

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: P480487

Luminaire Tested: **IFLD-L-SA8A-735-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480487  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-735-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

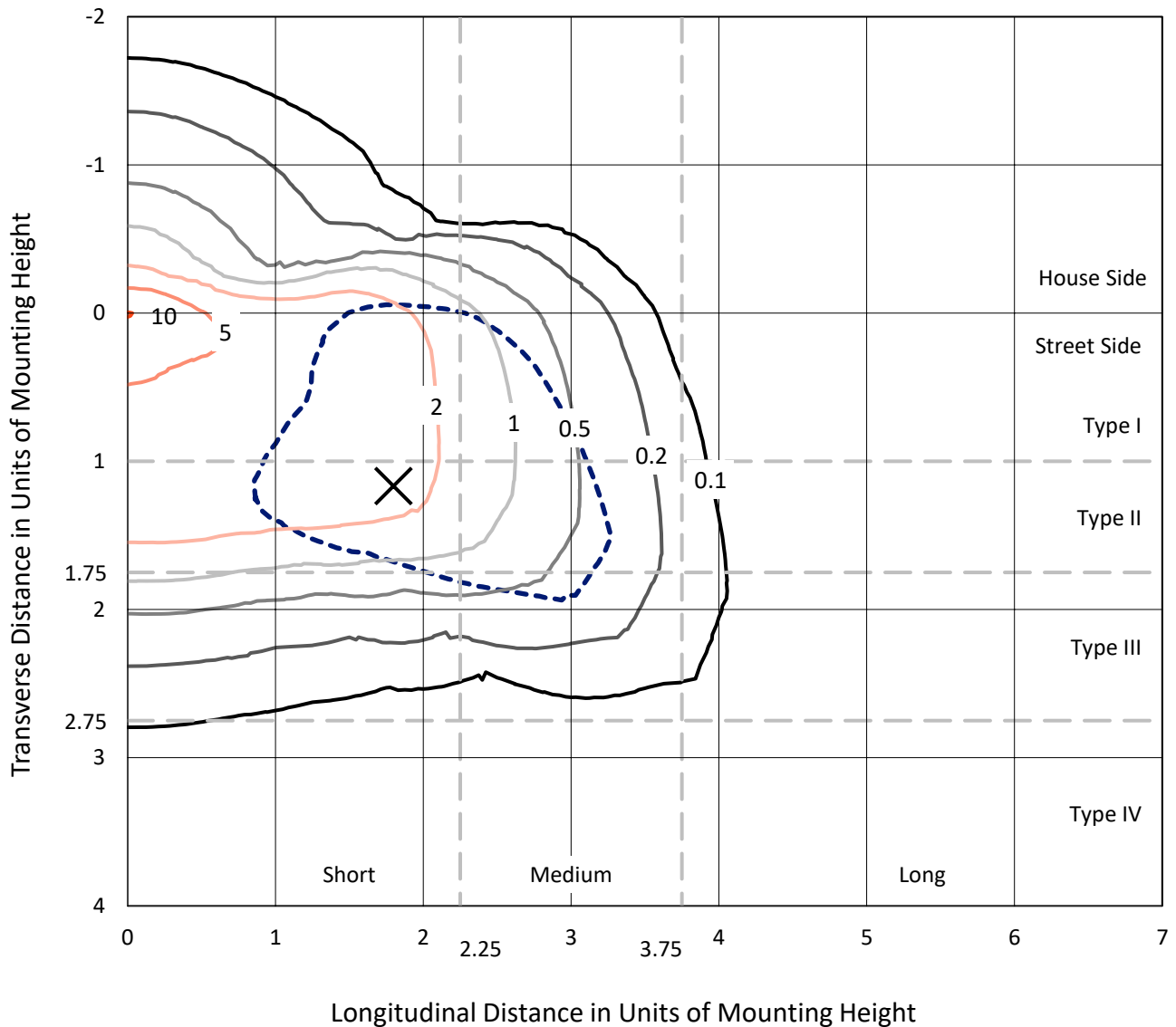
Lumens per Lamp: N/A  
Luminaire Lumens: 33338.4 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

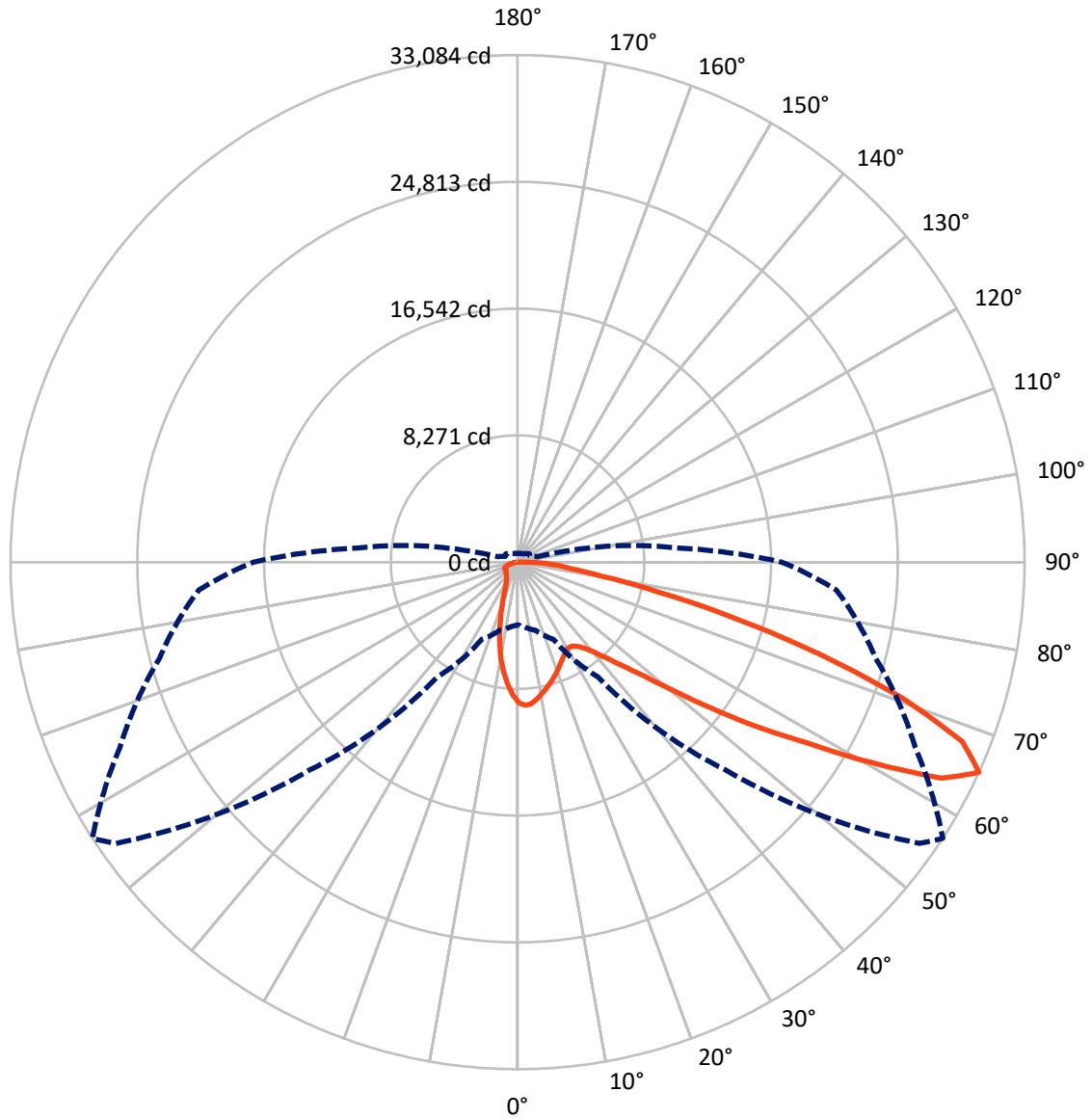
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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	5112.8	0.0	5112.8
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	28225.7	0.0	28225.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	33338.4	0.0	33338.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	767.7	2.3
10°-20°	1652.2	5.0
20°-30°	2136.2	6.4
30°-40°	2874.6	8.6
40°-50°	4583.7	13.7
50°-60°	8096.0	24.3
60°-70°	8906.7	26.7
70°-80°	3725.8	11.2
80°-90°	595.5	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°	33338.4	100.0
0°-180°	33338.4	100.0

**Coefficient of Utilization**



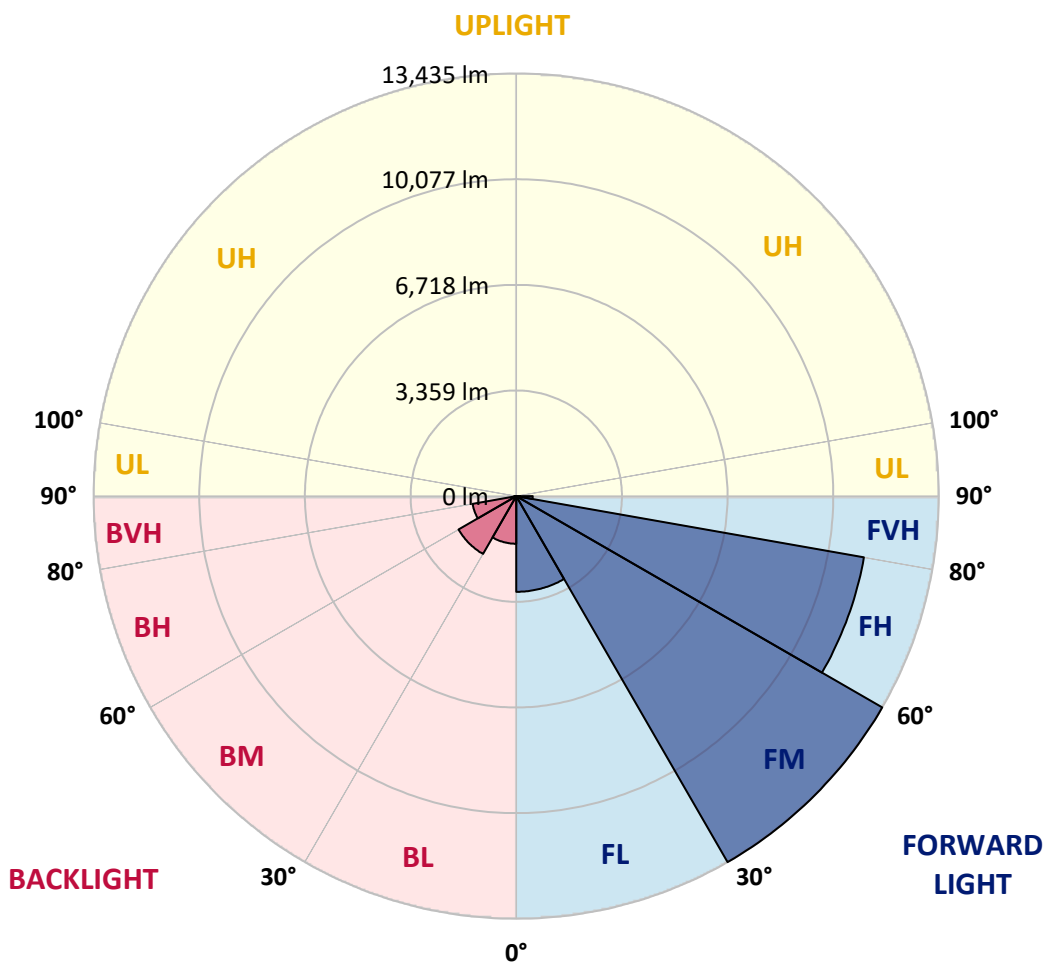
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3042.0	9.1			
FM (30°-60°)	13435.3	40.3			
FH (60°-80°)	11222.7	33.7			G4/12000
FVH (80°-90°)	525.6	1.6			G4/750
BL (0°-30°)	1514.2	4.5	B3/2500		
BM (30°-60°)	2119.0	6.4	B2/2500		
BH (60°-80°)	1409.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	69.9	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6
2.5°	9415.2	9430.2	9430.2	9460.2	9358.9	9407.7	9400.2	9355.2	9370.2	9291.4	9212.6
5°	9148.8	9137.6	9197.6	9205.1	9283.9	9306.4	9325.1	9295.1	9302.6	9130.1	9055.1
7.5°	8466.1	8462.4	8563.7	8650.0	8815.0	8968.8	9070.1	9040.1	9081.3	8972.5	8796.2
10°	7655.9	7742.2	7847.2	7933.5	8237.3	8432.4	8695.0	8721.2	8878.8	8852.5	8533.7
12.5°	7048.2	7085.8	7164.5	7412.1	7689.7	8012.3	8387.4	8421.1	8574.9	8650.0	8372.4
15°	6549.4	6583.1	6684.4	6868.2	7179.5	7562.1	8038.5	8124.8	8432.4	8458.6	8162.3
17.5°	6185.5	6211.8	6279.3	6463.1	6718.2	7209.5	7659.7	7813.5	8218.6	8346.1	7944.8
20°	6043.0	5986.7	6024.2	6140.5	6395.6	6774.4	7355.8	7490.9	8008.5	8259.8	7738.4
22.5°	5979.2	5930.4	5952.9	5945.4	6148.0	6418.1	7029.5	7172.0	7809.7	8158.6	7554.6
25°	6028.0	6028.0	6005.5	5986.7	6009.2	6185.5	6676.9	6898.2	7543.4	8072.3	7367.1
27.5°	6290.5	6189.3	6200.5	6121.7	6099.2	6099.2	6519.3	6650.6	7457.1	8023.5	7213.3
30°	6459.3	6508.1	6511.8	6395.6	6279.3	6069.2	6373.1	6500.6	7385.8	8083.5	7123.3
32.5°	6890.7	6868.2	6804.4	6781.9	6609.4	6373.1	6444.3	6530.6	7344.6	8218.6	7149.5
35°	7322.1	7310.8	7314.6	7303.3	7123.3	6774.4	6635.6	6751.9	7419.6	8454.9	7239.6
37.5°	7768.5	7798.5	7926.0	7926.0	7734.7	7355.8	7172.0	7138.3	7693.4	8841.3	7453.4
40°	8214.8	8289.8	8451.1	8706.2	8436.1	8083.5	7787.2	7734.7	8023.5	9358.9	7967.3
42.5°	8642.4	8766.2	9085.1	9463.9	9373.9	9021.3	8627.4	8567.4	8702.5	10127.9	8683.7
45°	9190.1	9295.1	9797.8	10379.2	10503.0	10191.6	9730.3	9681.5	9674.0	11253.2	9670.2
47.5°	10022.8	10135.4	10638.0	11223.2	11605.8	11654.6	11136.9	11084.4	10904.3	12772.4	11114.4
50°	11065.6	11249.4	11673.3	12356.0	12911.2	13432.6	13286.3	13132.5	12779.9	14539.1	12944.9
52.5°	11827.1	12052.2	12626.1	13500.1	14479.1	15308.1	15833.2	15833.2	15023.0	16478.4	15146.8
55°	12029.7	12164.7	12888.7	14152.8	15829.5	17926.3	19025.4	18942.9	17693.8	18519.0	17708.8
57.5°	11223.2	11399.5	12277.2	13601.4	16538.4	20375.8	22195.0	22213.8	20612.1	20889.7	20237.0
60°	9002.6	9058.8	10094.1	11864.6	15855.7	22348.8	26523.8	26595.0	23931.8	23001.5	21523.6
62.5°	6223.0	6403.1	7183.3	8736.2	13136.2	22127.5	30698.7	31051.3	26591.3	24115.6	21726.2
65°	4096.2	4204.9	4621.3	5566.6	9145.1	19179.2	31996.6	33084.4	28624.4	24179.4	20878.4
67.5°	2970.8	2989.6	3113.4	3601.0	5495.3	13792.7	29779.7	31313.9	29385.8	23646.7	18890.4
70°	2400.7	2415.7	2460.7	2772.0	3548.5	8631.2	24288.1	26692.6	27101.4	21122.2	15214.3
72.5°	1950.6	1969.3	2025.6	2318.2	2925.8	4801.4	17761.3	20690.9	22045.0	15626.9	10112.9
75°	1534.2	1549.2	1684.2	1973.1	2749.5	3297.2	11782.1	14651.7	14835.5	9133.8	4733.8
77.5°	1050.3	1076.6	1241.6	1673.0	2588.2	2884.6	7344.6	9385.2	8421.1	3574.8	1628.0
80°	667.7	705.2	802.7	1267.9	2288.1	2753.3	4568.8	5604.1	3687.3	1222.8	784.0
82.5°	393.9	431.4	528.9	821.5	1796.8	2554.5	3218.4	3507.2	1729.2	626.4	472.6
85°	217.6	243.8	318.8	495.1	1054.0	2269.4	2577.0	2517.0	990.3	333.8	296.3
87.5°	71.3	82.5	116.3	198.8	435.1	1069.1	1545.4	1451.7	513.9	153.8	116.3
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°	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6	9167.6
2.5°	9160.1	9148.8	8980.0	8852.5	8634.9	8454.9	8383.6	8286.1	8282.3	8211.1	8192.3
5°	8938.8	8822.5	8563.7	8316.1	7929.7	7670.9	7434.6	7269.6	7202.0	7055.7	7022.0
7.5°	8653.7	8499.9	8102.3	7637.2	7183.3	6778.2	6410.6	6043.0	5836.7	5765.4	5686.6
10°	8357.4	8087.3	7498.4	6977.0	6343.0	5720.4	5142.7	4625.1	4343.7	4144.9	4058.6
12.5°	8121.1	7760.9	7010.7	6230.5	5394.0	4561.3	3889.9	3345.9	3027.1	2877.1	2809.5
15°	7854.7	7378.3	6478.1	5491.6	4448.8	3503.5	2847.1	2419.4	2291.9	2220.6	2209.4
17.5°	7573.4	7022.0	5900.4	4763.8	3526.0	2637.0	2213.1	2040.6	1984.3	1954.3	1939.3
20°	7310.8	6703.1	5307.8	3953.6	2760.8	2115.6	1916.8	1826.8	1823.0	1838.0	1834.3
22.5°	6939.5	6286.8	4722.6	3203.4	2205.6	1841.8	1714.2	1691.7	1714.2	1733.0	1740.5
25°	6729.4	5945.4	4069.9	2543.2	1823.0	1635.5	1594.2	1586.7	1620.5	1643.0	1639.2
27.5°	6511.8	5592.8	3462.2	2036.8	1598.0	1489.2	1481.7	1489.2	1522.9	1556.7	1552.9
30°	6343.0	5311.5	2892.1	1703.0	1425.4	1384.1	1376.6	1384.1	1402.9	1406.6	1406.6
32.5°	6204.3	4977.7	2408.2	1477.9	1320.4	1286.6	1294.1	1290.4	1294.1	1297.9	1301.6
35°	6121.7	4778.9	2010.6	1339.1	1234.1	1207.8	1204.1	1192.8	1196.6	1200.3	1196.6
37.5°	6298.0	4681.3	1695.5	1241.6	1174.1	1151.6	1144.1	1136.6	1125.3	1125.3	1125.3
40°	6564.4	4628.8	1504.2	1177.8	1129.1	1102.8	1080.3	1072.8	1072.8	1076.6	1080.3
42.5°	7093.3	4715.1	1372.9	1129.1	1072.8	1042.8	1020.3	1024.0	1035.3	1046.5	1039.0
45°	7858.5	4977.7	1312.9	1091.6	1039.0	997.8	982.8	979.0	990.3	1009.0	1024.0
47.5°	8860.0	5386.5	1290.4	1057.8	1016.5	960.3	941.5	952.8	967.8	994.0	982.8
50°	10499.2	6305.5	1309.1	1027.8	982.8	941.5	919.0	907.8	919.0	937.8	945.3
52.5°	12641.1	7974.8	1380.4	1012.8	960.3	926.5	889.0	870.2	881.5	896.5	896.5
55°	15203.1	10255.4	1579.2	994.0	922.8	904.0	862.7	825.2	832.7	832.7	829.0
57.5°	17461.2	11977.1	1815.5	967.8	900.3	874.0	821.5	776.5	769.0	772.7	776.5
60°	18474.0	12434.8	1928.0	960.3	900.3	836.5	765.2	720.2	709.0	701.4	701.4
62.5°	18297.7	11643.3	1699.2	926.5	922.8	806.5	712.7	663.9	648.9	633.9	637.7
65°	17232.4	10514.2	1339.1	881.5	926.5	787.7	660.2	611.4	585.2	566.4	562.7
67.5°	15285.6	8976.3	1061.6	847.7	889.0	754.0	615.2	558.9	536.4	517.6	510.1
70°	11958.4	7037.0	922.8	802.7	799.0	671.4	562.7	513.9	480.1	457.6	457.6
72.5°	7753.4	4448.8	791.5	712.7	690.2	562.7	487.6	457.6	431.4	412.6	412.6
75°	3511.0	2066.8	637.7	596.4	562.7	450.1	412.6	397.6	375.1	356.4	356.4
77.5°	1260.4	881.5	476.4	468.9	420.1	348.8	333.8	322.6	307.6	288.8	288.8
80°	705.2	558.9	356.4	341.3	292.6	258.8	240.1	240.1	232.6	221.3	217.6
82.5°	446.4	363.9	262.6	228.8	191.3	172.5	165.0	161.3	157.5	142.5	138.8
85°	281.3	247.6	172.5	135.0	112.5	86.3	82.5	78.8	71.3	63.8	63.8
87.5°	127.5	142.5	67.5	41.3	30.0	18.8	11.3	3.8	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)