

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: P480405

Luminaire Tested: **IFLD-L-SA7B-727-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480405  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-727-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

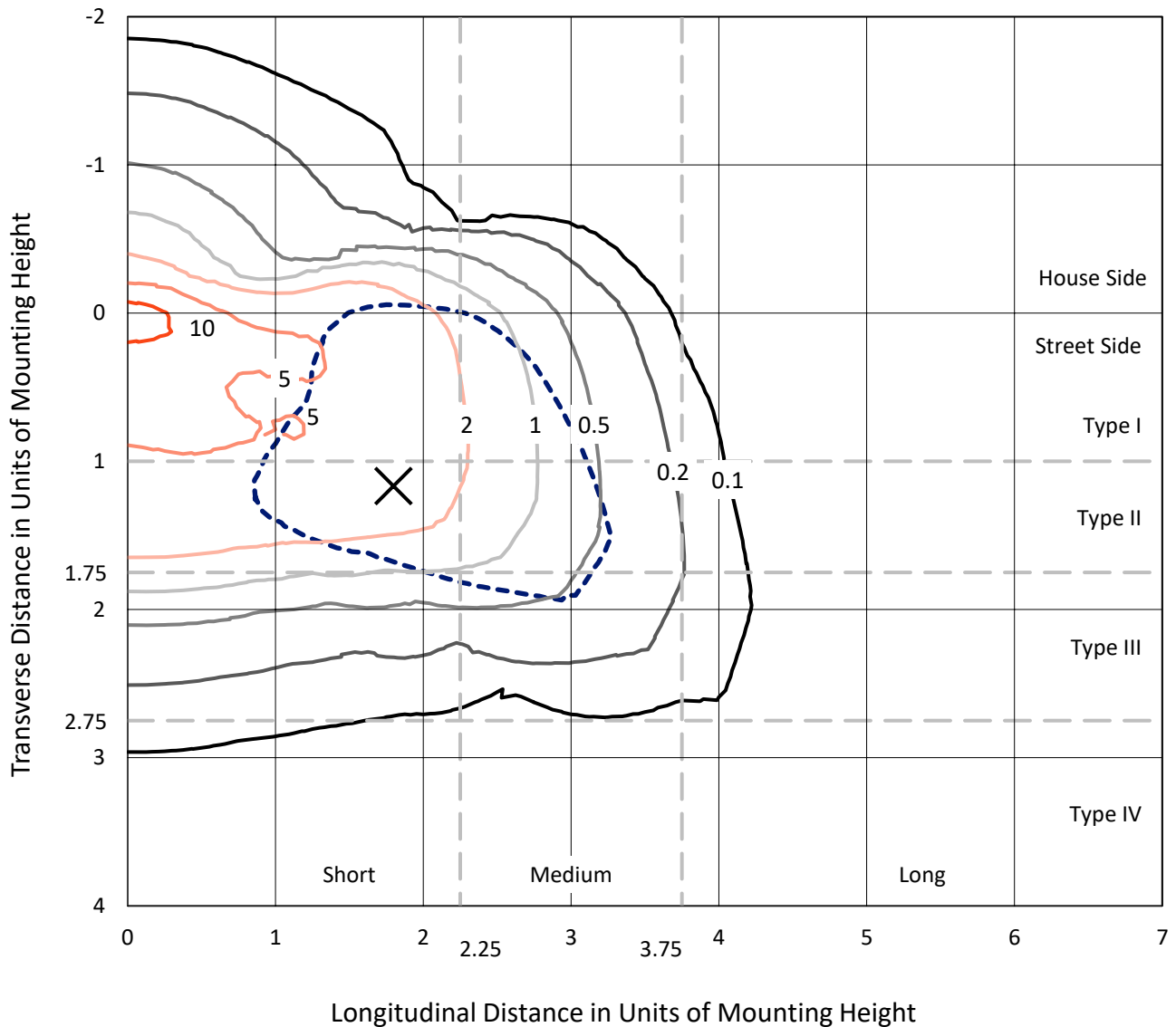
Lumens per Lamp: N/A  
Luminaire Lumens: 29387 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

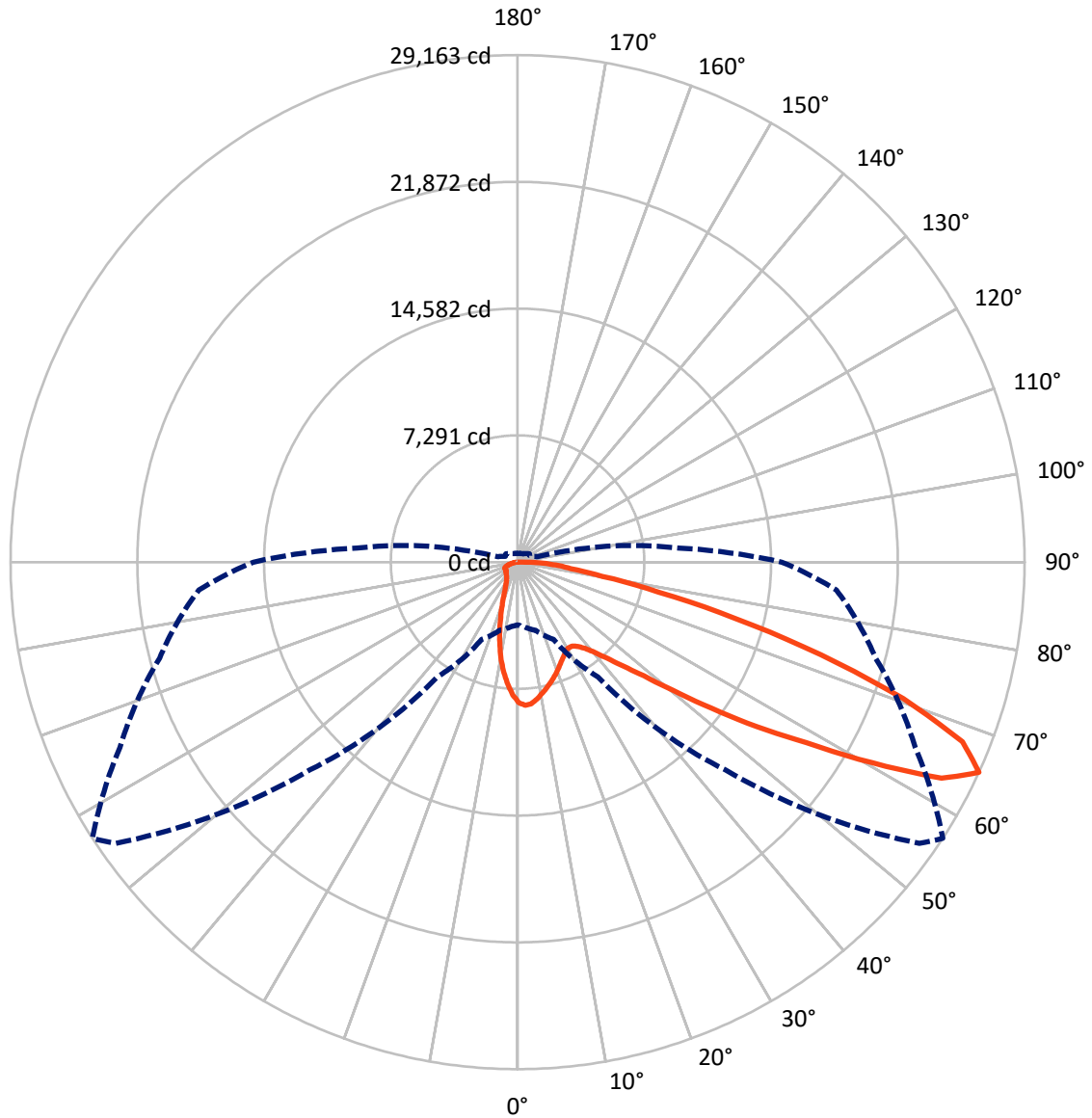
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P480405  
CATALOG NUMBER: IFLD-L-SA7B-727-U-SL3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P480405

CATALOG NUMBER: IFLD-L-SA7B-727-U-SL3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4506.8	0.0	4506.8
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	24880.3	0.0	24880.3
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	29387.0	0.0	29387.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	676.7	2.3
10°-20°	1456.4	5.0
20°-30°	1883.0	6.4
30°-40°	2533.9	8.6
40°-50°	4040.5	13.7
50°-60°	7136.4	24.3
60°-70°	7851.0	26.7
70°-80°	3284.2	11.2
80°-90°	524.9	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°	29387.0	100.0
0°-180°	29387.0	100.0



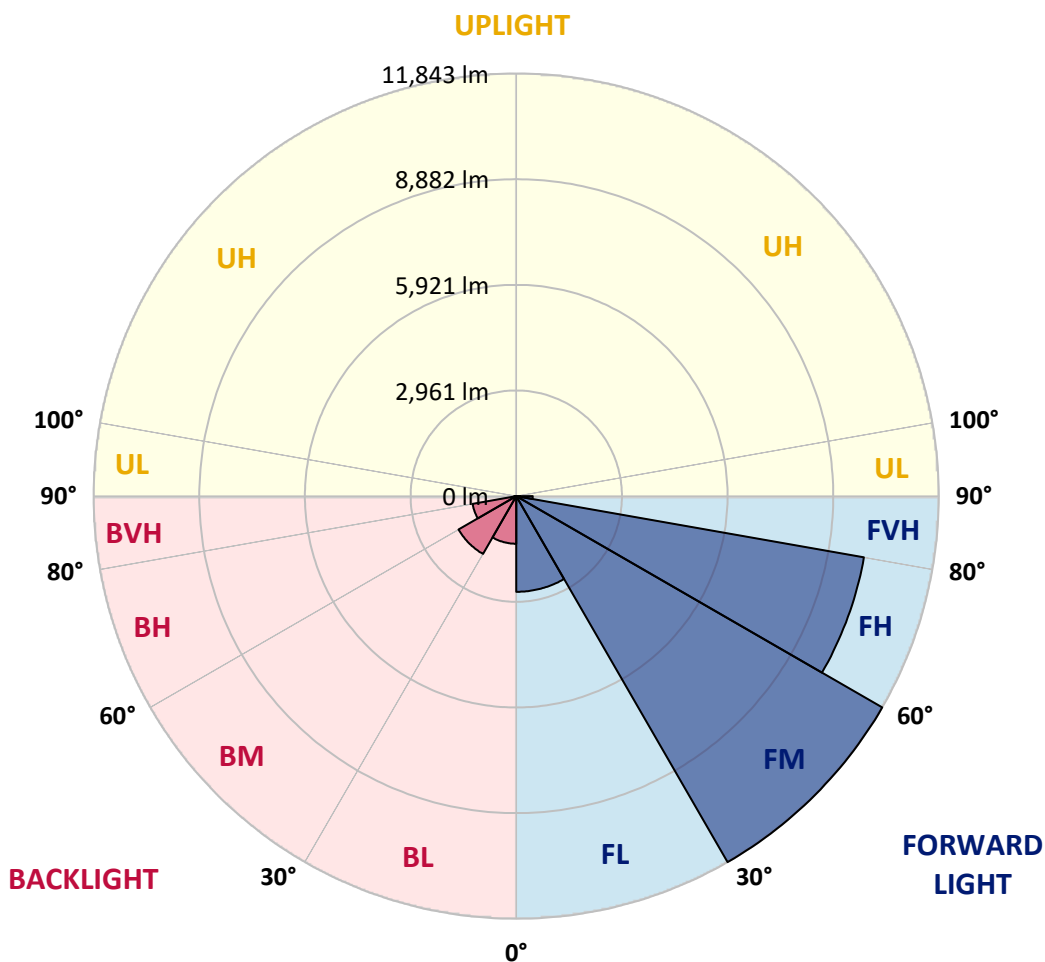
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 CATALOG NUMBER: IFLD-L-SA7B-727-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2681.5	9.1			
FM (30°-60°)	11842.9	40.3			
FH (60°-80°)	9892.6	33.7			G4/12000
FVH (80°-90°)	463.3	1.6			G3/500
BL (0°-30°)	1334.7	4.5	B3/2500		
BM (30°-60°)	1867.9	6.4	B2/2500		
BH (60°-80°)	1242.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	61.6	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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 CATALOG NUMBER: IFLD-L-SA7B-727-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0
2.5°	8299.2	8312.5	8312.5	8338.9	8249.7	8292.6	8286.0	8246.3	8259.6	8190.1	8120.7
5°	8064.5	8054.6	8107.5	8114.1	8183.5	8203.4	8219.9	8193.4	8200.1	8048.0	7981.8
7.5°	7462.7	7459.4	7548.7	7624.7	7770.2	7905.8	7995.1	7968.6	8005.0	7909.1	7753.7
10°	6748.5	6824.6	6917.1	6993.2	7261.0	7433.0	7664.4	7687.6	7826.4	7803.3	7522.2
12.5°	6212.9	6245.9	6315.4	6533.6	6778.3	7062.6	7393.3	7423.0	7558.6	7624.7	7380.0
15°	5773.1	5802.9	5892.1	6054.2	6328.6	6665.9	7085.8	7161.8	7433.0	7456.1	7194.9
17.5°	5452.4	5475.5	5535.0	5697.1	5921.9	6355.0	6751.8	6887.4	7244.5	7356.9	7003.1
20°	5326.7	5277.1	5310.2	5412.7	5637.5	5971.5	6484.0	6603.0	7059.3	7280.9	6821.3
22.5°	5270.5	5227.5	5247.4	5240.8	5419.3	5657.4	6196.3	6322.0	6884.1	7191.6	6659.2
25°	5313.5	5313.5	5293.7	5277.1	5297.0	5452.4	5885.5	6080.6	6649.3	7115.5	6493.9
27.5°	5545.0	5455.7	5465.6	5396.2	5376.3	5376.3	5746.7	5862.4	6573.3	7072.5	6358.3
30°	5693.7	5736.7	5740.0	5637.5	5535.0	5349.9	5617.7	5730.1	6510.4	7125.5	6279.0
32.5°	6074.0	6054.2	5997.9	5978.1	5826.0	5617.7	5680.5	5756.6	6474.1	7244.5	6302.1
35°	6454.2	6444.3	6447.6	6437.7	6279.0	5971.5	5849.2	5951.7	6540.2	7452.8	6381.5
37.5°	6847.7	6874.2	6986.6	6986.6	6817.9	6484.0	6322.0	6292.2	6781.6	7793.4	6570.0
40°	7241.2	7307.3	7449.5	7674.3	7436.3	7125.5	6864.2	6817.9	7072.5	8249.7	7023.0
42.5°	7618.1	7727.2	8008.3	8342.2	8262.9	7952.1	7604.9	7552.0	7671.0	8927.5	7654.5
45°	8100.9	8193.4	8636.5	9149.0	9258.1	8983.7	8577.0	8534.0	8527.4	9919.4	8524.1
47.5°	8834.9	8934.1	9377.2	9893.0	10230.2	10273.2	9816.9	9770.6	9611.9	11258.5	9797.1
50°	9754.1	9916.1	10289.7	10891.5	11380.9	11840.5	11711.5	11576.0	11265.2	12815.9	11410.6
52.5°	10425.3	10623.7	11129.6	11900.0	12763.0	13493.7	13956.6	13956.6	13242.4	14525.3	13351.5
55°	10603.9	10722.9	11361.0	12475.3	13953.3	15801.6	16770.4	16697.7	15596.6	16324.1	15609.9
57.5°	9893.0	10048.4	10822.1	11989.3	14578.2	17960.8	19564.4	19580.9	18169.1	18413.8	17838.4
60°	7935.5	7985.1	8897.7	10458.4	13976.5	19700.0	23380.1	23442.9	21095.3	20275.3	18972.5
62.5°	5485.4	5644.2	6331.9	7700.8	11579.3	19504.9	27060.2	27371.0	23439.6	21257.3	19151.1
65°	3610.7	3706.6	4073.6	4906.8	8061.2	16906.0	28204.2	29163.1	25231.7	21313.5	18403.8
67.5°	2618.7	2635.3	2744.4	3174.2	4844.0	12157.9	26250.1	27602.4	25902.9	20844.0	16651.4
70°	2116.1	2129.4	2169.0	2443.5	3127.9	7608.2	21409.4	23528.9	23889.3	18618.8	13411.1
72.5°	1719.4	1735.9	1785.5	2043.4	2579.0	4232.3	15656.2	18238.5	19432.1	13774.8	8914.3
75°	1352.3	1365.6	1484.6	1739.2	2423.6	2906.4	10385.6	12915.1	13077.1	8051.3	4172.8
77.5°	925.8	949.0	1094.4	1474.7	2281.5	2542.7	6474.1	8272.8	7423.0	3151.1	1435.0
80°	588.6	621.6	707.6	1117.6	2016.9	2427.0	4027.3	4939.9	3250.3	1077.9	691.1
82.5°	347.2	380.2	466.2	724.1	1583.8	2251.7	2837.0	3091.6	1524.3	552.2	416.6
85°	191.8	214.9	281.1	436.5	929.1	2000.4	2271.5	2218.6	872.9	294.3	261.2
87.5°	62.8	72.7	102.5	175.2	383.6	942.3	1362.3	1279.6	453.0	135.6	102.5
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°	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0	8081.0
2.5°	8074.4	8064.5	7915.7	7803.3	7611.5	7452.8	7390.0	7304.0	7300.7	7237.9	7221.3
5°	7879.3	7776.8	7548.7	7330.5	6989.9	6761.7	6553.4	6407.9	6348.4	6219.5	6189.7
7.5°	7628.0	7492.5	7142.0	6732.0	6331.9	5974.8	5650.8	5326.7	5144.9	5082.1	5012.6
10°	7366.8	7128.8	6609.6	6150.0	5591.2	5042.4	4533.2	4076.9	3828.9	3653.7	3577.6
12.5°	7158.5	6841.1	6179.8	5492.1	4754.7	4020.7	3428.8	2949.4	2668.3	2536.1	2476.5
15°	6923.8	6503.8	5710.3	4840.7	3921.5	3088.2	2509.6	2132.7	2020.3	1957.4	1947.5
17.5°	6675.8	6189.7	5201.1	4199.2	3108.1	2324.5	1950.8	1798.7	1749.1	1722.7	1709.4
20°	6444.3	5908.7	4678.7	3485.0	2433.6	1864.9	1689.6	1610.3	1606.9	1620.2	1616.9
22.5°	6117.0	5541.6	4162.9	2823.7	1944.2	1623.5	1511.1	1491.2	1511.1	1527.6	1534.2
25°	5931.8	5240.8	3587.5	2241.8	1606.9	1441.6	1405.3	1398.6	1428.4	1448.2	1444.9
27.5°	5740.0	4930.0	3051.9	1795.4	1408.6	1312.7	1306.1	1312.7	1342.4	1372.2	1368.9
30°	5591.2	4682.0	2549.3	1501.1	1256.5	1220.1	1213.5	1220.1	1236.6	1239.9	1239.9
32.5°	5468.9	4387.7	2122.8	1302.8	1163.9	1134.1	1140.7	1137.4	1140.7	1144.0	1147.3
35°	5396.2	4212.4	1772.3	1180.4	1087.8	1064.7	1061.4	1051.5	1054.8	1058.1	1054.8
37.5°	5551.6	4126.5	1494.5	1094.4	1034.9	1015.1	1008.5	1001.9	991.9	991.9	991.9
40°	5786.3	4080.2	1325.9	1038.2	995.2	972.1	952.3	945.7	945.7	949.0	952.3
42.5°	6252.5	4156.2	1210.2	995.2	945.7	919.2	899.4	902.7	912.6	922.5	915.9
45°	6927.1	4387.7	1157.3	962.2	915.9	879.5	866.3	863.0	872.9	889.4	902.7
47.5°	7809.9	4748.1	1137.4	932.4	896.1	846.5	829.9	839.8	853.1	876.2	866.3
50°	9254.8	5558.2	1154.0	906.0	866.3	829.9	810.1	800.2	810.1	826.6	833.2
52.5°	11142.8	7029.6	1216.8	892.7	846.5	816.7	783.6	767.1	777.0	790.2	790.2
55°	13401.1	9039.9	1392.0	876.2	813.4	796.9	760.5	727.4	734.0	734.0	730.7
57.5°	15391.6	10557.6	1600.3	853.1	793.6	770.4	724.1	684.4	677.8	681.1	684.4
60°	16284.4	10961.0	1699.5	846.5	793.6	737.3	674.5	634.8	624.9	618.3	618.3
62.5°	16129.0	10263.3	1497.8	816.7	813.4	710.9	628.2	585.2	572.0	558.8	562.1
65°	15189.9	9268.0	1180.4	777.0	816.7	694.4	581.9	539.0	515.8	499.3	496.0
67.5°	13473.9	7912.4	935.7	747.3	783.6	664.6	542.3	492.7	472.8	456.3	449.7
70°	10541.0	6202.9	813.4	707.6	704.3	591.9	496.0	453.0	423.2	403.4	403.4
72.5°	6834.5	3921.5	697.7	628.2	608.4	496.0	429.8	403.4	380.2	363.7	363.7
75°	3094.9	1821.9	562.1	525.7	496.0	396.8	363.7	350.5	330.6	314.1	314.1
77.5°	1111.0	777.0	419.9	413.3	370.3	307.5	294.3	284.4	271.1	254.6	254.6
80°	621.6	492.7	314.1	300.9	257.9	228.1	211.6	211.6	205.0	195.1	191.8
82.5°	393.5	320.7	231.5	201.7	168.6	152.1	145.5	142.2	138.9	125.6	122.3
85°	248.0	218.2	152.1	119.0	99.2	76.0	72.7	69.4	62.8	56.2	56.2
87.5°	112.4	125.6	59.5	36.4	26.5	16.5	9.9	3.3	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)