

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: P480444

Luminaire Tested: **IFLD-L-SA7B-730-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480444  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-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**

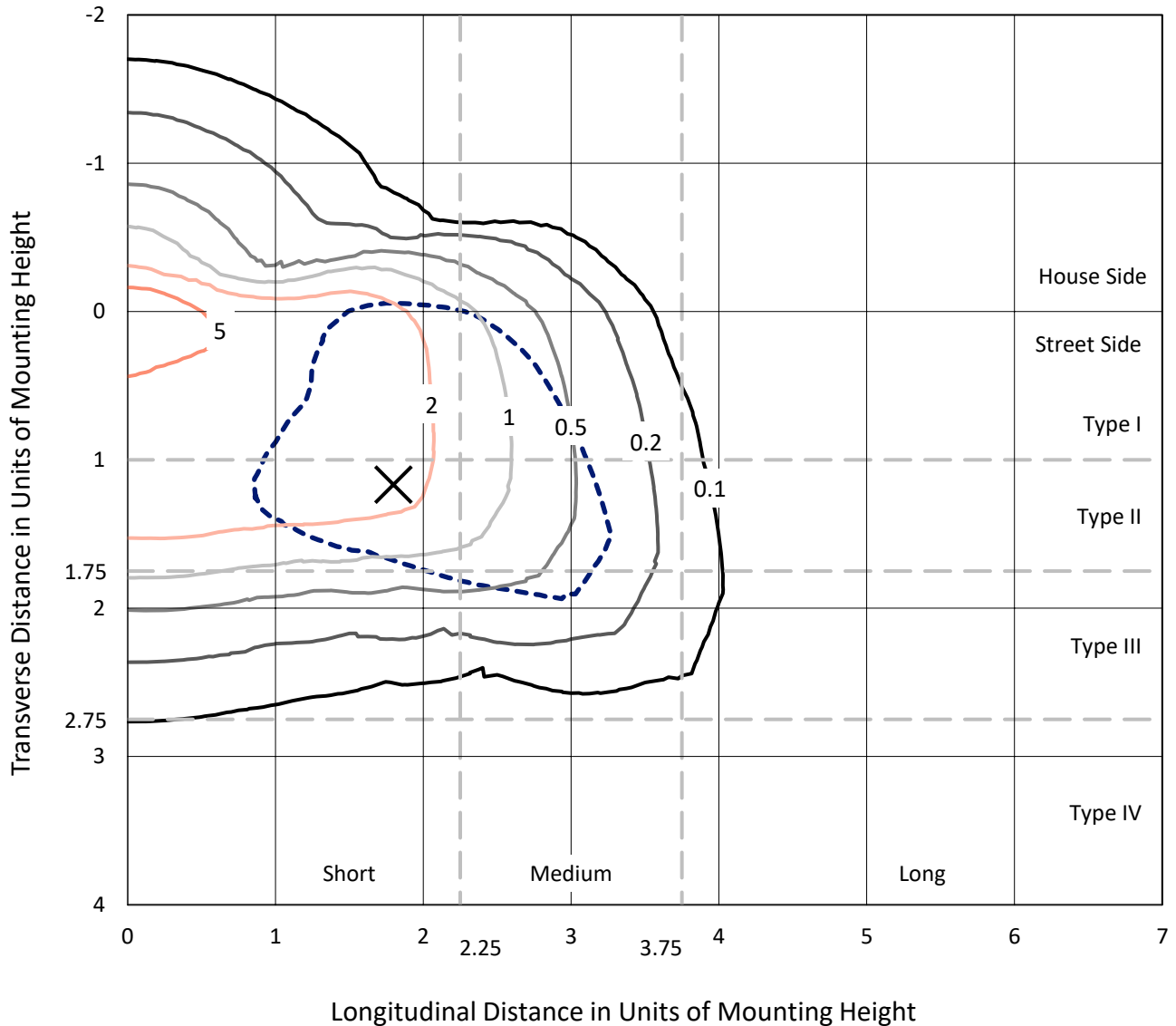
Lumens per Lamp: N/A  
Luminaire Lumens: 31997.9 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

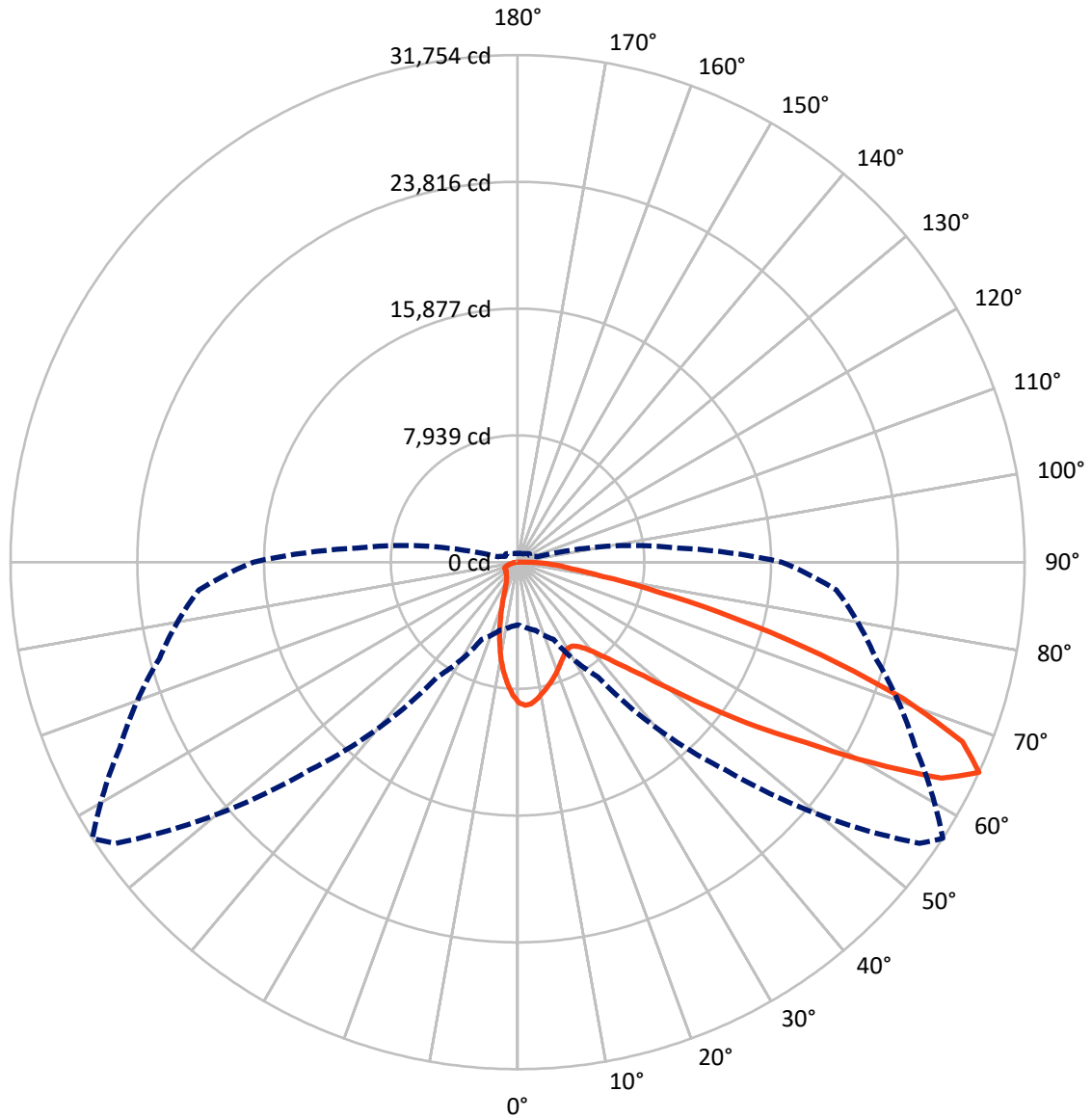
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 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	4907.2	0.0	4907.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	27090.7	0.0	27090.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	31997.9	0.0	31997.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	736.8	2.3
10°-20°	1585.8	5.0
20°-30°	2050.3	6.4
30°-40°	2759.0	8.6
40°-50°	4399.4	13.7
50°-60°	7770.5	24.3
60°-70°	8548.5	26.7
70°-80°	3576.0	11.2
80°-90°	571.5	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°	31997.9	100.0
0°-180°	31997.9	100.0

**Coefficient of Utilization**



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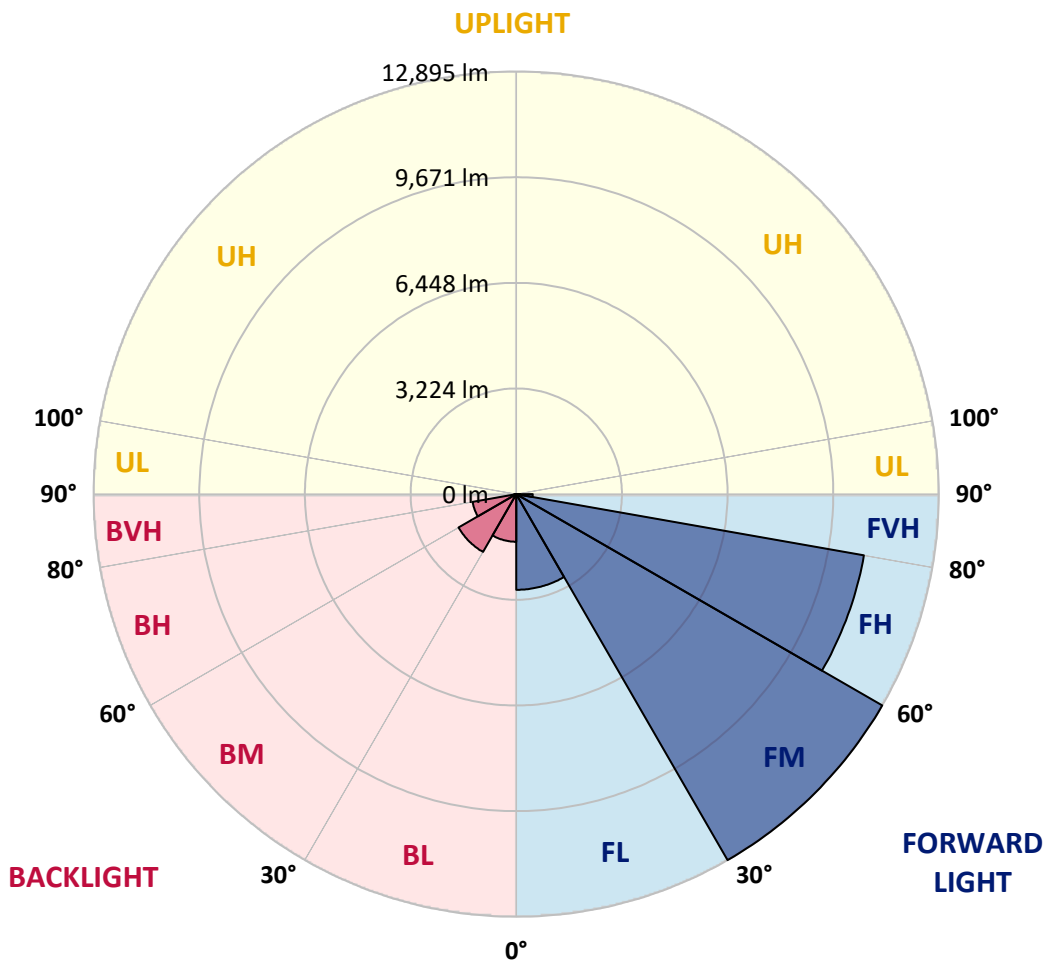
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2919.7	9.1			
FM (30°-60°)	12895.1	40.3			
FH (60°-80°)	10771.4	33.7			G4/12000
FVH (80°-90°)	504.5	1.6			G4/750
BL (0°-30°)	1453.3	4.5	B3/2500		
BM (30°-60°)	2033.8	6.4	B2/2500		
BH (60°-80°)	1353.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	67.0	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°	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0
2.5°	9036.6	9051.0	9051.0	9079.8	8982.6	9029.4	9022.2	8979.0	8993.4	8917.8	8842.2
5°	8781.0	8770.2	8827.8	8835.0	8910.6	8932.2	8950.2	8921.4	8928.6	8763.0	8691.0
7.5°	8125.7	8122.1	8219.3	8302.1	8460.5	8608.2	8705.4	8676.6	8716.2	8611.8	8442.5
10°	7348.1	7430.9	7531.7	7614.5	7906.1	8093.3	8345.3	8370.5	8521.8	8496.6	8190.5
12.5°	6764.8	6800.8	6876.4	7114.1	7380.5	7690.1	8050.1	8082.5	8230.1	8302.1	8035.7
15°	6286.0	6318.4	6415.6	6592.0	6890.8	7258.1	7715.3	7798.1	8093.3	8118.5	7834.1
17.5°	5936.8	5962.0	6026.8	6203.2	6448.0	6919.6	7351.7	7499.3	7888.1	8010.5	7625.3
20°	5800.0	5746.0	5782.0	5893.6	6138.4	6502.0	7060.1	7189.7	7686.5	7927.7	7427.3
22.5°	5738.8	5692.0	5713.6	5706.4	5900.8	6160.0	6746.8	6883.6	7495.7	7830.5	7250.9
25°	5785.6	5785.6	5764.0	5746.0	5767.6	5936.8	6408.4	6620.8	7240.1	7747.7	7070.9
27.5°	6037.6	5940.4	5951.2	5875.6	5854.0	5854.0	6257.2	6383.2	7157.3	7700.9	6923.2
30°	6199.6	6246.4	6250.0	6138.4	6026.8	5825.2	6116.8	6239.2	7088.9	7758.5	6836.8
32.5°	6613.6	6592.0	6530.8	6509.2	6343.6	6116.8	6185.2	6268.0	7049.3	7888.1	6862.0
35°	7027.7	7016.9	7020.5	7009.7	6836.8	6502.0	6368.8	6480.4	7121.3	8114.9	6948.4
37.5°	7456.1	7484.9	7607.3	7607.3	7423.7	7060.1	6883.6	6851.2	7384.1	8485.7	7153.7
40°	7884.5	7956.5	8111.3	8356.1	8096.9	7758.5	7474.1	7423.7	7700.9	8982.6	7646.9
42.5°	8294.9	8413.7	8719.8	9083.4	8997.0	8658.6	8280.5	8222.9	8352.5	9720.6	8334.5
45°	8820.6	8921.4	9403.8	9961.8	10080.7	9781.8	9339.0	9292.2	9285.0	10800.7	9281.4
47.5°	9619.8	9727.8	10210.3	10771.9	11139.1	11185.9	10689.1	10638.7	10465.9	12258.8	10667.5
50°	10620.7	10797.1	11203.9	11859.2	12392.0	12892.4	12752.0	12604.4	12266.0	13954.5	12424.4
52.5°	11351.5	11567.5	12118.4	12957.2	13896.9	14692.6	15196.6	15196.6	14418.9	15815.8	14537.7
55°	11545.9	11675.6	12370.4	13583.7	15193.0	17205.5	18260.4	18181.2	16982.3	17774.4	16996.7
57.5°	10771.9	10941.1	11783.6	13054.4	15873.4	19556.5	21302.6	21320.6	19783.3	20049.7	19423.3
60°	8640.6	8694.6	9688.2	11387.5	15218.2	21450.2	25457.2	25525.7	22969.5	22076.6	20658.1
62.5°	5972.8	6145.6	6894.4	8384.9	12608.0	21237.8	29464.3	29802.7	25522.1	23145.9	20852.5
65°	3931.5	4035.9	4435.5	5342.7	8777.4	18408.0	30710.0	31754.1	27473.4	23207.1	20038.9
67.5°	2851.4	2869.4	2988.2	3456.2	5274.3	13238.1	28582.3	30054.7	28204.2	22695.9	18130.8
70°	2304.1	2318.6	2361.8	2660.6	3405.8	8284.1	23311.5	25619.3	26011.7	20272.9	14602.5
72.5°	1872.1	1890.1	1944.1	2224.9	2808.2	4608.3	17047.1	19858.9	21158.6	14998.6	9706.2
75°	1472.5	1486.9	1616.5	1893.7	2639.0	3164.6	11308.3	14062.5	14238.9	8766.6	4543.5
77.5°	1008.1	1033.3	1191.7	1605.7	2484.2	2768.6	7049.3	9007.8	8082.5	3431.0	1562.5
80°	640.8	676.8	770.4	1216.9	2196.1	2642.6	4385.1	5378.7	3539.0	1173.7	752.4
82.5°	378.0	414.0	507.6	788.5	1724.5	2451.8	3089.0	3366.2	1659.7	601.2	453.6
85°	208.8	234.0	306.0	475.2	1011.7	2178.1	2473.4	2415.8	950.5	320.4	284.4
87.5°	68.4	79.2	111.6	190.8	417.6	1026.1	1483.3	1393.3	493.2	147.6	111.6
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°	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0	8799.0
2.5°	8791.8	8781.0	8619.0	8496.6	8287.7	8114.9	8046.5	7952.9	7949.3	7880.9	7862.9
5°	8579.4	8467.7	8219.3	7981.7	7610.9	7362.5	7135.7	6977.3	6912.4	6772.0	6739.6
7.5°	8305.7	8158.1	7776.5	7330.1	6894.4	6505.6	6152.8	5800.0	5602.0	5533.6	5458.0
10°	8021.3	7762.1	7196.9	6696.4	6088.0	5490.4	4935.9	4439.1	4169.1	3978.3	3895.5
12.5°	7794.5	7448.9	6728.8	5980.0	5177.1	4377.9	3733.4	3211.4	2905.4	2761.4	2696.6
15°	7538.9	7081.7	6217.6	5270.7	4269.9	3362.6	2732.6	2322.2	2199.7	2131.3	2120.5
17.5°	7268.9	6739.6	5663.2	4572.3	3384.2	2531.0	2124.1	1958.5	1904.5	1875.7	1861.3
20°	7016.9	6433.6	5094.3	3794.6	2649.8	2030.5	1839.7	1753.3	1749.7	1764.1	1760.5
22.5°	6660.4	6034.0	4532.7	3074.6	2116.9	1767.7	1645.3	1623.7	1645.3	1663.3	1670.5
25°	6458.8	5706.4	3906.3	2441.0	1749.7	1569.7	1530.1	1522.9	1555.3	1576.9	1573.3
27.5°	6250.0	5367.9	3323.0	1954.9	1533.7	1429.3	1422.1	1429.3	1461.7	1494.1	1490.5
30°	6088.0	5097.9	2775.8	1634.5	1368.1	1328.5	1321.3	1328.5	1346.5	1350.1	1350.1
32.5°	5954.8	4777.5	2311.3	1418.5	1267.3	1234.9	1242.1	1238.5	1242.1	1245.7	1249.3
35°	5875.6	4586.7	1929.7	1285.3	1184.5	1159.3	1155.7	1144.9	1148.5	1152.1	1148.5
37.5°	6044.8	4493.1	1627.3	1191.7	1126.9	1105.3	1098.1	1090.9	1080.1	1080.1	1080.1
40°	6300.4	4442.7	1443.7	1130.5	1083.7	1058.5	1036.9	1029.7	1029.7	1033.3	1036.9
42.5°	6808.0	4525.5	1317.7	1083.7	1029.7	1000.9	979.3	982.9	993.7	1004.5	997.3
45°	7542.5	4777.5	1260.1	1047.7	997.3	957.7	943.3	939.7	950.5	968.5	982.9
47.5°	8503.8	5169.9	1238.5	1015.3	975.7	921.7	903.7	914.5	928.9	954.1	943.3
50°	10077.1	6052.0	1256.5	986.5	943.3	903.7	882.1	871.3	882.1	900.1	907.3
52.5°	12132.8	7654.1	1324.9	972.1	921.7	889.3	853.3	835.3	846.1	860.5	860.5
55°	14591.7	9843.0	1515.7	954.1	885.7	867.7	828.1	792.1	799.3	799.3	795.7
57.5°	16759.1	11495.5	1742.5	928.9	864.1	838.9	788.5	745.2	738.0	741.6	745.2
60°	17731.1	11934.8	1850.5	921.7	864.1	802.9	734.4	691.2	680.4	673.2	673.2
62.5°	17561.9	11175.1	1630.9	889.3	885.7	774.1	684.0	637.2	622.8	608.4	612.0
65°	16539.5	10091.5	1285.3	846.1	889.3	756.0	633.6	586.8	561.6	543.6	540.0
67.5°	14670.9	8615.4	1018.9	813.7	853.3	723.6	590.4	536.4	514.8	496.8	489.6
70°	11477.5	6754.0	885.7	770.4	766.8	644.4	540.0	493.2	460.8	439.2	439.2
72.5°	7441.7	4269.9	759.6	684.0	662.4	540.0	468.0	439.2	414.0	396.0	396.0
75°	3369.8	1983.7	612.0	572.4	540.0	432.0	396.0	381.6	360.0	342.0	342.0
77.5°	1209.7	846.1	457.2	450.0	403.2	334.8	320.4	309.6	295.2	277.2	277.2
80°	676.8	536.4	342.0	327.6	280.8	248.4	230.4	230.4	223.2	212.4	208.8
82.5°	428.4	349.2	252.0	219.6	183.6	165.6	158.4	154.8	151.2	136.8	133.2
85°	270.0	237.6	165.6	129.6	108.0	82.8	79.2	75.6	68.4	61.2	61.2
87.5°	122.4	136.8	64.8	39.6	28.8	18.0	10.8	3.6	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)