

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: P480014

Luminaire Tested: **IFLD-L-SA7A-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480014
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

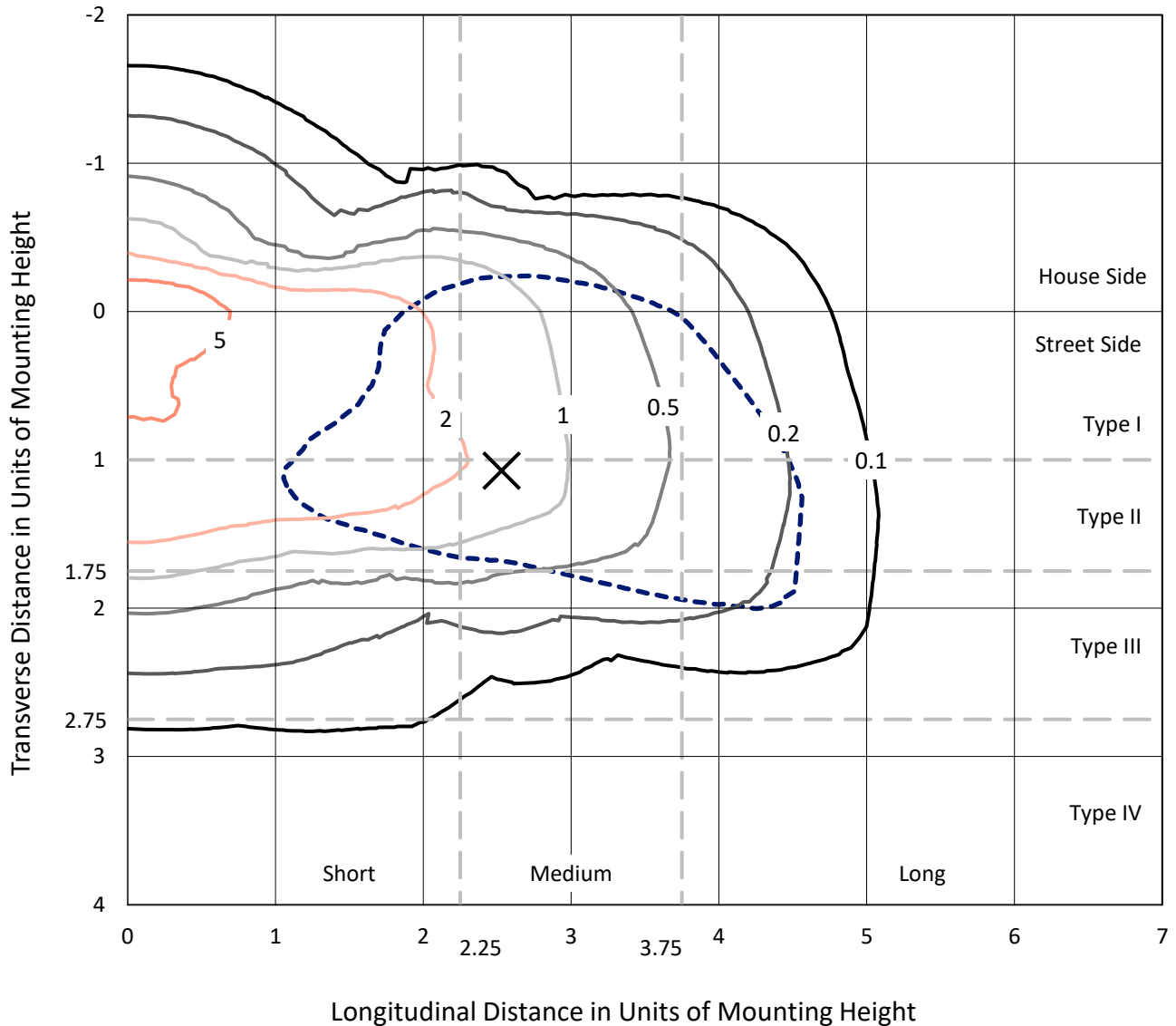
Lumens per Lamp: N/A
Luminaire Lumens: 26099.6 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

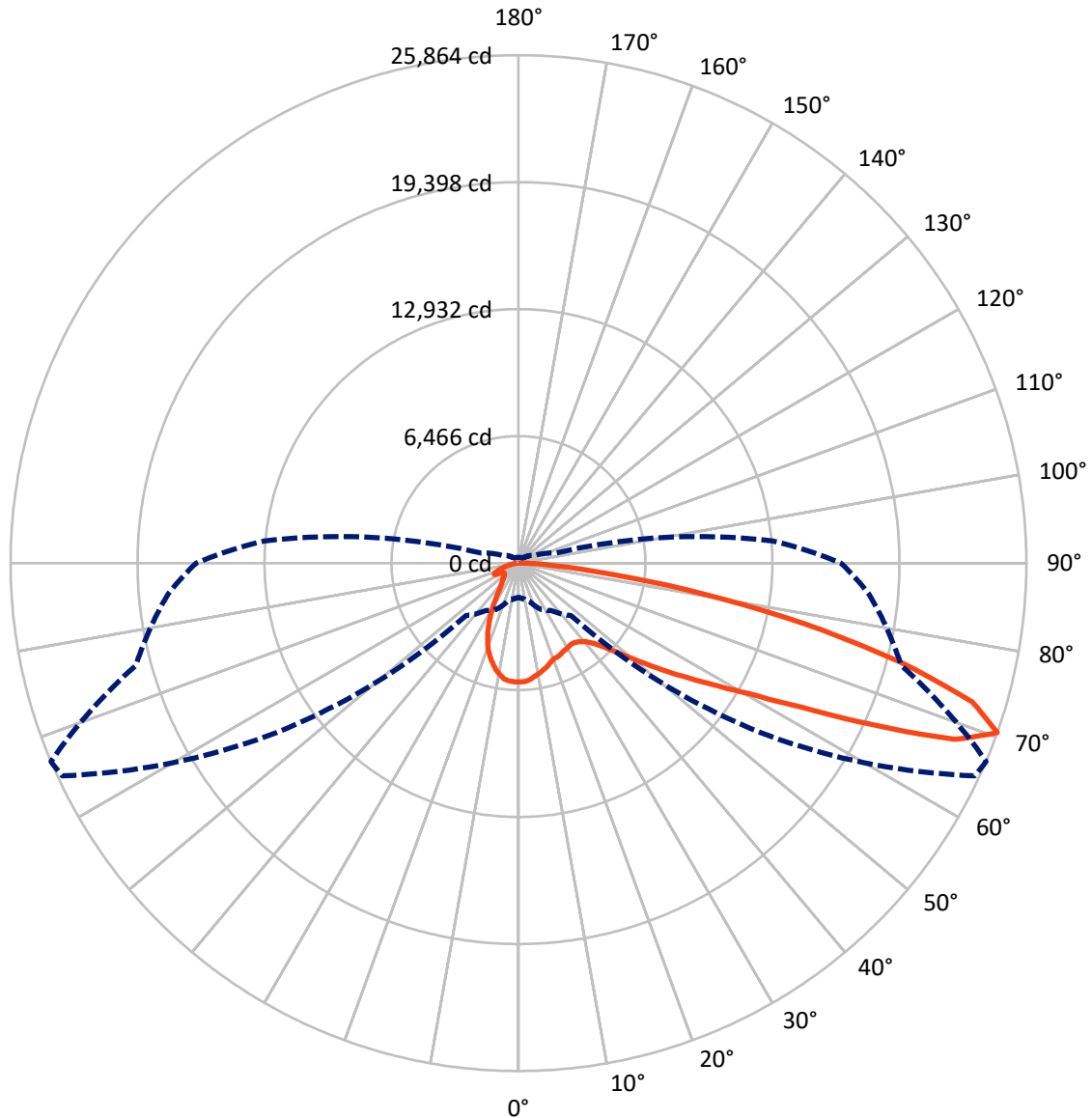
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5083.2	0.0	5083.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21016.5	0.0	21016.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	26099.6	0.0	26099.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.2	2.0
10°-20°	1262.6	4.8
20°-30°	1705.0	6.5
30°-40°	2281.4	8.7
40°-50°	3354.8	12.9
50°-60°	5229.3	20.0
60°-70°	6441.7	24.7
70°-80°	4551.6	17.4
80°-90°	746.0	2.9
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°	26099.6	100.0
0°-180°	26099.6	100.0

Coefficient of Utilization

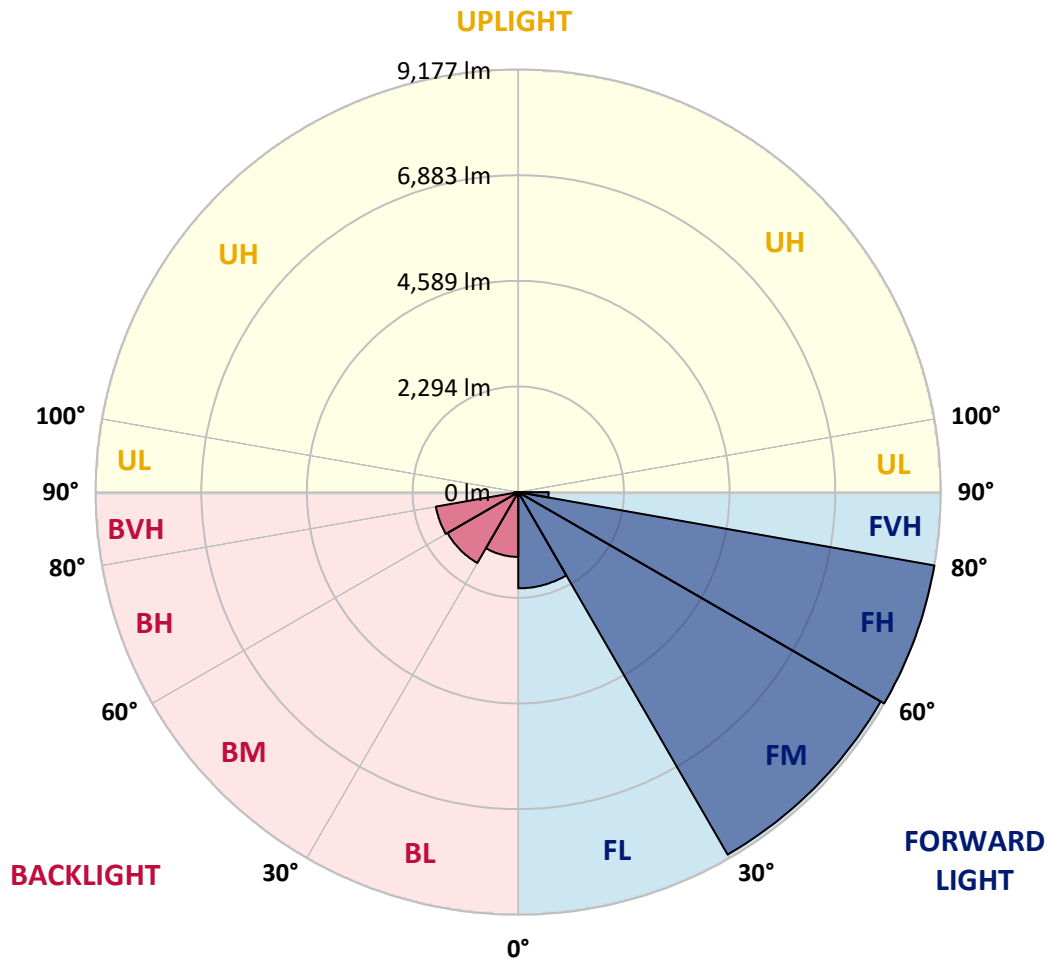


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2089.1	8.0			
FM (30°-60°)	9089.9	34.8			
FH (60°-80°)	9177.5	35.2			G4/12000
FVH (80°-90°)	660.0	2.5			G4/750
BL (0°-30°)	1405.7	5.4	B3/2500		
BM (30°-60°)	1775.7	6.8	B2/2500		
BH (60°-80°)	1815.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	86.1	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0
2.5°	5625.9	5689.5	5712.6	5747.2	5836.8	5903.3	5943.7	5990.0	6044.9	6091.1	6120.0
5°	5232.9	5267.6	5322.5	5360.1	5472.7	5651.9	5773.3	5969.7	5964.0	6036.2	6146.0
7.5°	4851.5	4886.2	4912.2	4987.3	5149.1	5310.9	5533.4	5851.3	5828.2	5995.7	6166.2
10°	4614.6	4588.6	4597.2	4724.4	4851.5	5033.5	5313.8	5637.4	5721.2	5981.3	6224.0
12.5°	4392.1	4363.2	4432.5	4513.4	4669.5	4834.2	5169.3	5461.2	5588.3	5929.3	6250.0
15°	4253.4	4233.1	4319.8	4354.5	4539.4	4735.9	4972.9	5328.3	5467.0	5865.7	6209.6
17.5°	4175.4	4192.7	4224.5	4299.6	4418.1	4585.7	4845.7	5238.7	5299.4	5787.7	6200.9
20°	4189.8	4210.0	4212.9	4244.7	4325.6	4455.6	4721.5	5143.3	5183.8	5773.3	6224.0
22.5°	4305.4	4276.5	4288.0	4267.8	4290.9	4392.1	4626.1	5016.2	5172.2	5651.9	6174.9
25°	4478.7	4438.3	4432.5	4363.2	4319.8	4348.7	4608.8	4984.4	5085.5	5614.3	6172.0
27.5°	4785.0	4724.4	4724.4	4620.3	4444.1	4397.8	4559.7	4932.4	5022.0	5579.7	6105.5
30°	5079.8	5079.8	5082.7	4935.3	4738.8	4510.5	4579.9	4912.2	4970.0	5475.6	6016.0
32.5°	5438.1	5429.4	5415.0	5342.7	5039.3	4698.4	4678.1	4886.2	4915.1	5441.0	5990.0
35°	5787.7	5764.6	5877.3	5813.7	5504.5	5065.3	4779.3	4897.7	4961.3	5388.9	5909.1
37.5°	6050.6	6065.1	6299.1	6339.6	6073.8	5481.4	5065.3	5013.3	5074.0	5464.1	5909.1
40°	6391.6	6449.4	6669.0	6804.8	6643.0	6030.4	5519.0	5206.9	5250.3	5631.7	6036.2
42.5°	6839.5	6888.6	7168.9	7345.1	7298.9	6729.7	5966.8	5611.4	5576.8	5911.9	6226.9
45°	7431.8	7440.5	7723.7	7966.4	8061.7	7460.7	6677.7	6122.9	6094.0	6394.5	6576.5
47.5°	8136.9	8128.2	8304.5	8564.5	8821.7	8333.4	7495.4	6900.2	6796.1	7085.1	7157.3
50°	8818.8	8781.2	8821.7	9154.0	9648.1	9425.6	8489.4	7850.8	7746.8	7905.7	8030.0
52.5°	9194.4	9240.7	9130.9	9570.1	10526.5	10717.2	9807.0	8986.4	8896.8	8974.8	9191.5
55°	8931.5	9026.8	8954.6	9370.7	10910.8	12292.0	11511.8	10301.1	10185.5	10156.6	10512.1
57.5°	7813.3	7986.6	8001.1	8659.9	10777.9	13511.4	13910.1	11852.8	11679.4	11384.7	11751.7
60°	5998.6	6172.0	6304.9	7085.1	9639.4	14239.5	16689.8	14060.4	13488.3	12725.4	12945.0
62.5°	4204.2	4322.7	4455.6	4935.3	7431.8	13811.9	19093.9	17169.5	16114.8	14138.4	14412.9
65°	3062.9	3155.4	3291.2	3574.3	4565.4	11428.0	20209.3	20862.3	19862.5	15935.7	15901.0
67.5°	2305.8	2363.6	2542.8	2996.4	3164.0	7059.1	19053.5	24763.1	23954.1	17932.3	17097.3
70°	1745.3	1794.4	1962.0	2583.2	2956.0	3785.3	15031.3	25632.9	25864.1	20171.7	17900.5
72.5°	1202.0	1256.9	1444.8	2152.7	2814.4	3002.2	9434.3	23286.6	24162.1	21093.5	17039.5
75°	736.8	774.4	884.2	1632.6	2794.2	2935.7	5192.5	19082.4	20009.9	19489.8	14907.0
77.5°	520.1	517.2	537.4	956.4	2421.4	2953.1	3201.6	13982.4	14883.9	14363.8	10116.2
80°	378.5	381.4	401.6	572.1	1644.1	3002.2	2522.5	9364.9	9633.6	7489.6	3990.4
82.5°	228.3	239.8	289.0	387.2	988.2	2710.4	2331.8	5204.0	4868.8	2404.1	1098.0
85°	121.4	121.4	170.5	245.6	525.9	2022.7	2245.2	2476.3	2074.7	745.5	407.4
87.5°	28.9	28.9	49.1	98.2	210.9	968.0	1531.4	985.3	788.8	251.4	167.6
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°	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0	6042.0
2.5°	6108.4	6073.8	6117.1	6030.4	5961.1	5964.0	5857.0	5851.3	5836.8	5761.7	5787.7
5°	6177.8	6148.9	6099.8	6004.4	5851.3	5698.1	5605.7	5487.2	5438.1	5412.1	5423.6
7.5°	6244.2	6192.2	6050.6	5917.7	5680.8	5391.8	5224.2	5065.3	4863.1	4839.9	4799.5
10°	6261.6	6151.8	5969.7	5686.6	5371.6	5050.9	4669.5	4374.7	4218.7	4097.3	4051.1
12.5°	6235.6	6189.3	5839.7	5475.6	4998.9	4496.1	4051.1	3635.0	3346.1	3195.8	3155.4
15°	6232.7	6151.8	5695.2	5154.9	4545.2	3889.3	3256.5	2756.6	2453.2	2328.9	2328.9
17.5°	6235.6	6042.0	5524.8	4831.3	4010.6	3123.6	2427.2	2016.9	1849.3	1832.0	1846.4
20°	6177.8	5961.1	5345.6	4449.9	3340.3	2346.3	1762.6	1595.0	1595.0	1618.1	1626.8
22.5°	6125.8	5839.7	5062.4	3978.9	2658.4	1699.0	1433.2	1384.1	1439.0	1479.4	1496.8
25°	6053.5	5738.6	4773.5	3490.5	2022.7	1369.6	1245.4	1256.9	1309.0	1381.2	1375.4
27.5°	5949.5	5562.3	4429.6	2924.2	1505.4	1181.8	1150.0	1155.8	1210.7	1242.5	1236.7
30°	5831.0	5383.2	4111.8	2360.7	1193.4	1083.6	1080.7	1095.1	1103.8	1121.1	1118.2
32.5°	5680.8	5146.2	3773.7	1834.8	1074.9	1028.7	1017.1	1008.4	1017.1	1014.2	1005.6
35°	5573.9	5019.1	3429.9	1398.5	1008.4	979.5	970.9	956.4	944.9	927.5	924.6
37.5°	5545.0	4892.0	3068.7	1141.4	956.4	942.0	913.1	887.1	872.6	864.0	858.2
40°	5527.6	4808.2	2716.1	1002.7	913.1	898.6	864.0	829.3	814.8	806.2	809.1
42.5°	5588.3	4761.9	2357.8	933.3	875.5	849.5	812.0	771.5	768.6	762.8	771.5
45°	5802.1	4819.7	2025.6	884.2	838.0	794.6	745.5	725.3	722.4	716.6	722.4
47.5°	6287.6	4964.2	1742.4	852.4	797.5	759.9	707.9	679.0	676.1	673.3	673.3
50°	6958.0	5409.2	1505.4	814.8	771.5	719.5	670.4	638.6	632.8	621.2	621.2
52.5°	8009.7	6157.6	1363.9	794.6	725.3	681.9	629.9	595.2	580.8	569.2	569.2
55°	9194.4	7085.1	1337.8	759.9	676.1	635.7	589.5	554.8	540.3	525.9	520.1
57.5°	10543.8	8313.1	1522.8	736.8	641.5	589.5	537.4	505.7	494.1	479.7	473.9
60°	11800.8	9538.3	2097.8	702.2	609.7	546.1	494.1	462.3	447.9	433.4	433.4
62.5°	13254.2	11055.3	3071.6	702.2	580.8	499.9	447.9	424.8	416.1	401.6	398.8
65°	14973.5	12624.3	3782.4	745.5	572.1	459.4	404.5	381.4	372.7	364.1	361.2
67.5°	16282.4	13525.8	3253.6	861.1	609.7	424.8	361.2	346.7	341.0	332.3	326.5
70°	16421.1	12976.8	1962.0	930.4	647.3	390.1	323.6	309.2	309.2	300.5	294.7
72.5°	15175.7	11514.7	1320.5	829.3	586.6	349.6	286.1	274.5	268.7	262.9	260.1
75°	12699.4	9766.6	1043.1	661.7	450.8	289.0	248.5	236.9	228.3	225.4	219.6
77.5°	8529.9	6348.3	771.5	517.2	332.3	234.1	208.0	196.5	187.8	184.9	176.3
80°	3276.7	2418.5	497.0	375.6	234.1	184.9	164.7	153.1	147.4	138.7	132.9
82.5°	965.1	783.1	277.4	231.2	150.3	127.1	118.5	109.8	101.1	92.5	89.6
85°	398.8	358.3	170.5	121.4	92.5	75.1	69.3	60.7	52.0	46.2	40.5
87.5°	184.9	153.1	78.0	46.2	31.8	17.3	8.7	2.9	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)