

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: P480446

Luminaire Tested: **IFLD-L-SA7D-730-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480446  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

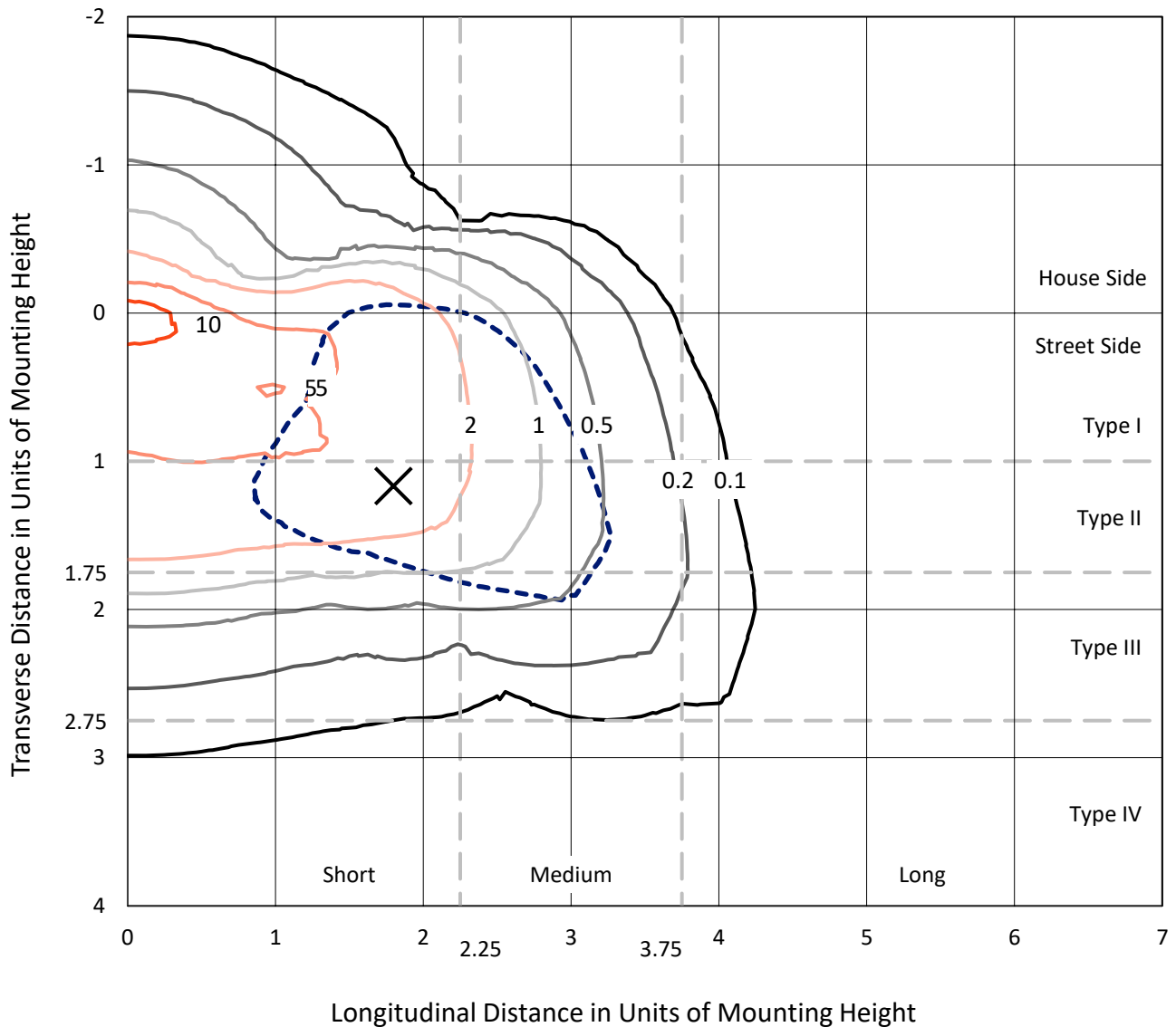
Lumens per Lamp: N/A  
Luminaire Lumens: 43828.6 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

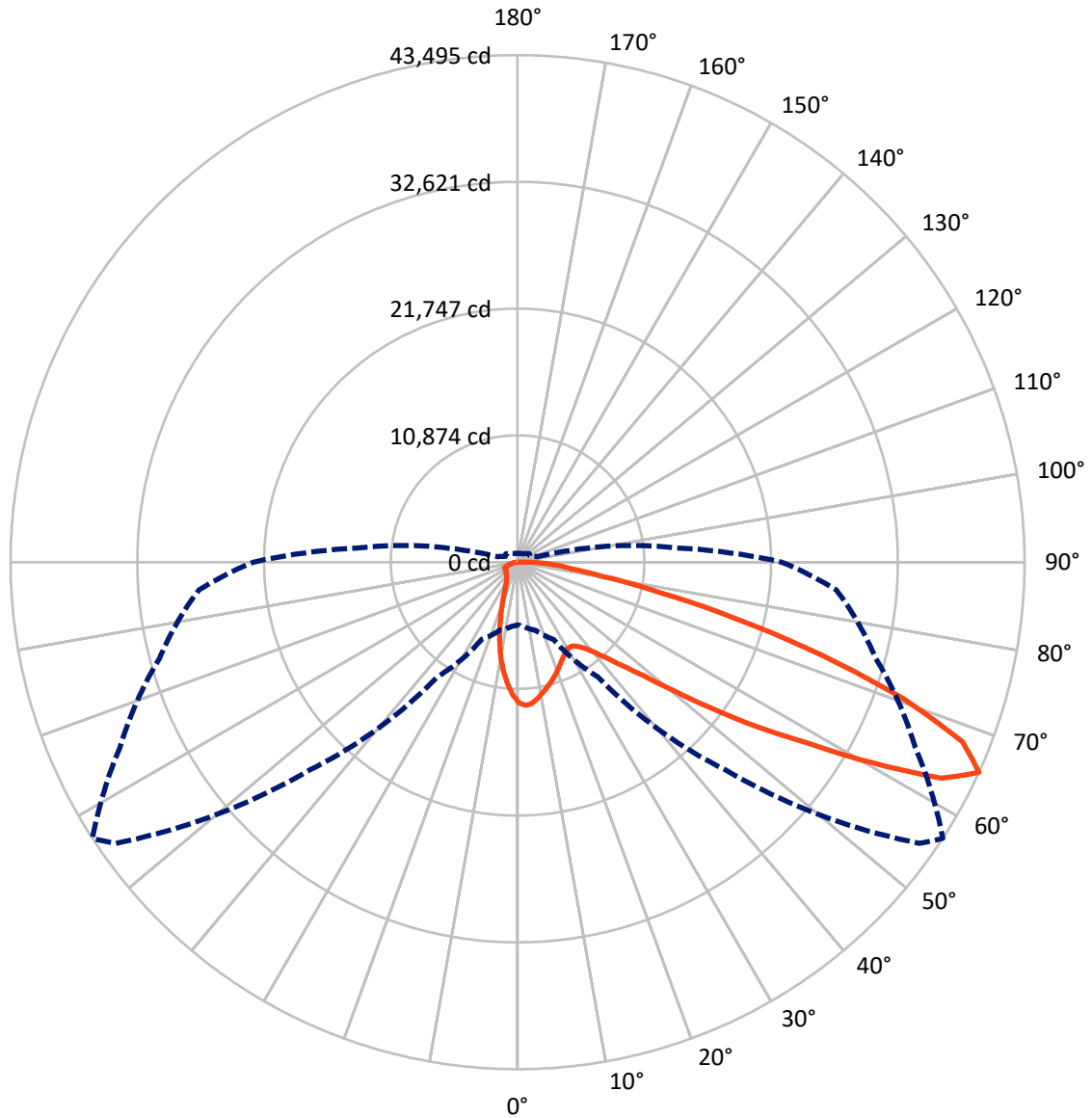
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 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	6721.5	0.0	6721.5
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	37107.1	0.0	37107.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	43828.6	0.0	43828.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1009.3	2.3
10°-20°	2172.1	5.0
20°-30°	2808.4	6.4
30°-40°	3779.2	8.6
40°-50°	6026.0	13.7
50°-60°	10643.4	24.3
60°-70°	11709.2	26.7
70°-80°	4898.2	11.2
80°-90°	782.8	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°	43828.6	100.0
0°-180°	43828.6	100.0

**Coefficient of Utilization**



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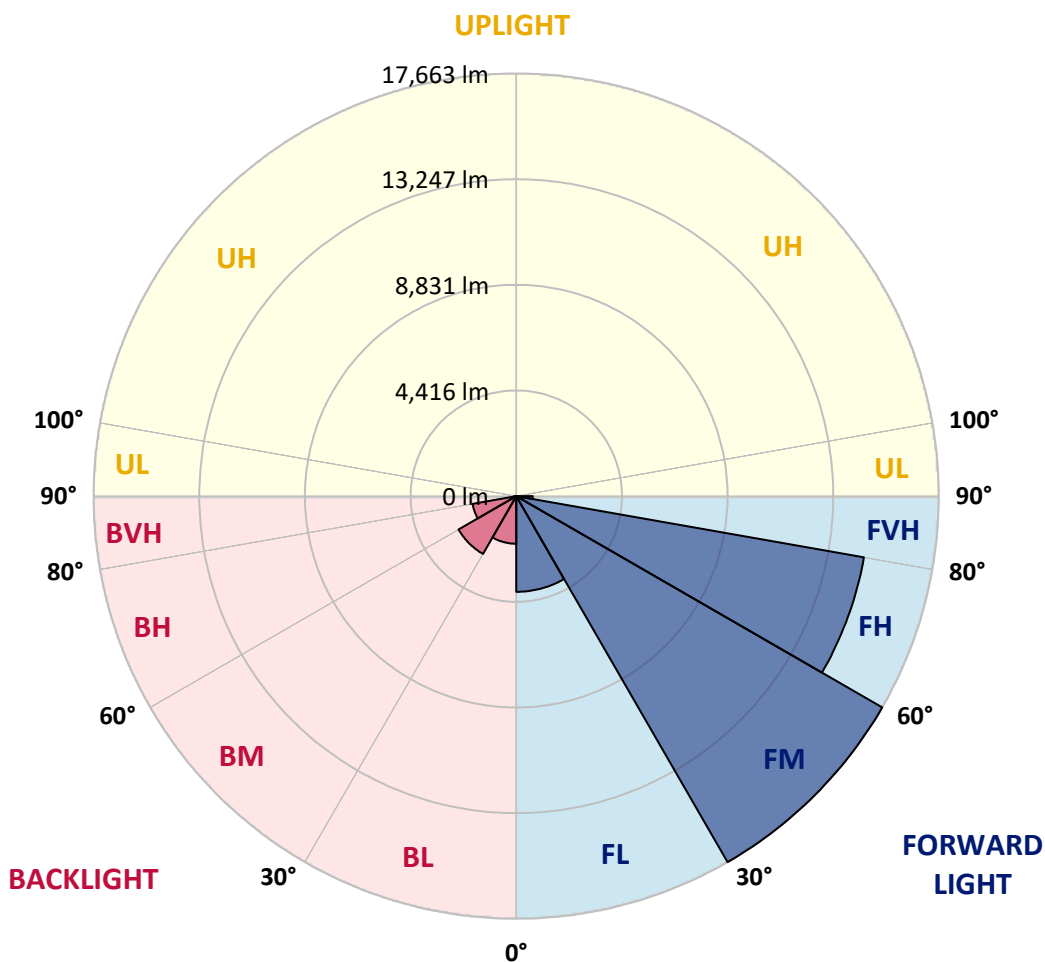
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3999.2	9.1			
FM (30°-60°)	17662.9	40.3			
FH (60°-80°)	14754.0	33.7			G5
FVH (80°-90°)	691.0	1.6			G4/750
BL (0°-30°)	1990.6	4.5	B3/2500		
BM (30°-60°)	2785.8	6.4	B3/5000		
BH (60°-80°)	1853.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	91.8	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2
2.5°	12377.7	12397.4	12397.4	12436.9	12303.7	12367.9	12358.0	12298.8	12318.5	12215.0	12111.4
5°	12027.6	12012.8	12091.7	12101.6	12205.1	12234.7	12259.4	12219.9	12229.8	12002.9	11904.3
7.5°	11130.1	11125.2	11258.3	11371.7	11588.7	11790.9	11924.0	11884.6	11938.8	11795.8	11564.0
10°	10064.9	10178.3	10316.4	10429.8	10829.3	11085.7	11430.9	11465.4	11672.5	11638.0	11218.8
12.5°	9266.0	9315.3	9418.9	9744.4	10109.3	10533.4	11026.5	11070.9	11273.1	11371.7	11006.8
15°	8610.2	8654.5	8787.7	9029.3	9438.6	9941.6	10567.9	10681.3	11085.7	11120.2	10730.6
17.5°	8131.8	8166.3	8255.1	8496.7	8832.1	9478.1	10069.8	10272.0	10804.6	10972.3	10444.6
20°	7944.4	7870.5	7919.8	8072.6	8408.0	8906.0	9670.4	9847.9	10528.5	10858.9	10173.4
22.5°	7860.6	7796.5	7826.1	7816.2	8082.5	8437.6	9241.4	9428.8	10267.1	10725.7	9931.8
25°	7924.7	7924.7	7895.1	7870.5	7900.0	8131.8	8777.8	9068.8	9917.0	10612.3	9685.2
27.5°	8269.9	8136.7	8151.5	8048.0	8018.4	8018.4	8570.7	8743.3	9803.5	10548.2	9483.0
30°	8491.8	8555.9	8560.8	8408.0	8255.1	7978.9	8378.4	8546.0	9709.9	10627.1	9364.7
32.5°	9058.9	9029.3	8945.5	8915.9	8689.1	8378.4	8472.1	8585.5	9655.6	10804.6	9399.2
35°	9626.0	9611.2	9616.2	9601.4	9364.7	8906.0	8723.6	8876.4	9754.2	11115.3	9517.5
37.5°	10212.8	10252.3	10420.0	10420.0	10168.5	9670.4	9428.8	9384.4	10114.2	11623.2	9798.6
40°	10799.7	10898.3	11110.4	11445.7	11090.6	10627.1	10237.5	10168.5	10548.2	12303.7	10474.2
42.5°	11361.9	11524.6	11943.8	12441.8	12323.5	11859.9	11342.1	11263.2	11440.8	13314.7	11416.1
45°	12081.8	12219.9	12880.7	13645.1	13807.8	13398.5	12792.0	12727.8	12718.0	14794.1	12713.0
47.5°	13176.6	13324.5	13985.3	14754.6	15257.6	15321.7	14641.2	14572.2	14335.5	16791.3	14611.6
50°	14547.5	14789.2	15346.4	16243.9	16973.7	17659.2	17466.9	17264.7	16801.1	19114.0	17018.1
52.5°	15548.6	15844.5	16599.0	17748.0	19035.1	20124.9	20815.3	20815.3	19750.1	21663.5	19912.8
55°	15814.9	15992.4	16944.2	18606.0	20810.3	23567.0	25011.9	24903.4	23261.2	24346.1	23281.0
57.5°	14754.6	14986.4	16140.3	17881.1	21742.4	26787.2	29178.9	29203.5	27097.8	27462.7	26604.7
60°	11835.3	11909.2	13270.3	15597.9	20844.9	29381.0	34869.7	34963.4	31462.1	30239.1	28296.2
62.5°	8181.1	8417.8	9443.6	11485.1	17269.6	29090.1	40358.3	40821.8	34958.4	31703.7	28562.4
65°	5385.0	5528.1	6075.4	7318.1	12022.7	25214.0	42064.5	43494.6	37631.2	31787.6	27448.0
67.5°	3905.6	3930.3	4093.0	4734.1	7224.4	18132.6	39150.1	41167.0	38632.3	31087.3	24834.3
70°	3156.1	3175.8	3235.0	3644.3	4665.1	11347.1	31930.6	35091.6	35629.1	27768.5	20001.6
72.5°	2564.3	2589.0	2662.9	3047.6	3846.5	6312.1	23350.0	27201.4	28981.6	20544.1	13294.9
75°	2016.9	2036.7	2214.2	2593.9	3614.7	4334.7	15489.4	19261.9	19503.5	12007.9	6223.4
77.5°	1380.8	1415.3	1632.3	2199.4	3402.6	3792.2	9655.6	12338.3	11070.9	4699.6	2140.2
80°	877.8	927.1	1055.3	1666.8	3008.1	3619.6	6006.4	7367.5	4847.5	1607.6	1030.7
82.5°	517.8	567.1	695.3	1080.0	2362.1	3358.3	4231.1	4610.8	2273.4	823.5	621.4
85°	286.0	320.5	419.2	650.9	1385.7	2983.5	3387.8	3308.9	1301.9	438.9	389.6
87.5°	93.7	108.5	152.9	261.4	572.0	1405.4	2031.7	1908.4	675.6	202.2	152.9
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°	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2	12052.2
2.5°	12042.4	12027.6	11805.7	11638.0	11352.0	11115.3	11021.6	10893.4	10888.4	10794.7	10770.1
5°	11751.4	11598.6	11258.3	10932.8	10424.9	10084.6	9774.0	9557.0	9468.2	9275.9	9231.5
7.5°	11376.7	11174.5	10651.7	10040.3	9443.6	8911.0	8427.7	7944.4	7673.2	7579.5	7475.9
10°	10987.1	10632.0	9857.8	9172.3	8338.9	7520.3	6760.9	6080.4	5710.5	5449.2	5335.7
12.5°	10676.4	10203.0	9216.7	8191.0	7091.3	5996.5	5113.8	4398.8	3979.6	3782.4	3693.6
15°	10326.3	9700.0	8516.5	7219.5	5848.6	4605.9	3742.9	3180.7	3013.1	2919.4	2904.6
17.5°	9956.4	9231.5	7757.0	6262.8	4635.5	3466.7	2909.5	2682.7	2608.7	2569.2	2549.5
20°	9611.2	8812.3	6977.9	5197.7	3629.5	2781.3	2519.9	2401.6	2396.6	2416.4	2411.4
22.5°	9123.0	8265.0	6208.6	4211.4	2899.6	2421.3	2253.6	2224.0	2253.6	2278.3	2288.2
25°	8846.9	7816.2	5350.5	3343.5	2396.6	2150.1	2095.8	2086.0	2130.3	2159.9	2155.0
27.5°	8560.8	7352.7	4551.6	2677.7	2100.8	1957.8	1947.9	1957.8	2002.1	2046.5	2041.6
30°	8338.9	6982.8	3802.1	2238.8	1873.9	1819.7	1809.8	1819.7	1844.3	1849.3	1849.3
32.5°	8156.5	6543.9	3165.9	1943.0	1735.8	1691.5	1701.3	1696.4	1701.3	1706.3	1711.2
35°	8048.0	6282.6	2643.2	1760.5	1622.4	1587.9	1583.0	1568.2	1573.1	1578.0	1573.1
37.5°	8279.8	6154.3	2229.0	1632.3	1543.5	1513.9	1504.1	1494.2	1479.4	1479.4	1479.4
40°	8629.9	6085.3	1977.5	1548.4	1484.3	1449.8	1420.2	1410.4	1410.4	1415.3	1420.2
42.5°	9325.2	6198.7	1804.9	1484.3	1410.4	1370.9	1341.3	1346.3	1361.1	1375.8	1366.0
45°	10331.2	6543.9	1726.0	1435.0	1366.0	1311.7	1292.0	1287.1	1301.9	1326.5	1346.3
47.5°	11647.9	7081.4	1696.4	1390.6	1336.4	1262.4	1237.8	1252.6	1272.3	1306.8	1292.0
50°	13802.9	8289.6	1721.0	1351.2	1292.0	1237.8	1208.2	1193.4	1208.2	1232.8	1242.7
52.5°	16618.7	10484.1	1814.7	1331.5	1262.4	1218.0	1168.7	1144.1	1158.9	1178.6	1178.6
55°	19986.8	13482.3	2076.1	1306.8	1213.1	1188.5	1134.2	1084.9	1094.8	1094.8	1089.8
57.5°	22955.5	15745.8	2386.8	1272.3	1183.5	1149.0	1080.0	1020.8	1010.9	1015.9	1020.8
60°	24287.0	16347.5	2534.7	1262.4	1183.5	1099.7	1006.0	946.8	932.0	922.2	922.2
62.5°	24055.2	15306.9	2233.9	1218.0	1213.1	1060.2	937.0	872.9	853.1	833.4	838.3
65°	22654.7	13822.6	1760.5	1158.9	1218.0	1035.6	867.9	803.8	769.3	744.6	739.7
67.5°	20095.3	11800.7	1395.6	1114.5	1168.7	991.2	808.7	734.8	705.2	680.5	670.7
70°	15721.2	9251.2	1213.1	1055.3	1050.4	882.7	739.7	675.6	631.2	601.6	601.6
72.5°	10193.1	5848.6	1040.5	937.0	907.4	739.7	641.1	601.6	567.1	542.4	542.4
75°	4615.8	2717.2	838.3	784.1	739.7	591.8	542.4	522.7	493.1	468.5	468.5
77.5°	1656.9	1158.9	626.3	616.4	552.3	458.6	438.9	424.1	404.4	379.7	379.7
80°	927.1	734.8	468.5	448.8	384.6	340.3	315.6	315.6	305.7	291.0	286.0
82.5°	586.8	478.3	345.2	300.8	251.5	226.8	217.0	212.0	207.1	187.4	182.5
85°	369.9	325.5	226.8	177.5	147.9	113.4	108.5	103.6	93.7	83.8	83.8
87.5°	167.7	187.4	88.8	54.2	39.5	24.7	14.8	4.9	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)