

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: P480838

Luminaire Tested: **IFLD-L-SA8A-730-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480838  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-730-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

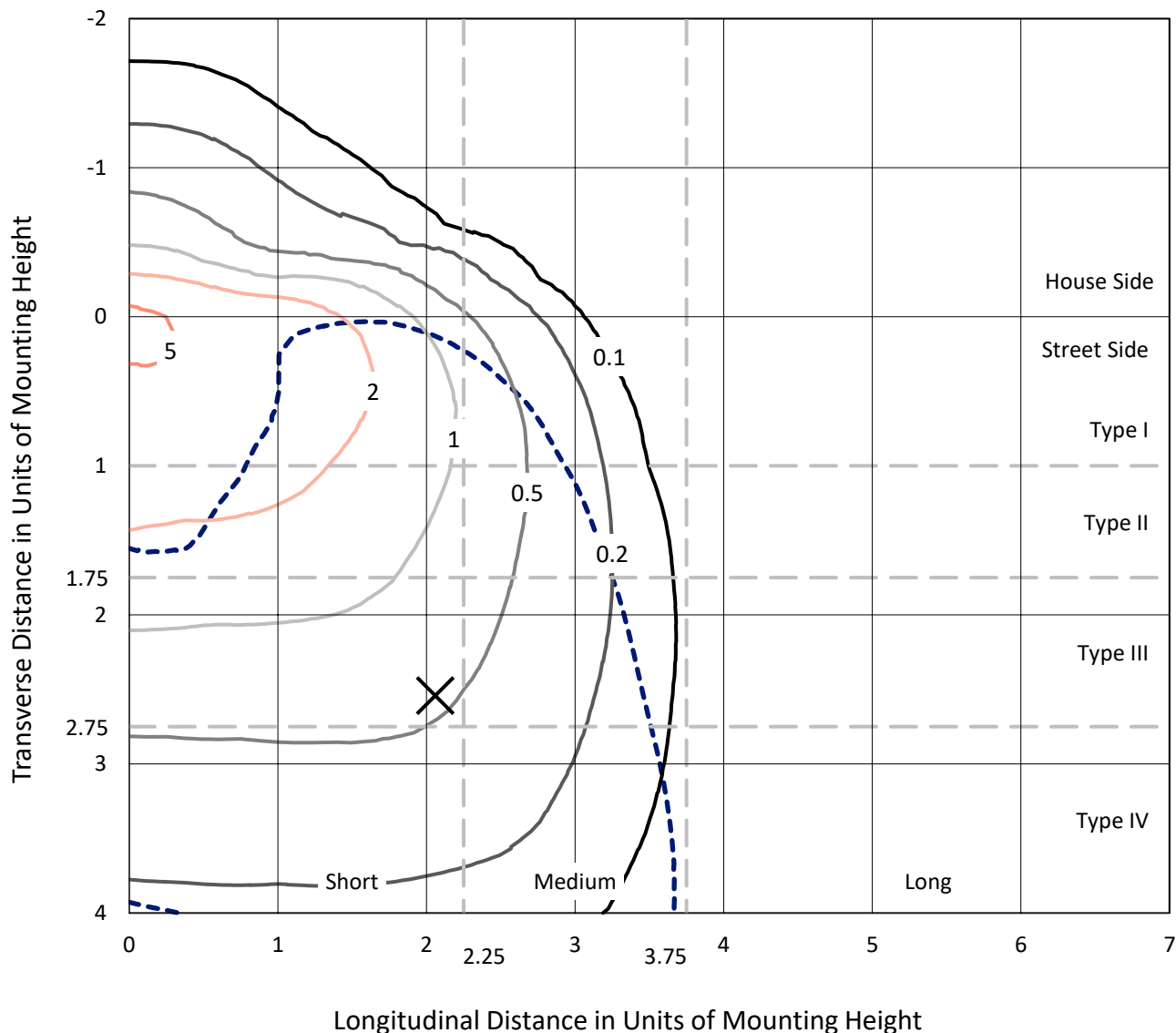
Lumens per Lamp: N/A  
Luminaire Lumens: 30173.1 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8  
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

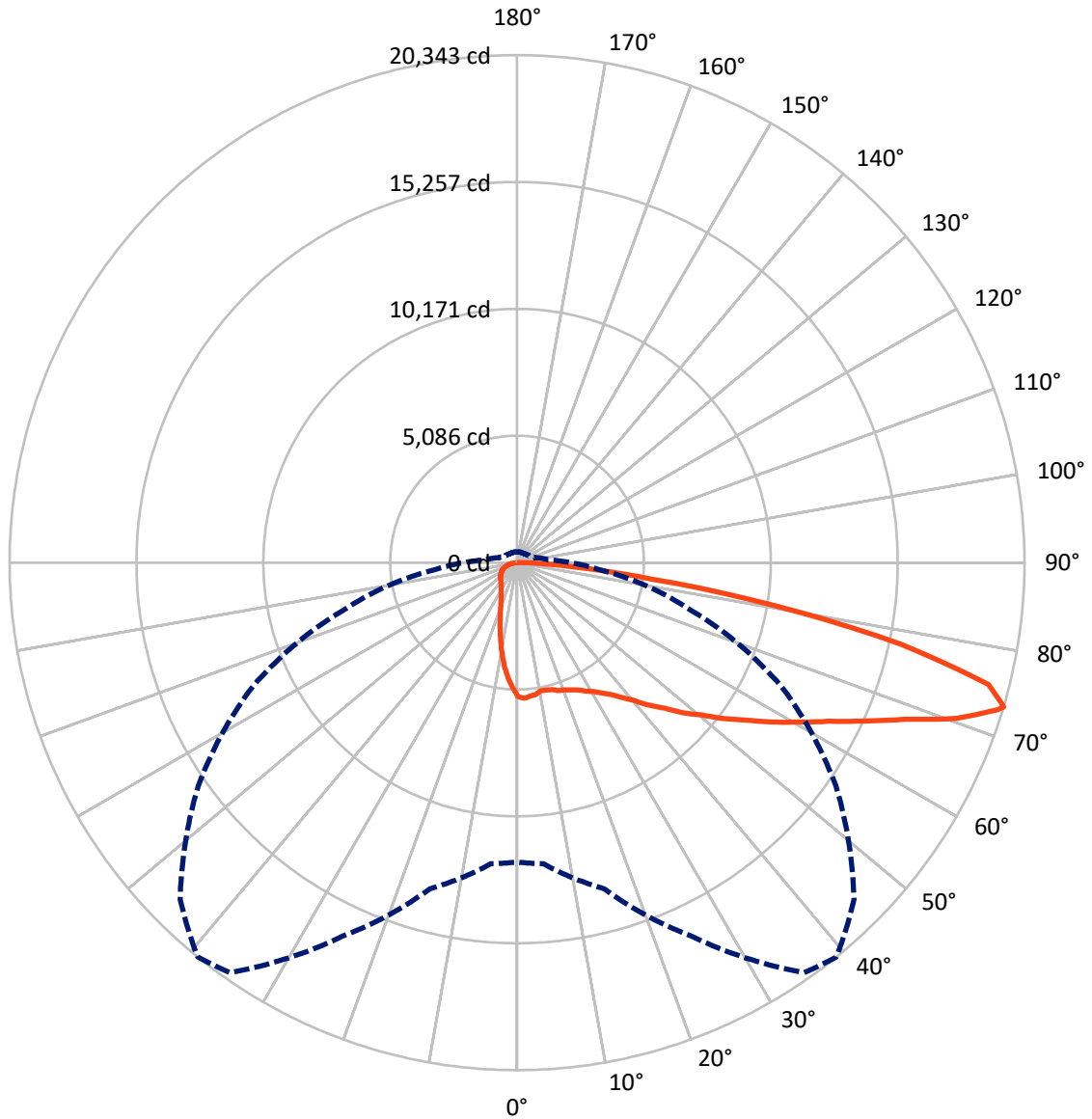
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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	4241.5	0.0	4241.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	25931.6	0.0	25931.6
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	30173.1	0.0	30173.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.2	1.5
10°-20°	1185.3	3.9
20°-30°	1811.2	6.0
30°-40°	2640.8	8.8
40°-50°	3990.5	13.2
50°-60°	5778.5	19.2
60°-70°	7341.8	24.3
70°-80°	5951.7	19.7
80°-90°	1007.0	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°	30173.1	100.0
0°-180°	30173.1	100.0

**Coefficient of Utilization**



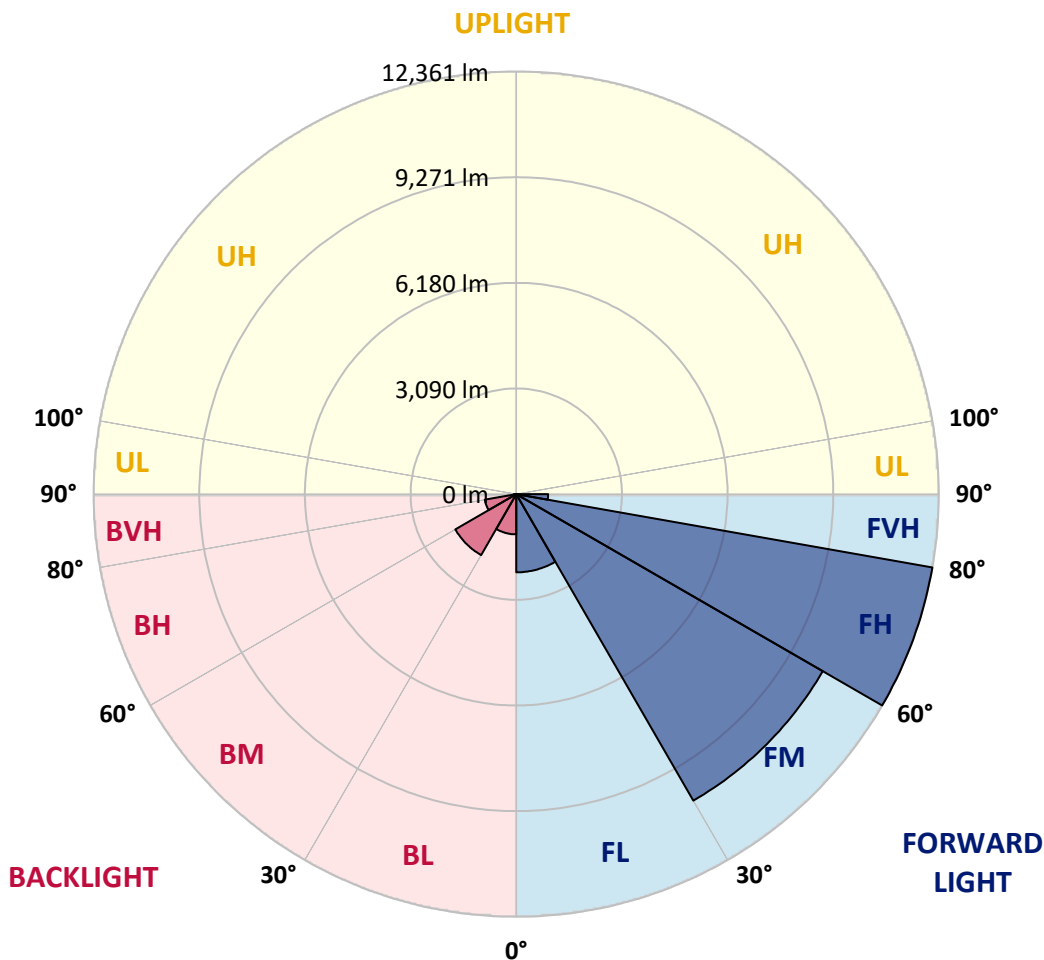
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2286.5	7.6			
FM (30°-60°)	10351.3	34.3			
FH (60°-80°)	12360.7	41.0			G5
FVH (80°-90°)	933.1	3.1			G5
BL (0°-30°)	1176.3	3.9	B3/2500		
BM (30°-60°)	2058.5	6.8	B2/2500		
BH (60°-80°)	932.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	73.9	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°	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0
2.5°	5499.3	5441.9	5452.0	5431.8	5452.0	5445.3	5435.1	5384.5	5435.1	5384.5	5371.0
5°	5425.0	5425.0	5458.8	5408.1	5414.9	5381.1	5414.9	5377.7	5344.0	5259.6	5236.0
7.5°	5401.4	5398.0	5401.4	5330.5	5364.2	5344.0	5310.2	5269.7	5202.2	5148.2	5070.5
10°	5239.3	5273.1	5236.0	5256.2	5283.2	5222.5	5219.1	5208.9	5178.6	5107.7	5060.4
12.5°	5151.6	5208.9	5229.2	5212.3	5236.0	5242.7	5222.5	5208.9	5171.8	5124.6	4989.5
15°	5188.7	5121.2	5178.6	5290.0	5266.3	5283.2	5286.6	5273.1	5256.2	5168.4	5080.7
17.5°	5198.8	5158.3	5279.8	5303.5	5333.9	5394.6	5354.1	5350.7	5286.6	5225.8	5097.5
20°	5222.5	5205.6	5303.5	5428.4	5431.8	5441.9	5462.1	5411.5	5377.7	5273.1	5077.3
22.5°	5310.2	5367.6	5458.8	5512.8	5543.2	5549.9	5549.9	5448.6	5411.5	5327.1	5171.8
25°	5573.5	5512.8	5641.1	5705.2	5661.3	5651.2	5627.6	5536.4	5495.9	5421.6	5215.7
27.5°	5766.0	5762.6	5836.9	5924.6	5806.5	5830.1	5745.7	5718.7	5627.6	5587.0	5293.3
30°	6029.3	6103.6	6100.2	6127.2	5971.9	5998.9	5890.9	5840.2	5789.6	5813.2	5522.9
32.5°	6366.9	6339.9	6383.7	6363.5	6208.2	6231.8	6103.6	6025.9	6042.8	6113.7	5836.9
35°	6582.9	6555.9	6572.8	6572.8	6525.5	6498.5	6444.5	6343.2	6424.3	6555.9	6187.9
37.5°	6815.9	6849.6	6947.5	6927.3	6866.5	6866.5	6859.7	6788.9	6893.5	7217.6	6748.3
40°	7021.8	7112.9	7173.7	7214.2	7285.1	7285.1	7342.5	7302.0	7491.0	8010.9	7433.6
42.5°	7237.8	7241.2	7572.0	7602.4	7761.1	7828.6	7872.5	7906.3	8260.7	8841.4	8166.2
45°	7514.7	7531.5	7821.9	8054.8	8301.2	8324.9	8490.3	8601.7	9037.2	9749.5	8962.9
47.5°	7879.3	7859.0	8169.6	8540.9	8848.1	9010.2	9209.3	9330.9	9867.6	10735.2	9833.9
50°	8358.6	8297.9	8476.8	9060.8	9422.0	9600.9	9955.4	10158.0	10785.9	11677.1	10431.4
52.5°	8942.6	8841.4	8983.2	9621.2	10026.3	10387.5	10725.1	10951.3	11606.2	12406.3	10873.6
55°	9560.4	9351.1	9391.6	10215.3	10799.4	11140.3	11602.8	11839.1	12507.6	13061.2	11315.9
57.5°	10171.5	10039.8	9958.8	10785.9	11721.0	12048.4	12473.8	12781.0	13348.1	13641.8	11690.6
60°	10684.6	10650.8	10519.2	11670.3	12696.6	12976.8	13422.4	13611.5	14040.2	14178.6	11697.3
62.5°	11106.6	10991.8	11201.1	12382.6	13689.1	14006.4	14495.9	14512.8	14816.6	14512.8	11353.0
65°	11437.4	11444.2	11778.4	13243.5	14836.9	15306.1	15701.1	15657.2	15461.4	14313.6	10539.4
67.5°	11737.9	11866.1	12355.6	14188.7	16312.1	16754.4	17193.2	16612.6	15637.0	13381.9	8949.4
70°	11974.2	12102.5	13135.5	15339.9	18050.7	18698.9	18796.8	16990.7	14830.1	11336.1	6751.7
72.5°	11947.2	12180.1	13577.7	16258.1	19593.5	20153.9	19363.9	15927.3	12355.6	7902.9	3939.6
73°	12004.6	12119.3	13540.6	16514.7	20062.7	20342.9	19100.6	15593.1	11653.5	7089.3	3332.0
75°	10897.3	11285.5	12868.8	16096.1	19559.7	19509.1	17588.2	12993.7	8284.4	3723.6	1613.7
77.5°	8061.5	8308.0	10141.1	13236.7	16055.6	15731.5	13267.1	8304.6	3932.9	1380.7	871.0
80°	3939.6	4132.1	5374.4	7642.9	10498.9	10525.9	8233.7	4321.1	1684.6	779.8	594.2
82.5°	1968.1	2082.9	2582.5	3359.0	5165.1	5411.5	4175.9	2457.6	1043.1	442.2	337.6
85°	1286.2	1367.2	1590.0	1644.0	2190.9	2312.5	1944.5	1917.5	678.5	239.7	273.4
87.5°	854.1	867.6	975.6	830.5	877.7	844.0	938.5	1208.6	199.2	101.3	74.3
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°	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0	5371.0
2.5°	5354.1	5306.8	5256.2	5185.3	5134.7	5057.0	4986.1	4955.8	4949.0	4952.4	4918.6
5°	5215.7	5148.2	5046.9	4901.7	4817.3	4689.1	4581.0	4523.6	4462.9	4473.0	4446.0
7.5°	5023.3	4949.0	4793.7	4624.9	4415.6	4233.3	4132.1	3990.3	3909.2	3848.5	3882.2
10°	4962.5	4834.2	4601.3	4368.4	4044.3	3804.6	3571.7	3409.6	3298.2	3190.2	3237.4
12.5°	4932.1	4803.8	4479.8	4135.4	3716.8	3352.2	3024.8	2825.6	2666.9	2572.4	2609.5
15°	4905.1	4746.5	4365.0	3878.9	3409.6	2930.2	2562.3	2299.0	2147.0	2055.9	2066.0
17.5°	4942.3	4716.1	4196.2	3629.0	3072.0	2558.9	2150.4	1877.0	1721.7	1664.3	1650.8
20°	4905.1	4682.3	4030.8	3379.2	2734.4	2204.4	1812.8	1586.7	1478.6	1431.4	1421.2
22.5°	4918.6	4601.3	3858.6	3102.4	2420.5	1907.4	1586.7	1414.5	1330.1	1306.5	1313.2
25°	4982.8	4554.0	3686.4	2798.6	2109.9	1687.9	1441.5	1309.8	1249.1	1225.4	1232.2
27.5°	5030.0	4594.5	3531.1	2511.6	1846.6	1492.1	1320.0	1232.2	1191.7	1174.8	1171.4
30°	5148.2	4618.2	3379.2	2255.1	1630.5	1363.8	1235.6	1164.7	1137.7	1127.5	1124.2
32.5°	5323.7	4662.1	3203.7	2018.8	1471.9	1242.3	1168.0	1107.3	1100.5	1090.4	1093.8
35°	5610.7	4814.0	3007.9	1816.2	1320.0	1161.3	1097.2	1056.6	1056.6	1056.6	1066.8
37.5°	6022.5	5026.7	2832.3	1623.8	1222.1	1090.4	1036.4	1022.9	1016.1	1026.3	1033.0
40°	6552.5	5283.2	2690.6	1471.9	1137.7	1043.1	995.9	989.1	985.8	982.4	989.1
42.5°	7133.2	5610.7	2569.0	1353.7	1076.9	992.5	958.7	952.0	938.5	945.2	955.4
45°	7710.5	6015.8	2461.0	1259.2	1036.4	965.5	918.2	914.9	908.1	904.7	921.6
47.5°	8351.9	6414.1	2427.2	1201.8	1006.0	925.0	891.2	887.9	867.6	864.2	877.7
50°	8851.5	6707.8	2464.4	1174.8	962.1	894.6	871.0	854.1	837.2	820.3	820.3
52.5°	9195.8	6910.4	2491.4	1154.5	938.5	854.1	823.7	817.0	800.1	783.2	776.4
55°	9506.4	7031.9	2498.1	1157.9	914.9	806.8	786.6	783.2	773.1	746.1	739.3
57.5°	9611.1	6981.3	2363.1	1127.5	901.4	776.4	749.4	756.2	742.7	719.1	715.7
60°	9600.9	6630.2	2055.9	1087.0	871.0	742.7	708.9	729.2	729.2	702.2	698.8
62.5°	9016.9	5820.0	1681.2	1009.4	837.2	708.9	671.8	702.2	712.3	695.4	692.1
65°	7805.0	4739.7	1404.4	931.7	786.6	671.8	634.7	668.4	685.3	678.5	675.2
67.5°	6458.0	3625.7	1168.0	830.5	722.4	621.2	590.8	614.4	624.5	627.9	631.3
70°	4564.2	2413.7	975.6	719.1	634.7	567.1	533.4	536.8	533.4	543.5	543.5
72.5°	2481.3	1390.9	793.3	611.0	546.9	492.9	469.2	452.4	452.4	449.0	449.0
73°	2123.4	1249.1	756.2	594.2	523.3	479.4	452.4	438.9	438.9	435.5	432.1
75°	1191.7	914.9	648.2	509.8	452.4	418.6	398.4	378.1	374.7	374.7	374.7
77.5°	783.2	712.3	516.5	408.5	364.6	334.2	327.5	307.2	307.2	307.2	303.8
80°	587.4	560.4	398.4	310.6	280.2	256.6	249.8	236.3	232.9	219.4	222.8
82.5°	391.6	442.2	290.3	219.4	189.0	175.5	175.5	172.2	162.0	145.2	145.2
85°	310.6	361.2	209.3	135.0	111.4	94.5	97.9	94.5	91.1	74.3	70.9
87.5°	57.4	145.2	60.8	37.1	27.0	16.9	16.9	10.1	6.8	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)