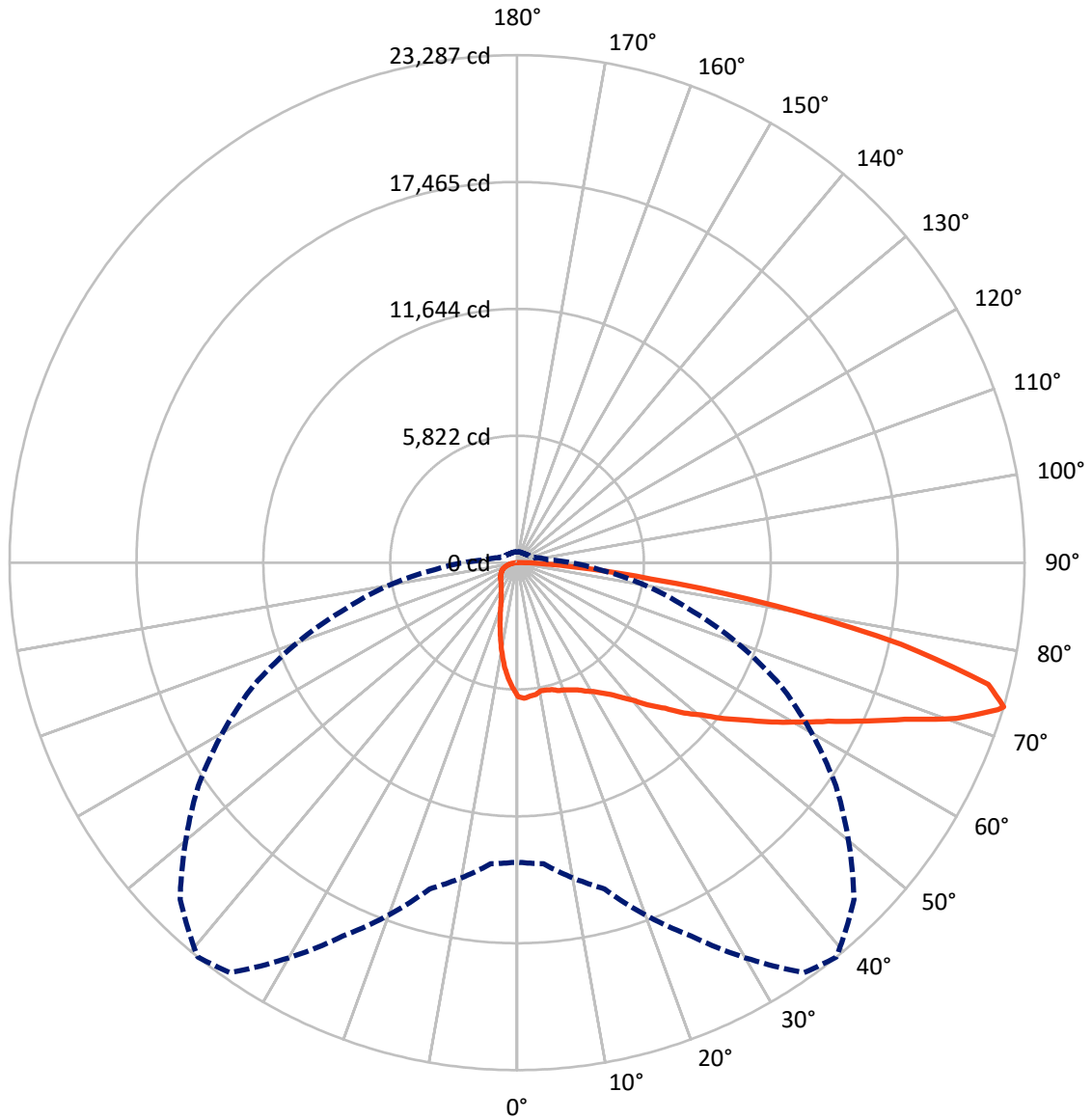
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4855.4	0.0	4855.4
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	29684.8	0.0	29684.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	34540.2	0.0	34540.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.7	1.5
10°-20°	1356.8	3.9
20°-30°	2073.4	6.0
30°-40°	3023.0	8.8
40°-50°	4568.1	13.2
50°-60°	6614.8	19.2
60°-70°	8404.5	24.3
70°-80°	6813.1	19.7
80°-90°	1152.7	3.3
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°	34540.2	100.0
0°-180°	34540.2	100.0

**Coefficient of Utilization**



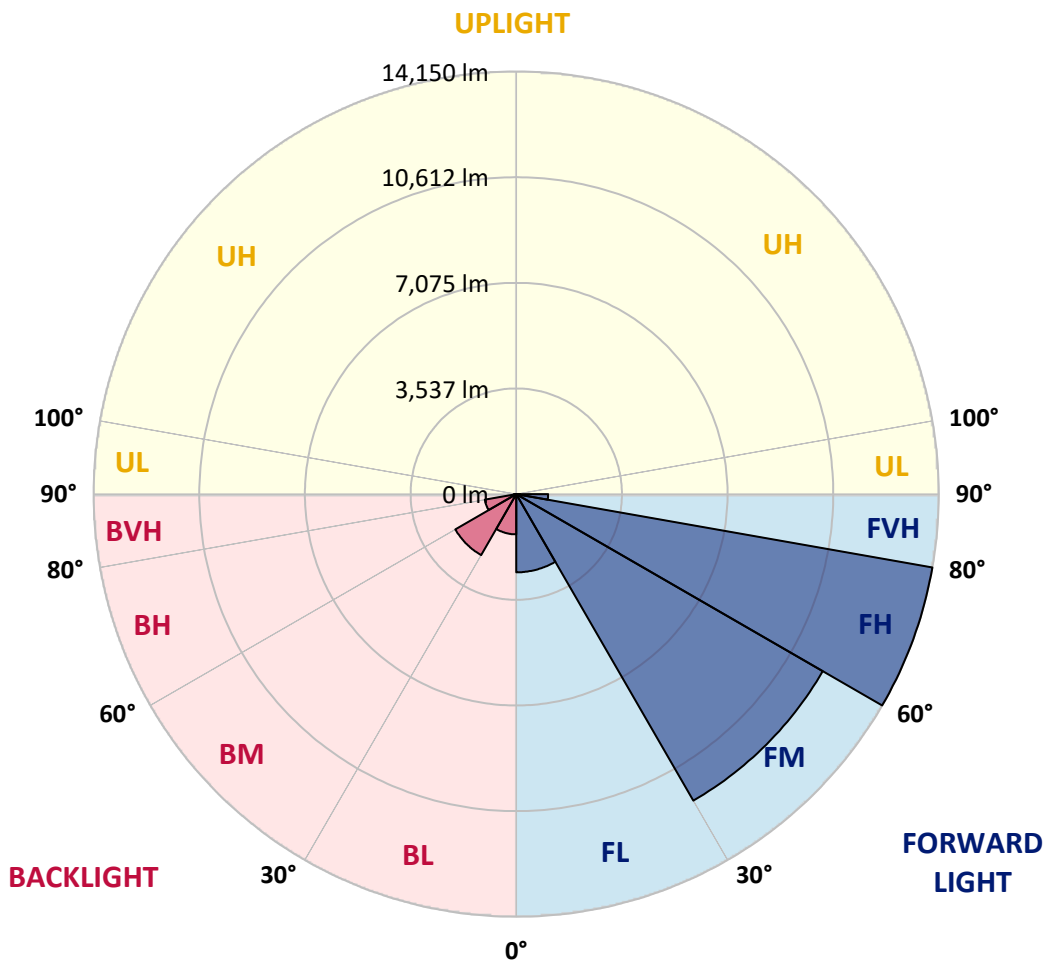
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2617.4	7.6			
FM (30°-60°)	11849.5	34.3			
FH (60°-80°)	14149.7	41.0			G5
FVH (80°-90°)	1068.2	3.1			G5
BL (0°-30°)	1346.5	3.9	B3/2500		
BM (30°-60°)	2356.4	6.8	B2/2500		
BH (60°-80°)	1067.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	84.6	0.2			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4
2.5°	6295.2	6229.5	6241.1	6217.9	6241.1	6233.4	6221.8	6163.8	6221.8	6163.8	6148.4
5°	6210.2	6210.2	6248.8	6190.9	6198.6	6160.0	6198.6	6156.1	6117.4	6020.8	5993.8
7.5°	6183.1	6179.3	6183.1	6102.0	6140.6	6117.4	6078.8	6032.4	5955.1	5893.3	5804.4
10°	5997.7	6036.3	5993.8	6017.0	6047.9	5978.3	5974.5	5962.9	5928.1	5846.9	5792.8
12.5°	5897.2	5962.9	5986.1	5966.7	5993.8	6001.5	5978.3	5962.9	5920.4	5866.3	5711.7
15°	5939.7	5862.4	5928.1	6055.6	6028.6	6047.9	6051.8	6036.3	6017.0	5916.5	5816.0
17.5°	5951.3	5904.9	6044.0	6071.1	6105.9	6175.4	6129.0	6125.2	6051.8	5982.2	5835.3
20°	5978.3	5959.0	6071.1	6214.1	6217.9	6229.5	6252.7	6194.7	6156.1	6036.3	5812.2
22.5°	6078.8	6144.5	6248.8	6310.7	6345.5	6353.2	6353.2	6237.2	6194.7	6098.1	5920.4
25°	6380.2	6310.7	6457.5	6530.9	6480.7	6469.1	6442.1	6337.7	6291.4	6206.3	5970.6
27.5°	6600.5	6596.6	6681.7	6782.1	6646.9	6673.9	6577.3	6546.4	6442.1	6395.7	6059.5
30°	6901.9	6987.0	6983.1	7014.0	6836.2	6867.2	6743.5	6685.5	6627.6	6654.6	6322.3
32.5°	7288.4	7257.5	7307.7	7284.5	7106.8	7133.8	6987.0	6898.1	6917.4	6998.5	6681.7
35°	7535.7	7504.8	7524.1	7524.1	7470.0	7439.1	7377.3	7261.3	7354.1	7504.8	7083.6
37.5°	7802.4	7841.0	7953.1	7929.9	7860.3	7860.3	7852.6	7771.4	7891.2	8262.2	7725.1
40°	8038.1	8142.4	8212.0	8258.4	8339.5	8339.5	8405.2	8358.8	8575.3	9170.4	8509.6
42.5°	8285.4	8289.3	8668.0	8702.8	8884.4	8961.7	9011.9	9050.6	9456.3	10121.0	9348.1
45°	8602.3	8621.6	8954.0	9220.6	9502.7	9529.8	9719.1	9846.7	10345.2	11160.6	10260.2
47.5°	9019.7	8996.5	9352.0	9777.1	10128.8	10314.3	10542.3	10681.4	11295.8	12289.0	11257.2
50°	9568.4	9498.9	9703.7	10372.2	10785.7	10990.5	11396.3	11628.2	12347.0	13367.2	11941.2
52.5°	10237.0	10121.0	10283.3	11013.7	11477.5	11891.0	12277.4	12536.3	13286.0	14201.9	12447.4
55°	10944.2	10704.6	10750.9	11693.9	12362.4	12752.7	13282.2	13552.7	14317.8	14951.6	12953.7
57.5°	11643.6	11492.9	11400.2	12347.0	13417.4	13792.3	14279.2	14630.9	15280.1	15616.3	13382.6
60°	12231.0	12192.4	12041.7	13359.5	14534.3	14855.0	15365.1	15581.5	16072.3	16230.8	13390.4
62.5°	12714.1	12582.7	12822.3	14174.9	15670.4	16033.7	16594.0	16613.3	16961.1	16613.3	12996.2
65°	13092.8	13100.5	13483.1	15160.3	16984.3	17521.5	17973.6	17923.4	17699.3	16385.3	12064.9
67.5°	13436.7	13583.6	14143.9	16242.4	18673.1	19179.3	19681.7	19017.0	17900.2	15318.7	10244.7
70°	13707.3	13854.1	15036.6	17560.1	20663.3	21405.3	21517.3	19449.9	16976.6	12976.9	7728.9
72.5°	13676.3	13943.0	15542.9	18611.3	22429.4	23070.9	22166.6	18232.6	14143.9	9046.7	4509.8
73°	13742.0	13873.4	15500.4	18905.0	22966.5	23287.3	21865.1	17850.0	13340.1	8115.4	3814.2
75°	12474.5	12918.9	14731.3	18425.8	22390.7	22332.8	20133.9	14874.3	9483.4	4262.5	1847.2
77.5°	9228.3	9510.5	11608.9	15152.6	18379.4	18008.4	15187.4	9506.6	4502.1	1580.6	997.0
80°	4509.8	4730.1	6152.2	8749.2	12018.5	12049.4	9425.4	4946.5	1928.4	892.7	680.1
82.5°	2253.0	2384.4	2956.3	3845.1	5912.6	6194.7	4780.3	2813.3	1194.1	506.2	386.4
85°	1472.4	1565.1	1820.2	1882.0	2508.0	2647.2	2225.9	2195.0	776.8	274.4	313.0
87.5°	977.7	993.2	1116.8	950.7	1004.8	966.1	1074.3	1383.5	228.0	115.9	85.0
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°	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4	6148.4
2.5°	6129.0	6074.9	6017.0	5935.8	5877.9	5789.0	5707.8	5673.0	5665.3	5669.2	5630.5
5°	5970.6	5893.3	5777.4	5611.2	5514.6	5367.7	5244.1	5178.4	5108.8	5120.4	5089.5
7.5°	5750.3	5665.3	5487.5	5294.3	5054.7	4846.0	4730.1	4567.8	4475.1	4405.5	4444.1
10°	5680.8	5533.9	5267.3	5000.6	4629.6	4355.3	4088.6	3903.1	3775.6	3651.9	3706.0
12.5°	5646.0	5499.1	5128.1	4734.0	4254.8	3837.4	3462.6	3234.6	3052.9	2944.7	2987.2
15°	5615.1	5433.4	4996.8	4440.3	3903.1	3354.4	2933.1	2631.7	2457.8	2353.5	2365.1
17.5°	5657.6	5398.7	4803.5	4154.3	3516.7	2929.3	2461.7	2148.6	1970.9	1905.2	1889.7
20°	5615.1	5360.0	4614.2	3868.3	3130.2	2523.5	2075.2	1816.3	1692.6	1638.5	1626.9
22.5°	5630.5	5267.3	4417.1	3551.4	2770.8	2183.4	1816.3	1619.2	1522.6	1495.5	1503.3
25°	5704.0	5213.2	4220.0	3203.6	2415.3	1932.2	1650.1	1499.4	1429.9	1402.8	1410.5
27.5°	5758.1	5259.5	4042.2	2875.2	2113.9	1708.1	1511.0	1410.5	1364.2	1344.8	1341.0
30°	5893.3	5286.6	3868.3	2581.5	1866.5	1561.2	1414.4	1333.2	1302.3	1290.7	1286.9
32.5°	6094.3	5336.8	3667.4	2311.0	1684.9	1422.1	1337.1	1267.5	1259.8	1248.2	1252.1
35°	6422.7	5510.7	3443.2	2079.1	1511.0	1329.4	1256.0	1209.6	1209.6	1209.6	1221.2
37.5°	6894.2	5754.2	3242.3	1858.8	1398.9	1248.2	1186.4	1170.9	1163.2	1174.8	1182.5
40°	7500.9	6047.9	3080.0	1684.9	1302.3	1194.1	1140.0	1132.3	1128.4	1124.6	1132.3
42.5°	8165.6	6422.7	2940.9	1549.7	1232.8	1136.2	1097.5	1089.8	1074.3	1082.1	1093.6
45°	8826.4	6886.5	2817.2	1441.4	1186.4	1105.2	1051.1	1047.3	1039.5	1035.7	1055.0
47.5°	9560.7	7342.5	2778.6	1375.7	1151.6	1058.9	1020.2	1016.4	993.2	989.3	1004.8
50°	10132.6	7678.7	2821.1	1344.8	1101.4	1024.1	997.0	977.7	958.4	939.1	939.1
52.5°	10526.8	7910.6	2852.0	1321.6	1074.3	977.7	942.9	935.2	915.9	896.6	888.8
55°	10882.3	8049.7	2859.7	1325.5	1047.3	923.6	900.4	896.6	885.0	854.0	846.3
57.5°	11002.1	7991.7	2705.1	1290.7	1031.8	888.8	857.9	865.6	850.2	823.1	819.3
60°	10990.5	7589.8	2353.5	1244.4	997.0	850.2	811.5	834.7	834.7	803.8	799.9
62.5°	10322.0	6662.3	1924.5	1155.5	958.4	811.5	769.0	803.8	815.4	796.1	792.2
65°	8934.6	5425.7	1607.6	1066.6	900.4	769.0	726.5	765.2	784.5	776.8	772.9
67.5°	7392.7	4150.4	1337.1	950.7	827.0	711.1	676.3	703.3	714.9	718.8	722.7
70°	5224.8	2763.1	1116.8	823.1	726.5	649.2	610.6	614.5	610.6	622.2	622.2
72.5°	2840.4	1592.2	908.1	699.5	626.0	564.2	537.2	517.8	517.8	514.0	514.0
73°	2430.7	1429.9	865.6	680.1	599.0	548.8	517.8	502.4	502.4	498.5	494.7
75°	1364.2	1047.3	742.0	583.5	517.8	479.2	456.0	432.8	429.0	429.0	429.0
77.5°	896.6	815.4	591.3	467.6	417.4	382.6	374.9	351.7	351.7	351.7	347.8
80°	672.4	641.5	456.0	355.5	320.8	293.7	286.0	270.5	266.6	251.2	255.1
82.5°	448.3	506.2	332.3	251.2	216.4	201.0	201.0	197.1	185.5	166.2	166.2
85°	355.5	413.5	239.6	154.6	127.5	108.2	112.1	108.2	104.3	85.0	81.2
87.5°	65.7	166.2	69.6	42.5	30.9	19.3	19.3	11.6	7.7	0.0	0.0
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)