

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: P480795

Luminaire Tested: **IFLD-L-SA7B-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480795
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-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

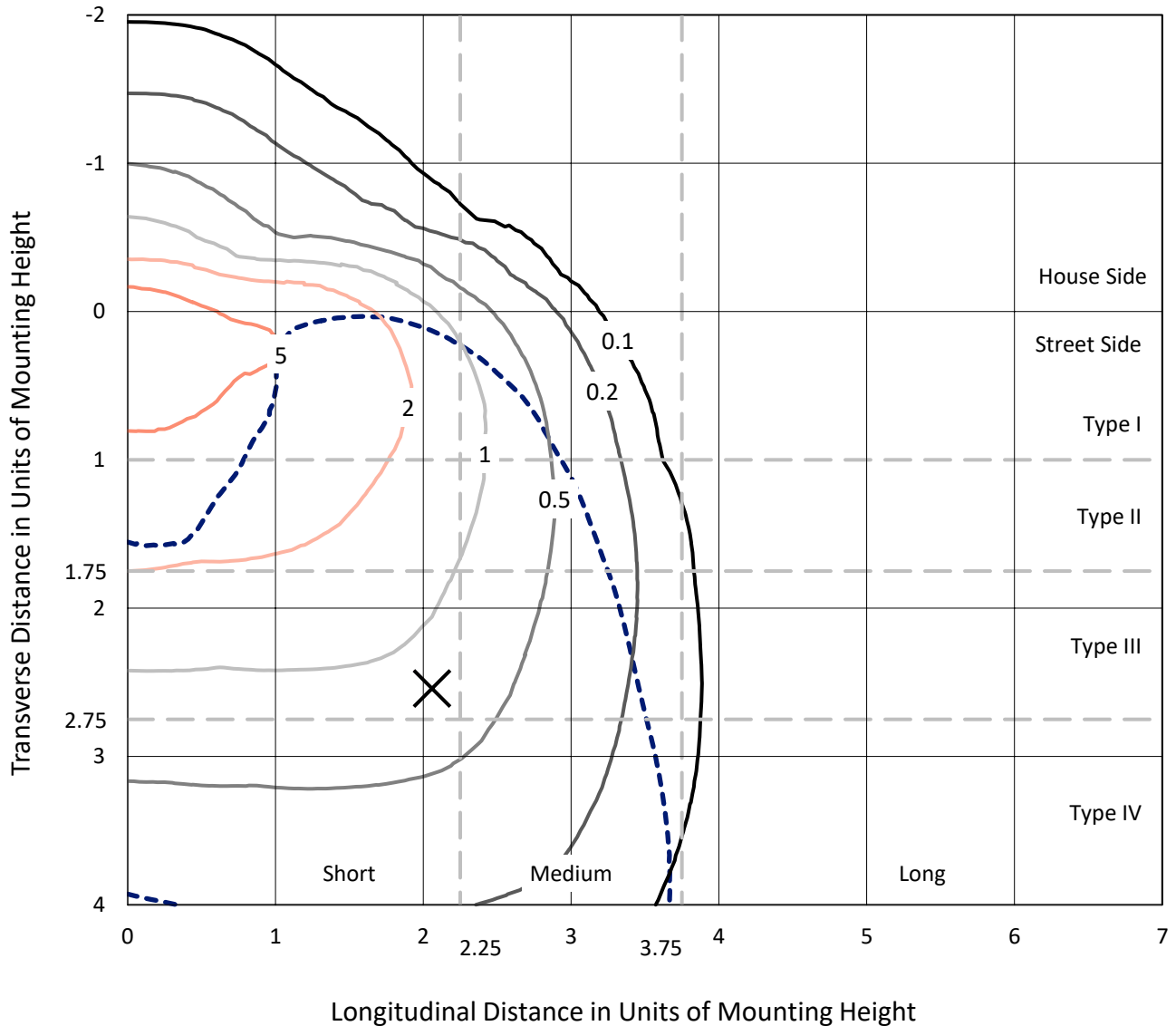
Lumens per Lamp: N/A
Luminaire Lumens: 28807.9 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

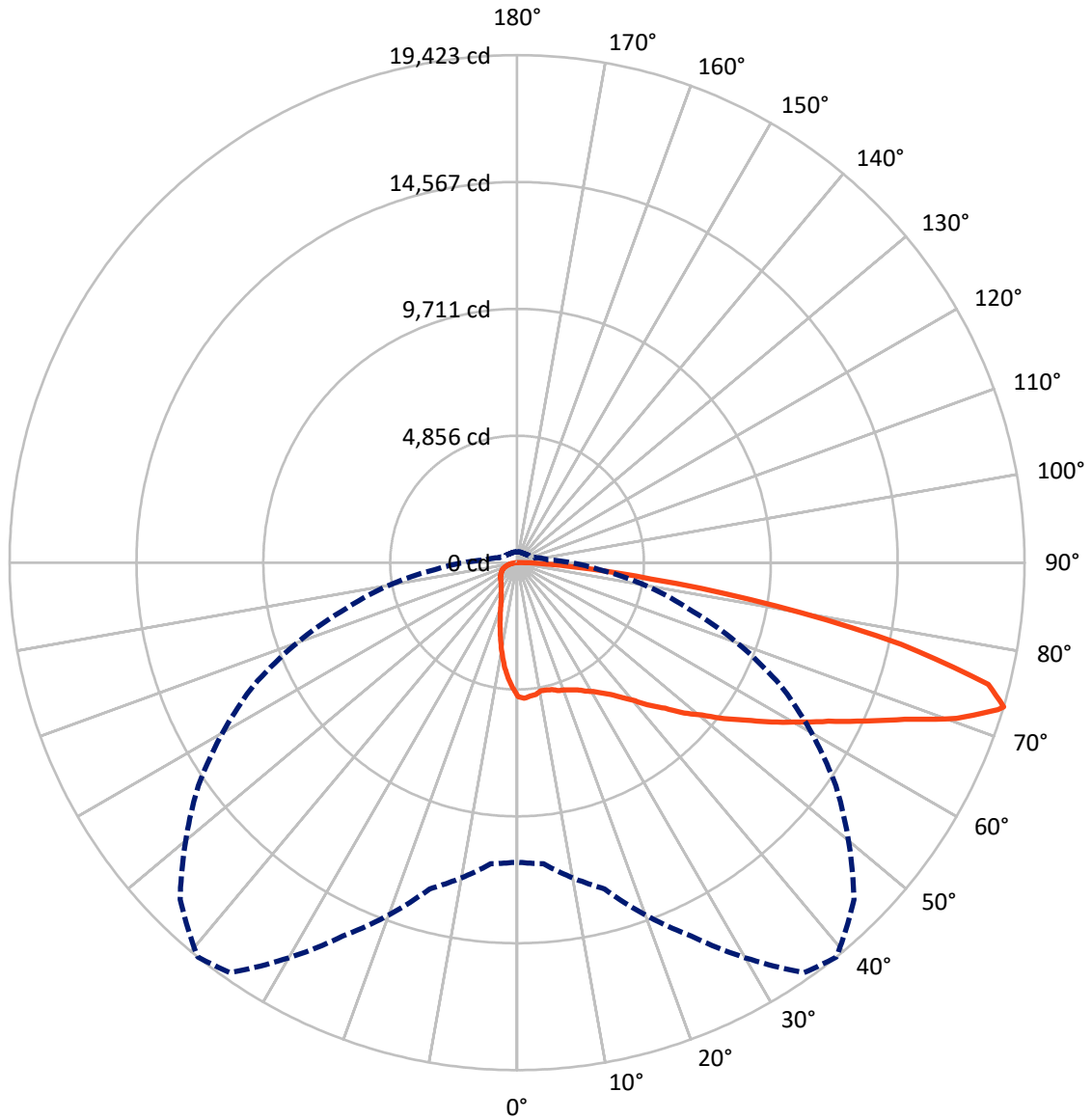
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4049.6	0.0	4049.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	24758.3	0.0	24758.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	28807.9	0.0	28807.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.2	1.5
10°-20°	1131.6	3.9
20°-30°	1729.3	6.0
30°-40°	2521.3	8.8
40°-50°	3810.0	13.2
50°-60°	5517.1	19.2
60°-70°	7009.7	24.3
70°-80°	5682.4	19.7
80°-90°	961.4	3.3
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°	28807.9	100.0
0°-180°	28807.9	100.0

Coefficient of Utilization

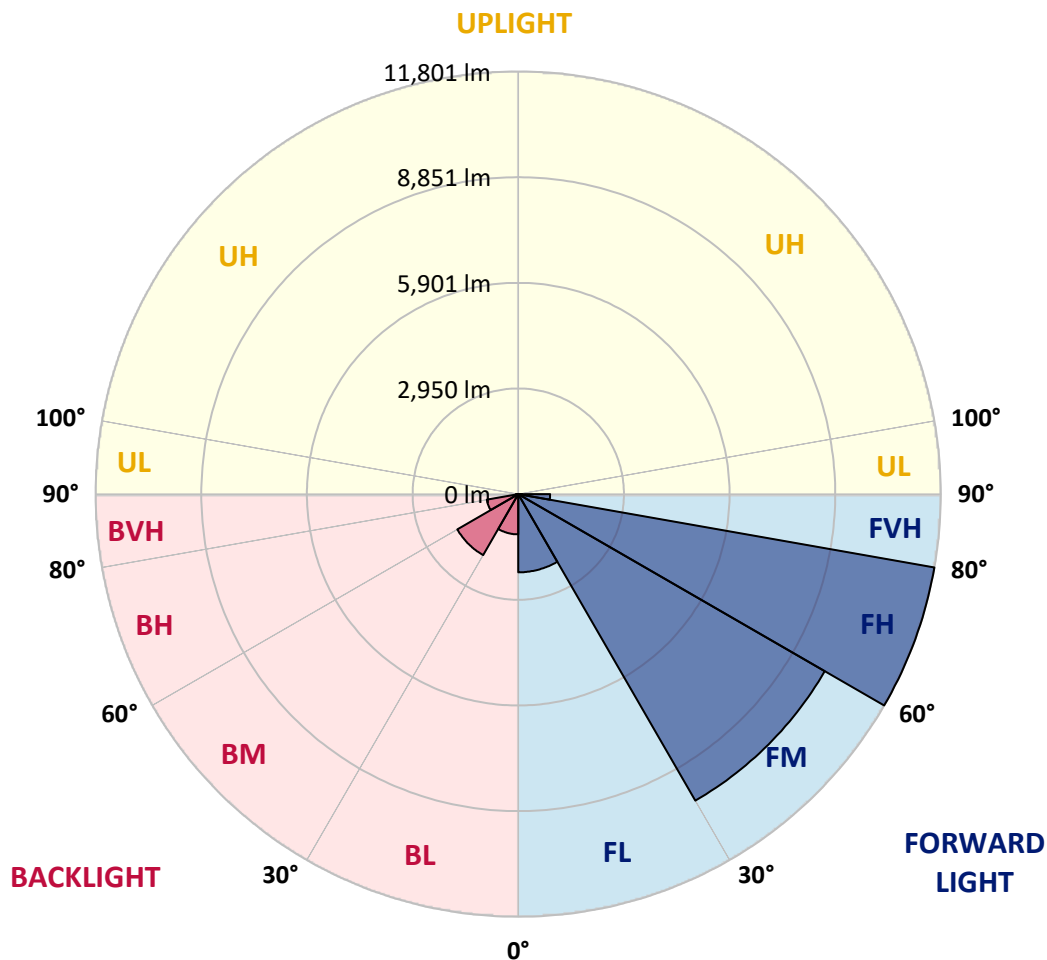


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2183.0	7.6			
FM (30°-60°)	9883.0	34.3			
FH (60°-80°)	11801.4	41.0			G4/12000
FVH (80°-90°)	890.9	3.1			G5
BL (0°-30°)	1123.0	3.9	B3/2500		
BM (30°-60°)	1965.4	6.8	B2/2500		
BH (60°-80°)	890.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	70.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0
2.5°	5250.5	5195.7	5205.3	5186.0	5205.3	5198.9	5189.2	5140.9	5189.2	5140.9	5128.0
5°	5179.6	5179.6	5211.8	5163.4	5169.9	5137.7	5169.9	5134.4	5102.2	5021.6	4999.1
7.5°	5157.0	5153.8	5157.0	5089.3	5121.5	5102.2	5070.0	5031.3	4966.8	4915.3	4841.1
10°	5002.3	5034.5	4999.1	5018.4	5044.2	4986.2	4982.9	4973.3	4944.3	4876.6	4831.5
12.5°	4918.5	4973.3	4992.6	4976.5	4999.1	5005.5	4986.2	4973.3	4937.8	4892.7	4763.8
15°	4953.9	4889.5	4944.3	5050.6	5028.1	5044.2	5047.4	5034.5	5018.4	4934.6	4850.8
17.5°	4963.6	4924.9	5041.0	5063.5	5092.5	5150.5	5111.9	5108.6	5047.4	4989.4	4866.9
20°	4986.2	4970.0	5063.5	5182.8	5186.0	5195.7	5215.0	5166.7	5134.4	5034.5	4847.6
22.5°	5070.0	5124.8	5211.8	5263.4	5292.4	5298.8	5298.8	5202.1	5166.7	5086.1	4937.8
25°	5321.4	5263.4	5385.8	5447.1	5405.2	5395.5	5372.9	5285.9	5247.2	5176.3	4979.7
27.5°	5505.1	5501.9	5572.8	5656.6	5543.8	5566.3	5485.7	5460.0	5372.9	5334.3	5053.8
30°	5756.5	5827.4	5824.2	5850.0	5701.7	5727.5	5624.3	5576.0	5527.6	5550.2	5273.0
32.5°	6078.8	6053.0	6094.9	6075.6	5927.3	5949.9	5827.4	5753.3	5769.4	5837.1	5572.8
35°	6285.1	6259.3	6275.4	6275.4	6230.3	6204.5	6152.9	6056.2	6133.6	6259.3	5908.0
37.5°	6507.5	6539.7	6633.2	6613.8	6555.8	6555.8	6549.4	6481.7	6581.6	6891.0	6443.0
40°	6704.1	6791.1	6849.1	6887.8	6955.5	6955.5	7010.3	6971.6	7152.1	7648.5	7097.3
42.5°	6910.4	6913.6	7229.5	7258.5	7409.9	7474.4	7516.3	7548.5	7887.0	8441.3	7796.7
45°	7174.7	7190.8	7468.0	7690.4	7925.6	7948.2	8106.1	8212.5	8628.3	9308.4	8557.4
47.5°	7522.8	7503.4	7799.9	8154.5	8447.8	8602.5	8792.7	8908.7	9421.2	10249.5	9388.9
50°	7980.4	7922.4	8093.3	8650.9	8995.7	9166.5	9505.0	9698.4	10297.9	11148.8	9959.4
52.5°	8538.0	8441.3	8576.7	9185.9	9572.7	9917.5	10239.8	10455.8	11081.1	11845.0	10381.7
55°	9127.9	8928.0	8966.7	9753.2	10310.8	10636.3	11077.9	11303.5	11941.7	12470.2	10803.9
57.5°	9711.3	9585.6	9508.2	10297.9	11190.7	11503.3	11909.4	12202.7	12744.2	13024.6	11161.7
60°	10201.2	10168.9	10043.2	11142.3	12122.1	12389.7	12815.1	12995.6	13405.0	13537.1	11168.1
62.5°	10604.1	10494.5	10694.3	11822.4	13069.7	13372.7	13840.1	13856.2	14146.3	13856.2	10839.3
65°	10919.9	10926.4	11245.5	12644.3	14165.6	14613.6	14990.7	14948.8	14761.9	13666.0	10062.6
67.5°	11206.8	11329.3	11796.6	13546.8	15574.1	15996.3	16415.3	15861.0	14929.5	12776.4	8544.5
70°	11432.4	11554.9	12541.2	14645.9	17234.0	17852.9	17946.3	16222.0	14159.2	10823.2	6446.2
72.5°	11406.6	11629.0	12963.4	15522.5	18707.0	19242.0	18487.8	15206.7	11796.6	7545.3	3761.4
73°	11461.4	11571.0	12927.9	15767.5	19155.0	19422.5	18236.4	14887.6	11126.2	6768.5	3181.2
75°	10404.2	10774.9	12286.5	15367.8	18674.7	18626.4	16792.4	12405.8	7909.5	3555.1	1540.7
77.5°	7696.8	7932.1	9682.2	12637.8	15329.2	15019.7	12666.9	7928.9	3754.9	1318.3	831.6
80°	3761.4	3945.1	5131.2	7297.1	10023.9	10049.7	7861.2	4125.6	1608.3	744.5	567.3
82.5°	1879.1	1988.7	2465.7	3207.0	4931.4	5166.7	3987.0	2346.4	995.9	422.2	322.3
85°	1228.0	1305.4	1518.1	1569.7	2091.8	2207.8	1856.5	1830.7	647.8	228.8	261.1
87.5°	815.4	828.3	931.5	792.9	838.0	805.8	896.0	1153.9	190.2	96.7	70.9
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°	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0	5128.0
2.5°	5111.9	5066.7	5018.4	4950.7	4902.4	4828.2	4760.5	4731.5	4725.1	4728.3	4696.1
5°	4979.7	4915.3	4818.6	4680.0	4599.4	4476.9	4373.8	4319.0	4261.0	4270.6	4244.8
7.5°	4796.0	4725.1	4576.8	4415.7	4215.8	4041.8	3945.1	3809.7	3732.4	3674.4	3706.6
10°	4738.0	4615.5	4393.1	4170.7	3861.3	3632.5	3410.1	3255.3	3149.0	3045.8	3091.0
12.5°	4709.0	4586.5	4277.1	3948.3	3548.7	3200.6	2887.9	2697.8	2546.3	2456.0	2491.5
15°	4683.2	4531.7	4167.5	3703.4	3255.3	2797.7	2446.3	2194.9	2049.9	1962.9	1972.5
17.5°	4718.6	4502.7	4006.3	3464.9	2933.0	2443.1	2053.1	1792.1	1643.8	1589.0	1576.1
20°	4683.2	4470.5	3848.4	3226.3	2610.7	2104.7	1730.8	1514.9	1411.7	1366.6	1356.9
22.5°	4696.1	4393.1	3684.0	2962.0	2311.0	1821.1	1514.9	1350.5	1269.9	1247.3	1253.8
25°	4757.3	4348.0	3519.6	2672.0	2014.4	1611.6	1376.3	1250.6	1192.6	1170.0	1176.4
27.5°	4802.4	4386.7	3371.4	2398.0	1763.0	1424.6	1260.2	1176.4	1137.8	1121.6	1118.4
30°	4915.3	4409.2	3226.3	2153.0	1556.8	1302.1	1179.7	1112.0	1086.2	1076.5	1073.3
32.5°	5082.9	4451.1	3058.7	1927.4	1405.3	1186.1	1115.2	1057.2	1050.7	1041.1	1044.3
35°	5356.8	4596.2	2871.8	1734.0	1260.2	1108.8	1047.5	1008.8	1008.8	1008.8	1018.5
37.5°	5750.0	4799.2	2704.2	1550.3	1166.8	1041.1	989.5	976.6	970.2	979.8	986.3
40°	6256.1	5044.2	2568.8	1405.3	1086.2	995.9	950.8	944.4	941.2	937.9	944.4
42.5°	6810.4	5356.8	2452.8	1292.5	1028.2	947.6	915.4	908.9	896.0	902.5	912.1
45°	7361.6	5743.6	2349.7	1202.2	989.5	921.8	876.7	873.5	867.0	863.8	879.9
47.5°	7974.0	6123.9	2317.4	1147.4	960.5	883.1	850.9	847.7	828.3	825.1	838.0
50°	8451.0	6404.3	2352.9	1121.6	918.6	854.1	831.6	815.4	799.3	783.2	783.2
52.5°	8779.8	6597.7	2378.7	1102.3	896.0	815.4	786.4	780.0	763.9	747.8	741.3
55°	9076.3	6713.8	2385.1	1105.5	873.5	770.3	751.0	747.8	738.1	712.3	705.9
57.5°	9176.2	6665.4	2256.2	1076.5	860.6	741.3	715.5	722.0	709.1	686.5	683.3
60°	9166.5	6330.2	1962.9	1037.8	831.6	709.1	676.9	696.2	696.2	670.4	667.2
62.5°	8608.9	5556.7	1605.1	963.7	799.3	676.9	641.4	670.4	680.1	664.0	660.7
65°	7451.9	4525.3	1340.8	889.6	751.0	641.4	605.9	638.2	654.3	647.8	644.6
67.5°	6165.8	3461.6	1115.2	792.9	689.7	593.1	564.0	586.6	596.3	599.5	602.7
70°	4357.7	2304.5	931.5	686.5	605.9	541.5	509.3	512.5	509.3	518.9	518.9
72.5°	2369.0	1327.9	757.4	583.4	522.1	470.6	448.0	431.9	431.9	428.7	428.7
73°	2027.3	1192.6	722.0	567.3	499.6	457.7	431.9	419.0	419.0	415.8	412.6
75°	1137.8	873.5	618.8	486.7	431.9	399.7	380.3	361.0	357.8	357.8	357.8
77.5°	747.8	680.1	493.1	390.0	348.1	319.1	312.6	293.3	293.3	293.3	290.1
80°	560.8	535.0	380.3	296.5	267.5	245.0	238.5	225.6	222.4	209.5	212.7
82.5°	373.9	422.2	277.2	209.5	180.5	167.6	167.6	164.4	154.7	138.6	138.6
85°	296.5	344.9	199.8	128.9	106.4	90.2	93.5	90.2	87.0	70.9	67.7
87.5°	54.8	138.6	58.0	35.5	25.8	16.1	16.1	9.7	6.4	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)