

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: P480869

Luminaire Tested: **IFLD-M-SA4C-735-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480869  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-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**

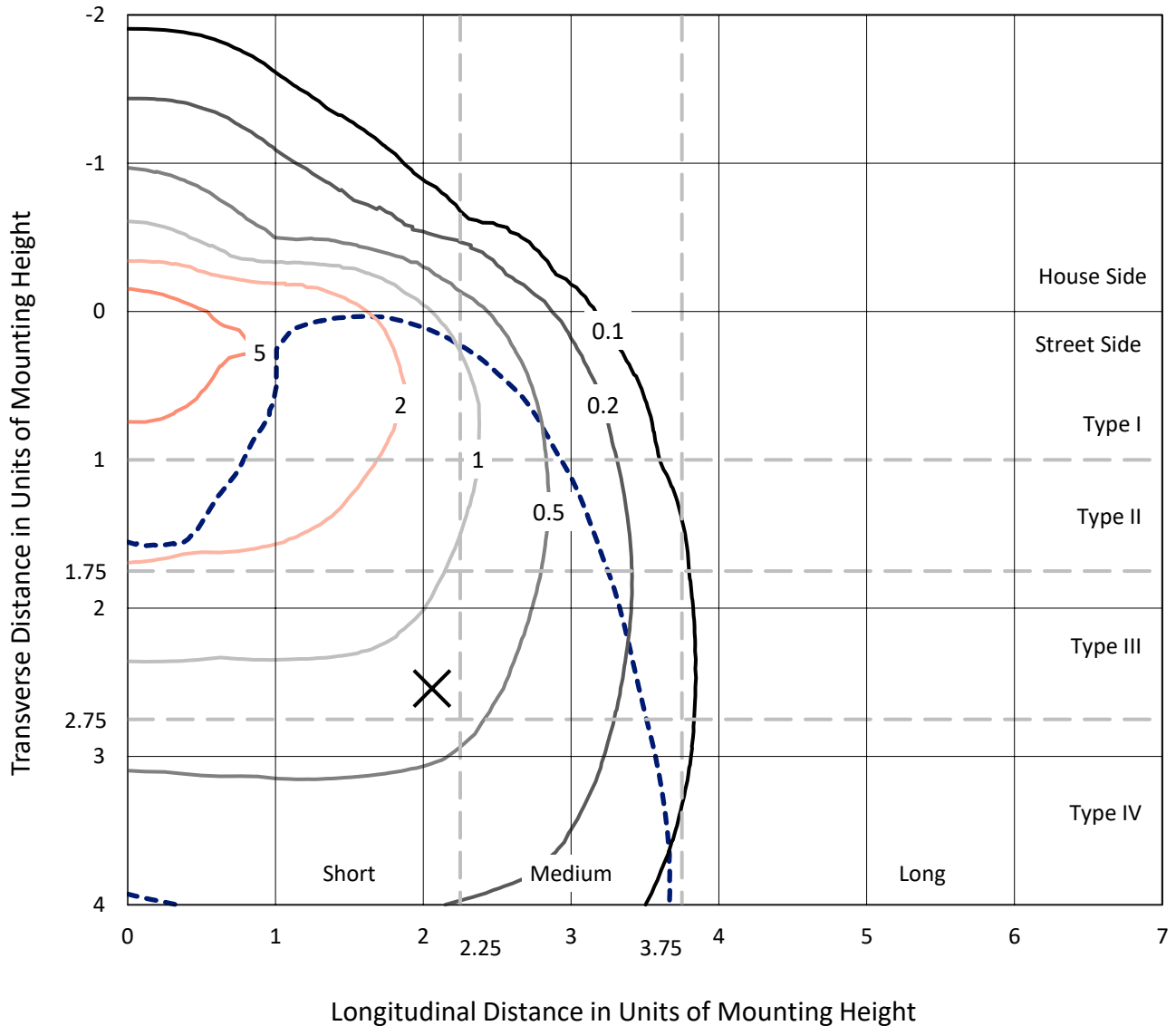
Lumens per Lamp: N/A  
Luminaire Lumens: 27124.6 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 218.1  
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

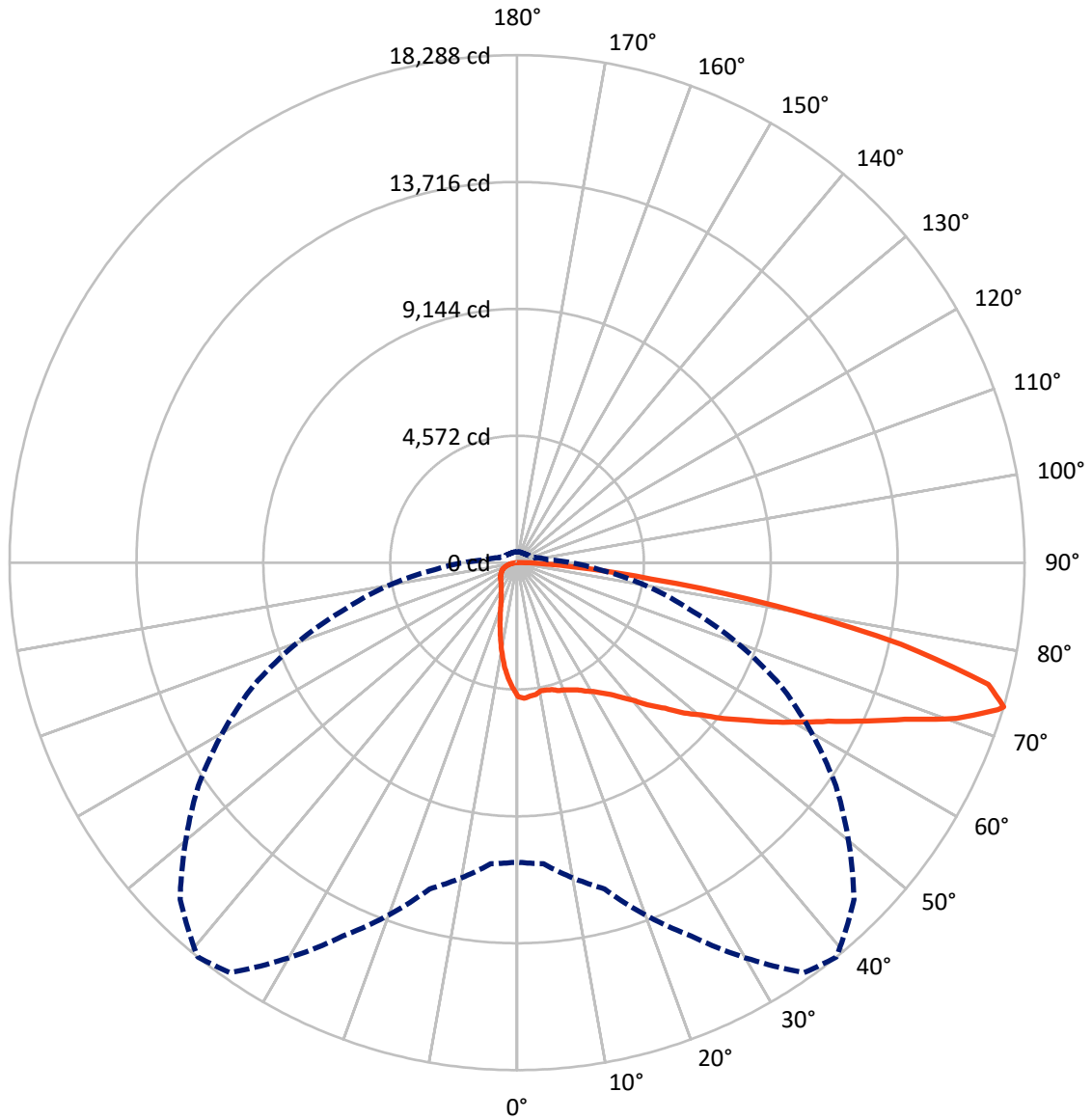
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3813.0	0.0	3813.0
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	23311.7	0.0	23311.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	27124.6	0.0	27124.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.1	1.5
10°-20°	1065.5	3.9
20°-30°	1628.2	6.0
30°-40°	2374.0	8.8
40°-50°	3587.3	13.2
50°-60°	5194.7	19.2
60°-70°	6600.1	24.3
70°-80°	5350.4	19.7
80°-90°	905.3	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°	27124.6	100.0
0°-180°	27124.6	100.0

**Coefficient of Utilization**



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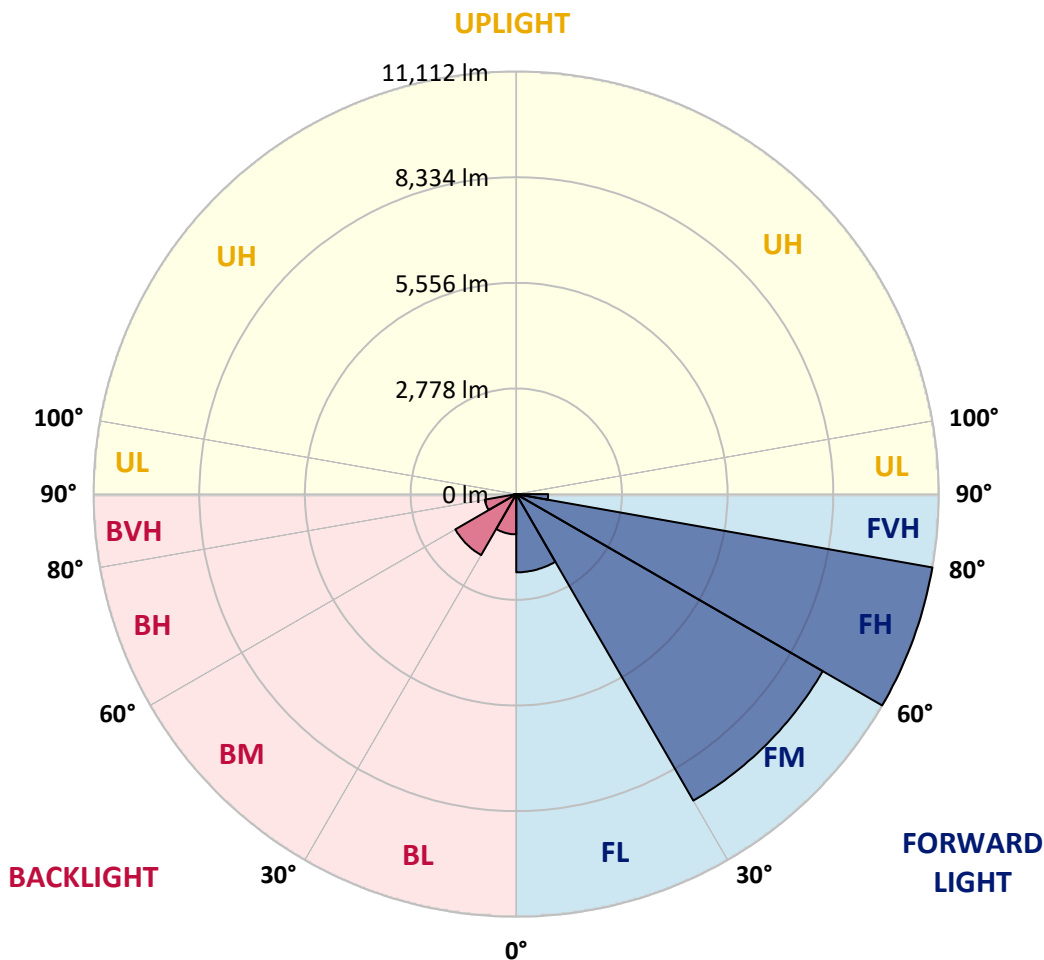
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2055.4	7.6			
FM (30°-60°)	9305.5	34.3			
FH (60°-80°)	11111.9	41.0			G4/12000
FVH (80°-90°)	838.8	3.1			G5
BL (0°-30°)	1057.4	3.9	B3/2500		
BM (30°-60°)	1850.5	6.8	B2/2500		
BH (60°-80°)	838.6	3.1	B2/1000		G2/1000
BVH (80°-90°)	66.4	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°	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3
2.5°	4943.7	4892.1	4901.2	4883.0	4901.2	4895.1	4886.0	4840.5	4886.0	4840.5	4828.3
5°	4876.9	4876.9	4907.3	4861.7	4867.8	4837.5	4867.8	4834.4	4804.1	4728.2	4707.0
7.5°	4855.7	4852.6	4855.7	4791.9	4822.3	4804.1	4773.7	4737.3	4676.6	4628.1	4558.3
10°	4710.0	4740.3	4707.0	4725.2	4749.4	4694.8	4691.8	4682.7	4655.4	4591.6	4549.1
12.5°	4631.1	4682.7	4700.9	4685.7	4707.0	4713.0	4694.8	4682.7	4649.3	4606.8	4485.4
15°	4664.5	4603.8	4655.4	4755.5	4734.3	4749.4	4752.5	4740.3	4725.2	4646.3	4567.4
17.5°	4673.6	4637.2	4746.4	4767.7	4795.0	4849.6	4813.2	4810.1	4752.5	4697.9	4582.5
20°	4694.8	4679.6	4767.7	4879.9	4883.0	4892.1	4910.3	4864.8	4834.4	4740.3	4564.3
22.5°	4773.7	4825.3	4907.3	4955.8	4983.1	4989.2	4989.2	4898.1	4864.8	4788.9	4649.3
25°	5010.4	4955.8	5071.1	5128.8	5089.3	5080.2	5059.0	4977.1	4940.6	4873.9	4688.7
27.5°	5183.4	5180.4	5247.1	5326.1	5219.8	5241.1	5165.2	5140.9	5059.0	5022.6	4758.5
30°	5420.1	5486.9	5483.9	5508.1	5368.5	5392.8	5295.7	5250.2	5204.7	5225.9	4964.9
32.5°	5723.6	5699.3	5738.8	5720.6	5581.0	5602.2	5486.9	5417.1	5432.3	5496.0	5247.1
35°	5917.8	5893.6	5908.7	5908.7	5866.2	5842.0	5793.4	5702.4	5775.2	5893.6	5562.8
37.5°	6127.2	6157.6	6245.6	6227.4	6172.8	6172.8	6166.7	6103.0	6197.0	6488.4	6066.5
40°	6312.4	6394.3	6448.9	6485.3	6549.1	6549.1	6600.7	6564.2	6734.2	7201.6	6682.6
42.5°	6506.6	6509.6	6807.0	6834.3	6977.0	7037.7	7077.1	7107.5	7426.1	7948.1	7341.2
45°	6755.4	6770.6	7031.6	7241.0	7462.5	7483.8	7632.5	7732.6	8124.1	8764.5	8057.4
47.5°	7083.2	7065.0	7344.2	7678.0	7954.2	8099.9	8278.9	8388.2	8870.7	9650.6	8840.3
50°	7514.1	7459.5	7620.4	8145.4	8470.1	8630.9	8949.6	9131.7	9696.1	10497.3	9377.5
52.5°	8039.2	7948.1	8075.6	8649.1	9013.3	9338.0	9641.5	9844.9	10433.6	11152.8	9775.1
55°	8594.5	8406.4	8442.8	9183.3	9708.3	10014.8	10430.6	10643.0	11243.9	11741.6	10172.6
57.5°	9143.8	9025.5	8952.6	9696.1	10536.8	10831.2	11213.5	11489.7	11999.6	12263.6	10509.5
60°	9605.1	9574.8	9456.4	10491.3	11413.8	11665.7	12066.3	12236.3	12621.7	12746.1	10515.5
62.5°	9984.5	9881.3	10069.4	11131.6	12306.1	12591.3	13031.4	13046.6	13319.7	13046.6	10206.0
65°	10281.9	10287.9	10588.4	11905.5	13337.9	13759.7	14114.8	14075.3	13899.3	12867.5	9474.6
67.5°	10552.0	10667.3	11107.3	12755.2	14664.1	15061.7	15456.2	14934.2	14057.1	12029.9	8045.2
70°	10764.4	10879.7	11808.4	13790.1	16227.0	16809.7	16897.7	15274.1	13331.8	10190.8	6069.6
72.5°	10740.1	10949.5	12205.9	14615.5	17613.9	18117.7	17407.5	14318.1	11107.3	7104.4	3541.6
73°	10791.7	10894.9	12172.5	14846.2	18035.7	18287.6	17170.8	14017.7	10476.1	6373.1	2995.3
75°	9796.3	10145.3	11568.6	14469.9	17583.6	17538.0	15811.2	11680.9	7447.4	3347.4	1450.6
77.5°	7247.1	7468.6	9116.5	11899.4	14433.5	14142.1	11926.7	7465.6	3535.5	1241.2	783.0
80°	3541.6	3714.6	4831.4	6870.8	9438.2	9462.5	7401.8	3884.5	1514.4	701.0	534.1
82.5°	1769.3	1872.5	2321.6	3019.6	4643.2	4864.8	3754.0	2209.3	937.7	397.6	303.5
85°	1156.3	1229.1	1429.4	1477.9	1969.6	2078.8	1748.0	1723.8	610.0	215.5	245.8
87.5°	767.8	779.9	877.1	746.6	789.0	758.7	843.7	1086.5	179.1	91.0	66.8
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°	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3	4828.3
2.5°	4813.2	4770.7	4725.2	4661.4	4615.9	4546.1	4482.4	4455.1	4449.0	4452.0	4421.7
5°	4688.7	4628.1	4537.0	4406.5	4330.6	4215.3	4118.2	4066.6	4012.0	4021.1	3996.8
7.5°	4515.8	4449.0	4309.4	4157.7	3969.5	3805.6	3714.6	3587.1	3514.3	3459.7	3490.0
10°	4461.1	4345.8	4136.4	3927.0	3635.7	3420.2	3210.8	3065.1	2965.0	2867.9	2910.4
12.5°	4433.8	4318.5	4027.2	3717.6	3341.3	3013.5	2719.2	2540.1	2397.5	2312.5	2345.9
15°	4409.5	4266.9	3924.0	3487.0	3065.1	2634.2	2303.4	2066.7	1930.1	1848.2	1857.3
17.5°	4442.9	4239.6	3772.2	3262.4	2761.7	2300.4	1933.2	1687.3	1547.7	1496.2	1484.0
20°	4409.5	4209.3	3623.5	3037.8	2458.2	1981.7	1629.7	1426.4	1329.2	1286.8	1277.6
22.5°	4421.7	4136.4	3468.8	2789.0	2175.9	1714.7	1426.4	1271.6	1195.7	1174.5	1180.5
25°	4479.3	4093.9	3314.0	2515.8	1896.7	1517.4	1295.9	1177.5	1122.9	1101.6	1107.7
27.5°	4521.8	4130.3	3174.4	2257.9	1660.0	1341.4	1186.6	1107.7	1071.3	1056.1	1053.1
30°	4628.1	4151.6	3037.8	2027.2	1465.8	1226.1	1110.7	1047.0	1022.7	1013.6	1010.6
32.5°	4785.9	4191.0	2880.0	1814.8	1323.2	1116.8	1050.0	995.4	989.3	980.2	983.3
35°	5043.8	4327.6	2704.0	1632.7	1186.6	1044.0	986.3	949.9	949.9	949.9	959.0
37.5°	5414.1	4518.8	2546.2	1459.7	1098.6	980.2	931.7	919.5	913.5	922.6	928.6
40°	5890.5	4749.4	2418.7	1323.2	1022.7	937.7	895.3	889.2	886.2	883.1	889.2
42.5°	6412.5	5043.8	2309.5	1217.0	968.1	892.2	861.9	855.8	843.7	849.7	858.8
45°	6931.5	5408.0	2212.4	1132.0	931.7	867.9	825.5	822.4	816.4	813.3	828.5
47.5°	7508.1	5766.1	2182.0	1080.4	904.4	831.5	801.2	798.1	779.9	776.9	789.0
50°	7957.2	6030.1	2215.4	1056.1	864.9	804.2	783.0	767.8	752.6	737.5	737.5
52.5°	8266.8	6212.2	2239.7	1037.9	843.7	767.8	740.5	734.4	719.2	704.1	698.0
55°	8546.0	6321.5	2245.7	1040.9	822.4	725.3	707.1	704.1	695.0	670.7	664.6
57.5°	8640.0	6275.9	2124.4	1013.6	810.3	698.0	673.7	679.8	667.7	646.4	643.4
60°	8630.9	5960.3	1848.2	977.2	783.0	667.7	637.3	655.5	655.5	631.2	628.2
62.5°	8105.9	5232.0	1511.3	907.4	752.6	637.3	603.9	631.2	640.3	625.2	622.1
65°	7016.4	4260.8	1262.5	837.6	707.1	603.9	570.5	600.9	616.1	610.0	607.0
67.5°	5805.6	3259.4	1050.0	746.6	649.4	558.4	531.1	552.3	561.4	564.5	567.5
70°	4103.0	2169.9	877.1	646.4	570.5	509.8	479.5	482.5	479.5	488.6	488.6
72.5°	2230.6	1250.3	713.2	549.3	491.6	443.1	421.8	406.7	406.7	403.6	403.6
73°	1908.9	1122.9	679.8	534.1	470.4	430.9	406.7	394.5	394.5	391.5	388.5
75°	1071.3	822.4	582.7	458.3	406.7	376.3	358.1	339.9	336.9	336.9	336.9
77.5°	704.1	640.3	464.3	367.2	327.8	300.4	294.4	276.2	276.2	276.2	273.1
80°	528.1	503.8	358.1	279.2	251.9	230.6	224.6	212.4	209.4	197.3	200.3
82.5°	352.0	397.6	261.0	197.3	169.9	157.8	157.8	154.8	145.7	130.5	130.5
85°	279.2	324.7	188.2	121.4	100.1	85.0	88.0	85.0	81.9	66.8	63.7
87.5°	51.6	130.5	54.6	33.4	24.3	15.2	15.2	9.1	6.1	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)