

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: P480639

Luminaire Tested: **IFLD-L-SA7B-827-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480639  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-827-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

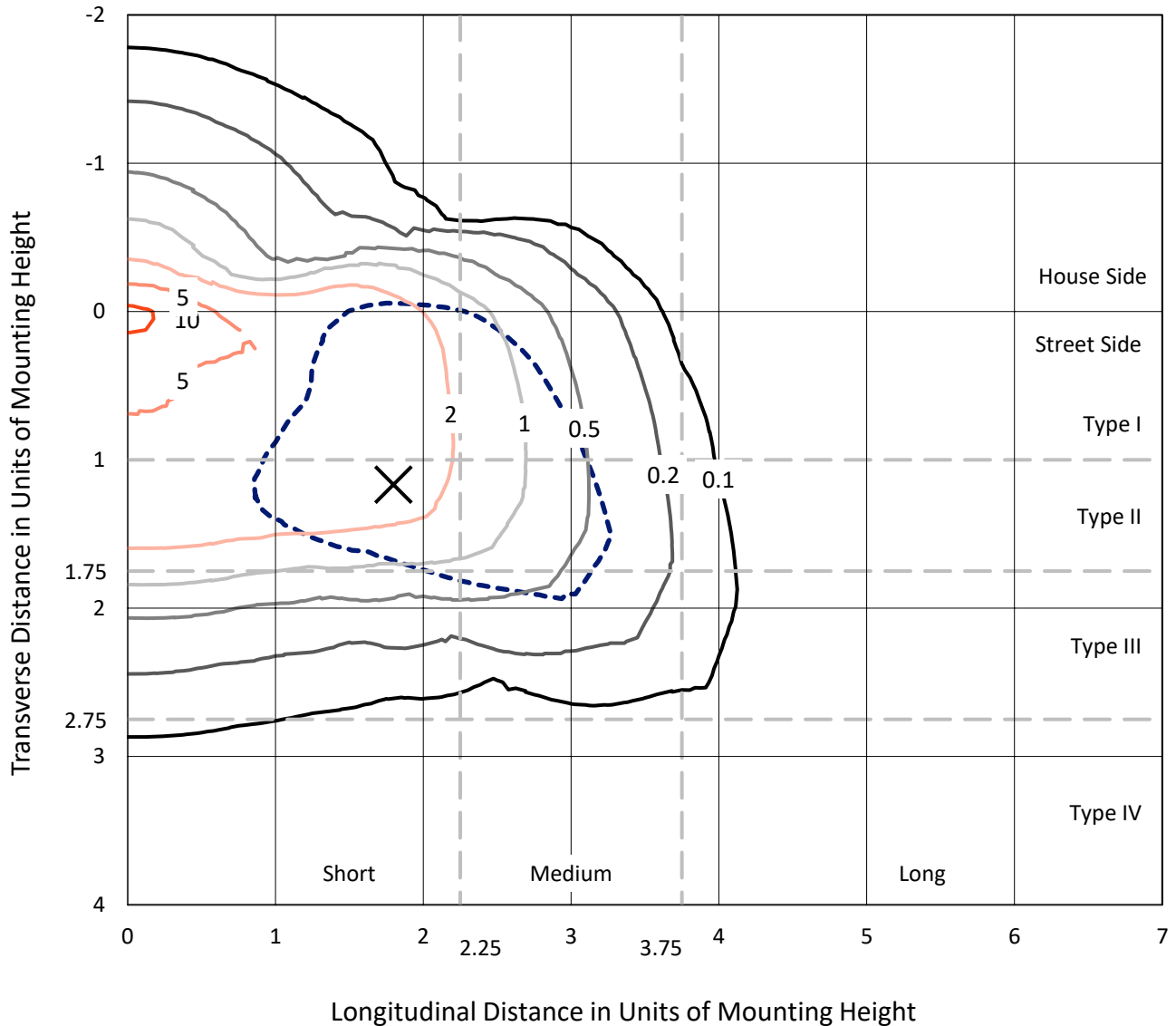
Lumens per Lamp: N/A  
Luminaire Lumens: 25830.9 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

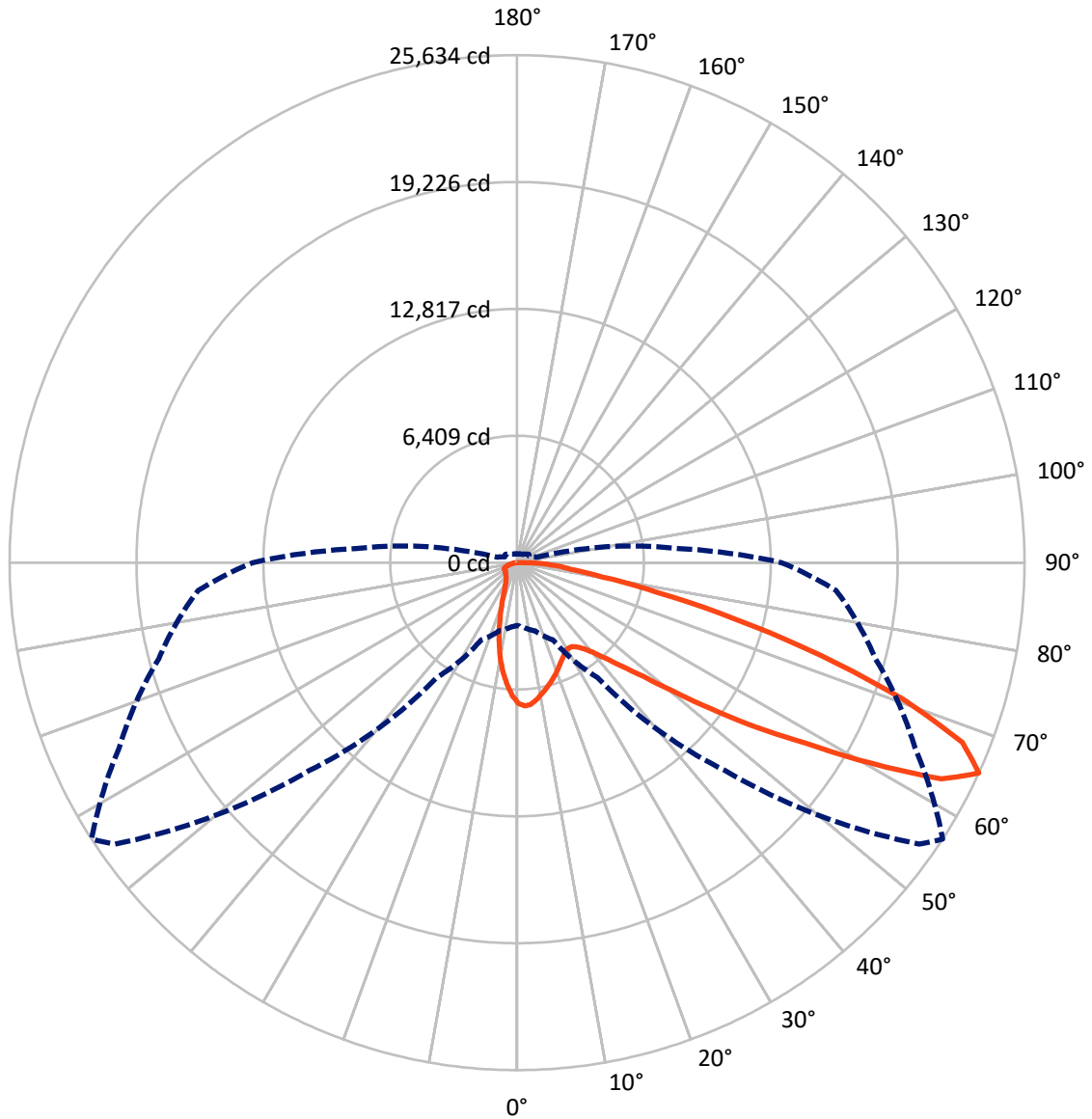
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3961.4	0.0	3961.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	21869.5	0.0	21869.5
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	25830.9	0.0	25830.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.8	2.3
10°-20°	1280.2	5.0
20°-30°	1655.2	6.4
30°-40°	2227.3	8.6
40°-50°	3551.5	13.7
50°-60°	6272.8	24.3
60°-70°	6901.0	26.7
70°-80°	2886.8	11.2
80°-90°	461.4	1.8
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°	25830.9	100.0
0°-180°	25830.9	100.0

**Coefficient of Utilization**



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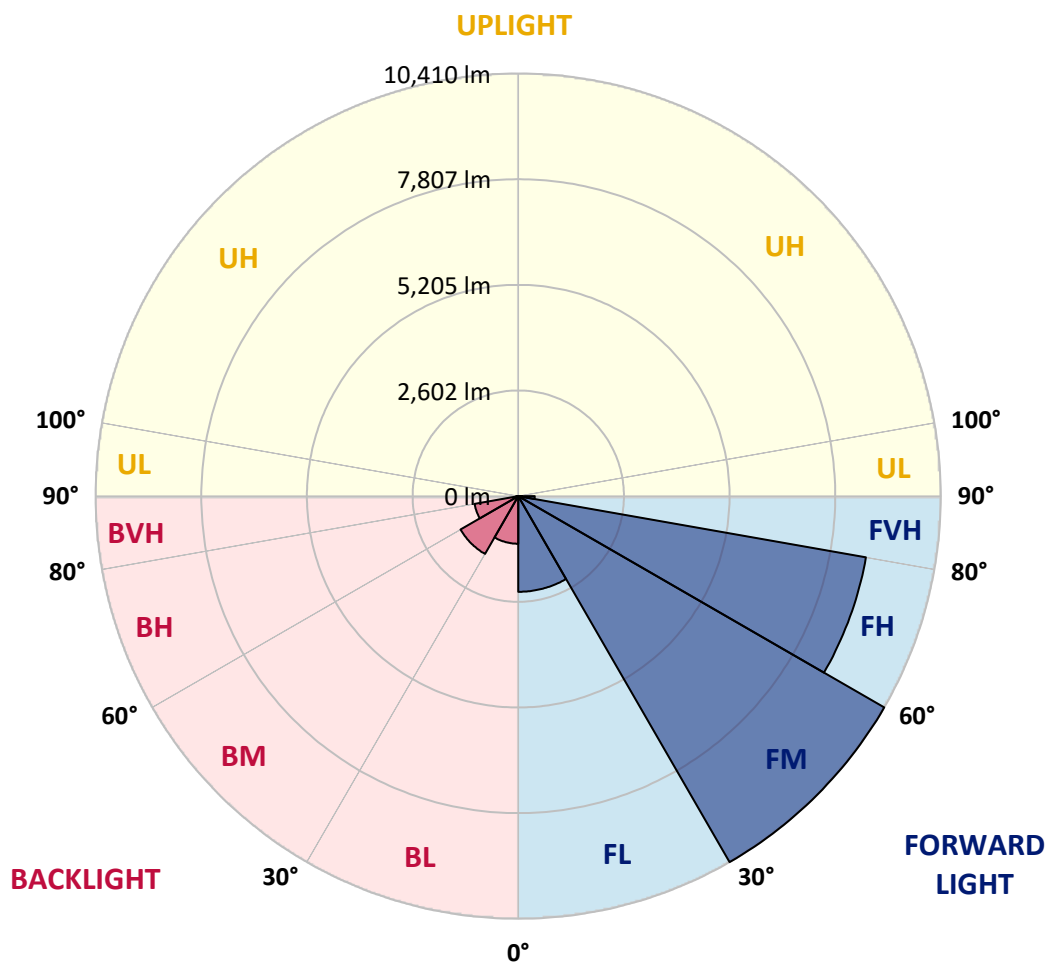
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2357.0	9.1			
FM (30°-60°)	10409.8	40.3			
FH (60°-80°)	8695.5	33.7			G4/12000
FVH (80°-90°)	407.2	1.6			G3/500
BL (0°-30°)	1173.2	4.5	B3/2500		
BM (30°-60°)	1641.8	6.4	B2/2500		
BH (60°-80°)	1092.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	54.1	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1
2.5°	7295.0	7306.6	7306.6	7329.8	7251.4	7289.2	7283.3	7248.5	7260.1	7199.1	7138.0
5°	7088.6	7079.9	7126.4	7132.2	7193.2	7210.7	7225.2	7202.0	7207.8	7074.1	7016.0
7.5°	6559.7	6556.7	6635.2	6702.1	6829.9	6949.1	7027.6	7004.3	7036.3	6952.0	6815.4
10°	5931.9	5998.7	6080.1	6147.0	6382.4	6533.5	6736.9	6757.3	6879.4	6859.0	6612.0
12.5°	5461.1	5490.1	5551.1	5743.0	5958.0	6208.0	6498.6	6524.8	6643.9	6702.1	6487.0
15°	5074.5	5100.7	5179.1	5321.5	5562.8	5859.2	6228.3	6295.2	6533.5	6553.8	6324.2
17.5°	4792.6	4812.9	4865.2	5007.7	5205.3	5586.0	5934.8	6053.9	6367.8	6466.7	6155.7
20°	4682.1	4638.6	4667.6	4757.7	4955.3	5248.9	5699.4	5804.0	6205.1	6399.8	5995.8
22.5°	4632.7	4595.0	4612.4	4606.6	4763.5	4972.8	5446.5	5557.0	6051.0	6321.3	5853.4
25°	4670.5	4670.5	4653.1	4638.6	4656.0	4792.6	5173.3	5344.8	5844.7	6254.5	5708.1
27.5°	4874.0	4795.5	4804.2	4743.2	4725.7	4725.7	5051.3	5153.0	5777.8	6216.7	5588.9
30°	5004.8	5042.5	5045.4	4955.3	4865.2	4702.5	4937.9	5036.7	5722.6	6263.2	5519.2
32.5°	5339.0	5321.5	5272.1	5254.7	5121.0	4937.9	4993.1	5060.0	5690.7	6367.8	5539.5
35°	5673.2	5664.5	5667.4	5658.7	5519.2	5248.9	5141.4	5231.4	5748.8	6550.9	5609.3
37.5°	6019.1	6042.3	6141.1	6141.1	5992.9	5699.4	5557.0	5530.8	5960.9	6850.3	5774.9
40°	6364.9	6423.1	6548.0	6745.7	6536.4	6263.2	6033.6	5992.9	6216.7	7251.4	6173.1
42.5°	6696.3	6792.2	7039.2	7332.7	7263.0	6989.8	6684.6	6638.1	6742.8	7847.2	6728.2
45°	7120.6	7202.0	7591.4	8041.9	8137.8	7896.6	7539.1	7501.3	7495.5	8719.1	7492.6
47.5°	7765.8	7853.0	8242.4	8695.8	8992.3	9030.1	8629.0	8588.3	8448.8	9896.2	8611.5
50°	8573.8	8716.2	9044.6	9573.5	10003.7	10407.7	10294.3	10175.2	9902.0	11265.1	10029.8
52.5°	9163.8	9338.1	9782.8	10460.0	11218.5	11860.9	12267.7	12267.7	11640.0	12767.6	11735.9
55°	9320.7	9425.3	9986.3	10965.7	12264.8	13889.5	14741.1	14677.1	13709.3	14348.7	13720.9
57.5°	8695.8	8832.4	9512.5	10538.5	12814.1	15787.3	17196.9	17211.5	15970.4	16185.5	15679.8
60°	6975.3	7018.9	7821.0	9192.8	12285.2	17316.1	20550.9	20606.1	18542.6	17821.8	16676.7
62.5°	4821.7	4961.2	5565.7	6768.9	10178.1	17144.6	23785.6	24058.8	20603.2	18685.0	16833.6
65°	3173.7	3258.0	3580.6	4313.0	7085.7	14860.2	24791.3	25634.1	22178.4	18734.4	16176.8
67.5°	2301.8	2316.4	2412.3	2790.1	4257.8	10686.7	23073.6	24262.3	22768.4	18321.7	14636.4
70°	1860.1	1871.7	1906.6	2147.8	2749.4	6687.5	18818.7	20681.7	20998.5	16365.7	11788.2
72.5°	1511.3	1525.8	1569.4	1796.1	2267.0	3720.1	13761.6	16031.5	17080.7	12107.9	7835.5
75°	1188.7	1200.3	1305.0	1528.7	2130.4	2554.7	9128.9	11352.2	11494.7	7077.0	3667.8
77.5°	813.8	834.1	962.0	1296.2	2005.4	2235.0	5690.7	7271.7	6524.8	2769.8	1261.4
80°	517.3	546.4	622.0	982.3	1772.9	2133.3	3539.9	4342.1	2857.0	947.5	607.4
82.5°	305.2	334.2	409.8	636.5	1392.1	1979.2	2493.7	2717.4	1339.8	485.4	366.2
85°	168.6	188.9	247.0	383.6	816.7	1758.3	1996.7	1950.2	767.3	258.7	229.6
87.5°	55.2	63.9	90.1	154.0	337.1	828.3	1197.4	1124.8	398.2	119.2	90.1
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°	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1	7103.1
2.5°	7097.3	7088.6	6957.8	6859.0	6690.4	6550.9	6495.7	6420.1	6417.2	6362.0	6347.5
5°	6925.9	6835.8	6635.2	6443.4	6144.0	5943.5	5760.4	5632.5	5580.2	5466.9	5440.7
7.5°	6705.0	6585.8	6277.7	5917.3	5565.7	5251.8	4967.0	4682.1	4522.3	4467.1	4406.0
10°	6475.4	6266.1	5809.8	5405.8	4914.7	4432.2	3984.6	3583.5	3365.6	3211.5	3144.7
12.5°	6292.3	6013.3	5432.0	4827.5	4179.3	3534.1	3013.9	2592.5	2345.4	2229.2	2176.9
15°	6085.9	5716.8	5019.3	4254.9	3446.9	2714.5	2205.9	1874.6	1775.8	1720.6	1711.8
17.5°	5867.9	5440.7	4571.7	3691.1	2732.0	2043.2	1714.8	1581.1	1537.5	1514.2	1502.6
20°	5664.5	5193.7	4112.5	3063.3	2139.1	1639.2	1485.1	1415.4	1412.5	1424.1	1421.2
22.5°	5376.8	4871.1	3659.1	2482.0	1708.9	1427.0	1328.2	1310.8	1328.2	1342.7	1348.6
25°	5214.0	4606.6	3153.4	1970.5	1412.5	1267.2	1235.2	1229.4	1255.5	1273.0	1270.1
27.5°	5045.4	4333.4	2682.6	1578.2	1238.1	1153.8	1148.0	1153.8	1180.0	1206.1	1203.2
30°	4914.7	4115.4	2240.8	1319.5	1104.4	1072.4	1066.6	1072.4	1087.0	1089.9	1089.9
32.5°	4807.1	3856.7	1865.9	1145.1	1023.0	996.9	1002.7	999.8	1002.7	1005.6	1008.5
35°	4743.2	3702.7	1557.8	1037.6	956.2	935.8	932.9	924.2	927.1	930.0	927.1
37.5°	4879.8	3627.1	1313.7	962.0	909.7	892.3	886.4	880.6	871.9	871.9	871.9
40°	5086.1	3586.4	1165.5	912.6	874.8	854.5	837.0	831.2	831.2	834.1	837.0
42.5°	5495.9	3653.3	1063.7	874.8	831.2	808.0	790.5	793.4	802.2	810.9	805.1
45°	6088.8	3856.7	1017.2	845.8	805.1	773.1	761.5	758.6	767.3	781.8	793.4
47.5°	6864.8	4173.5	999.8	819.6	787.6	744.0	729.5	738.2	749.8	770.2	761.5
50°	8134.9	4885.6	1014.3	796.3	761.5	729.5	712.1	703.3	712.1	726.6	732.4
52.5°	9794.4	6178.9	1069.5	784.7	744.0	717.9	688.8	674.3	683.0	694.6	694.6
55°	11779.5	7946.0	1223.6	770.2	715.0	700.4	668.5	639.4	645.2	645.2	642.3
57.5°	13529.1	9280.0	1406.7	749.8	697.5	677.2	636.5	601.6	595.8	598.7	601.6
60°	14313.8	9634.6	1493.9	744.0	697.5	648.1	592.9	558.0	549.3	543.5	543.5
62.5°	14177.2	9021.3	1316.6	717.9	715.0	624.9	552.2	514.4	502.8	491.2	494.1
65°	13351.8	8146.5	1037.6	683.0	717.9	610.3	511.5	473.7	453.4	438.9	436.0
67.5°	11843.4	6954.9	822.5	656.8	688.8	584.2	476.6	433.0	415.6	401.1	395.3
70°	9265.5	5452.3	715.0	622.0	619.1	520.2	436.0	398.2	372.0	354.6	354.6
72.5°	6007.4	3446.9	613.2	552.2	534.8	436.0	377.8	354.6	334.2	319.7	319.7
75°	2720.4	1601.4	494.1	462.1	436.0	348.8	319.7	308.1	290.6	276.1	276.1
77.5°	976.5	683.0	369.1	363.3	325.5	270.3	258.7	249.9	238.3	223.8	223.8
80°	546.4	433.0	276.1	264.5	226.7	200.5	186.0	186.0	180.2	171.5	168.6
82.5°	345.9	281.9	203.4	177.3	148.2	133.7	127.9	125.0	122.1	110.4	107.5
85°	218.0	191.8	133.7	104.6	87.2	66.8	63.9	61.0	55.2	49.4	49.4
87.5°	98.8	110.4	52.3	32.0	23.3	14.5	8.7	2.9	0.0	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)