

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: P480499

Luminaire Tested: **IFLD-S-SA3D-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480499
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

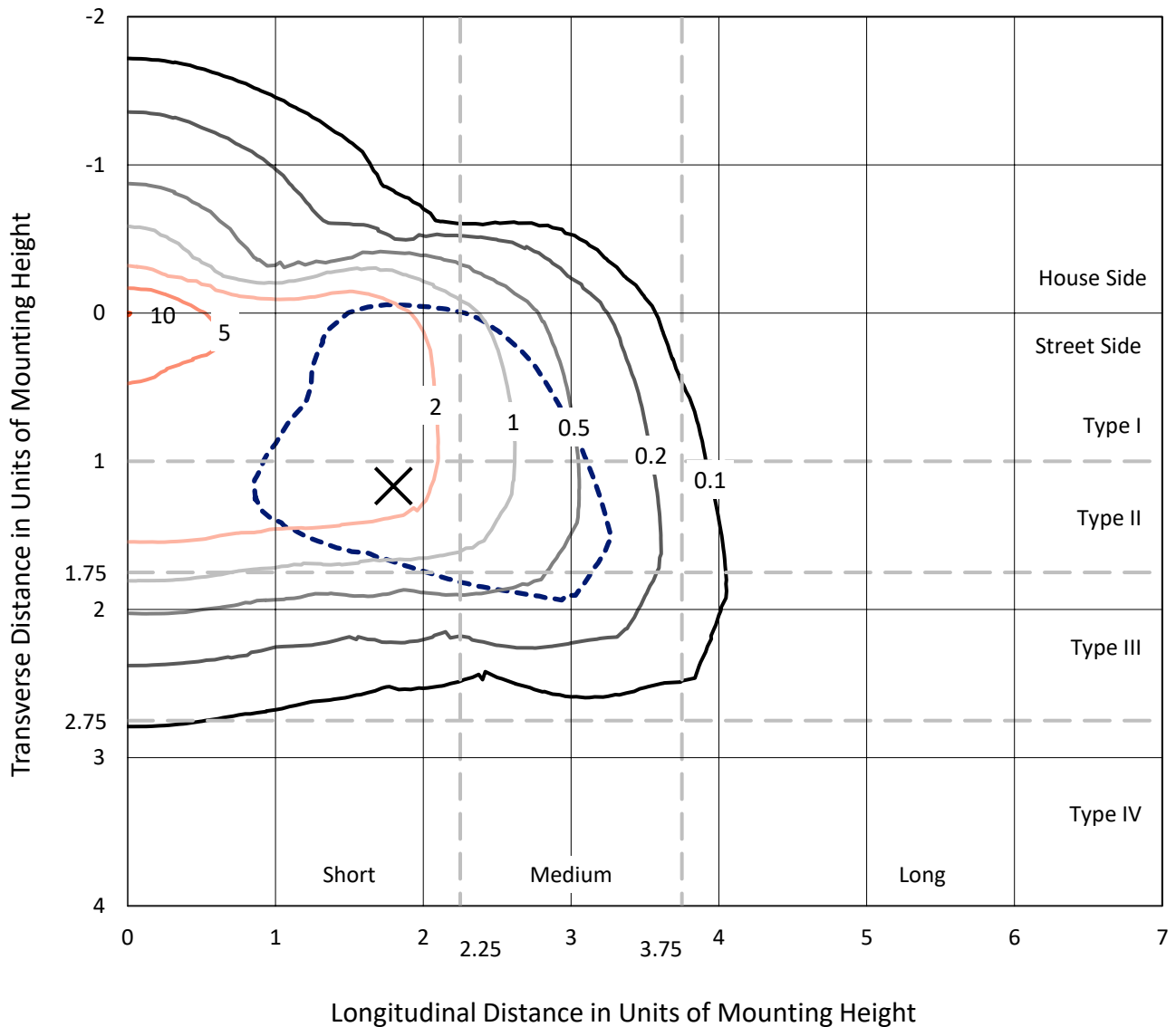
Lumens per Lamp: N/A
Luminaire Lumens: 22997.6 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1
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

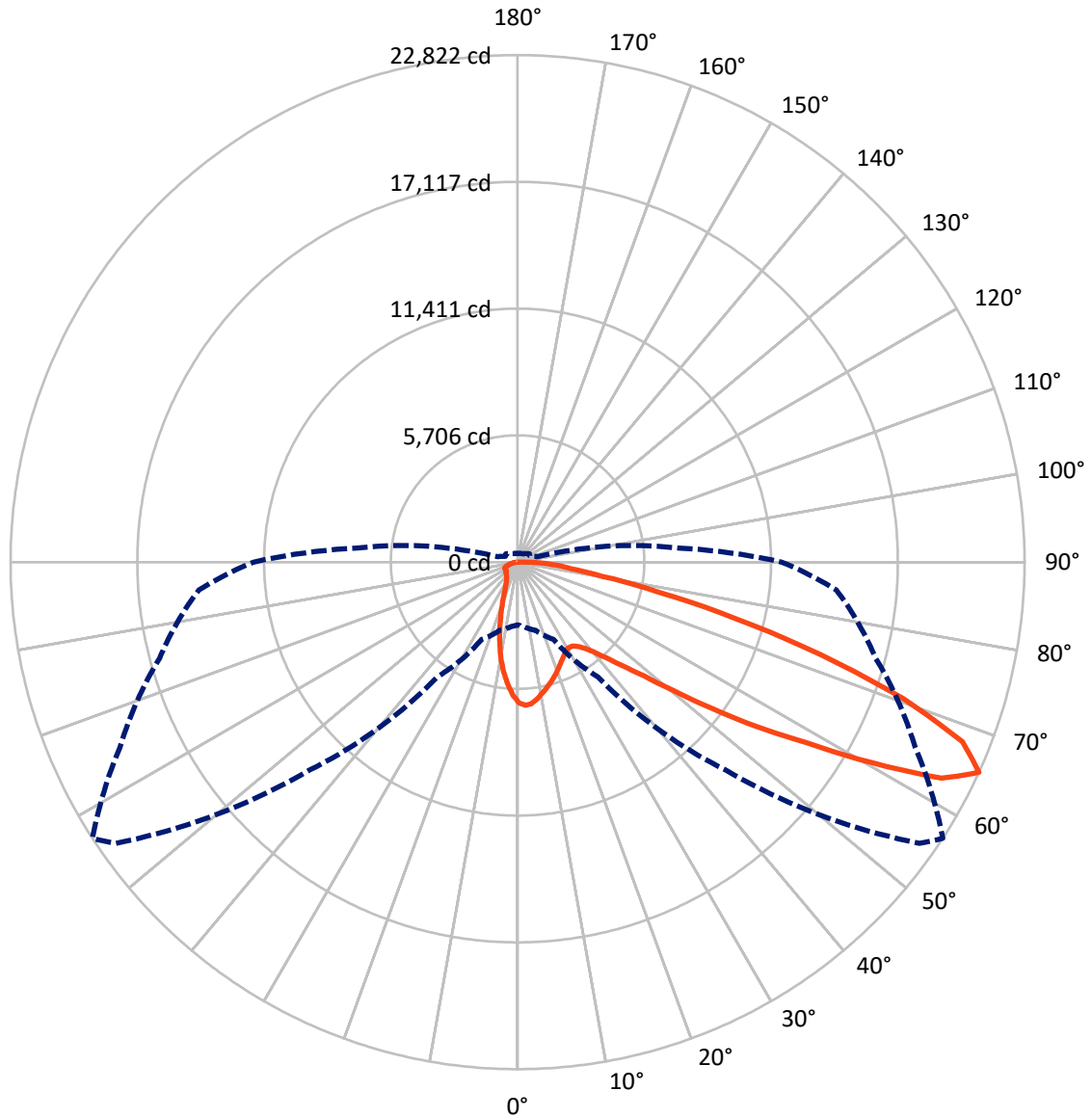
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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
House Side	Lumens	3526.9	0.0	3526.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	19470.7	0.0	19470.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	22997.6	0.0	22997.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.6	2.3
10°-20°	1139.8	5.0
20°-30°	1473.6	6.4
30°-40°	1983.0	8.6
40°-50°	3162.0	13.7
50°-60°	5584.8	24.3
60°-70°	6144.0	26.7
70°-80°	2570.1	11.2
80°-90°	410.8	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°	22997.6	100.0
0°-180°	22997.6	100.0

Coefficient of Utilization



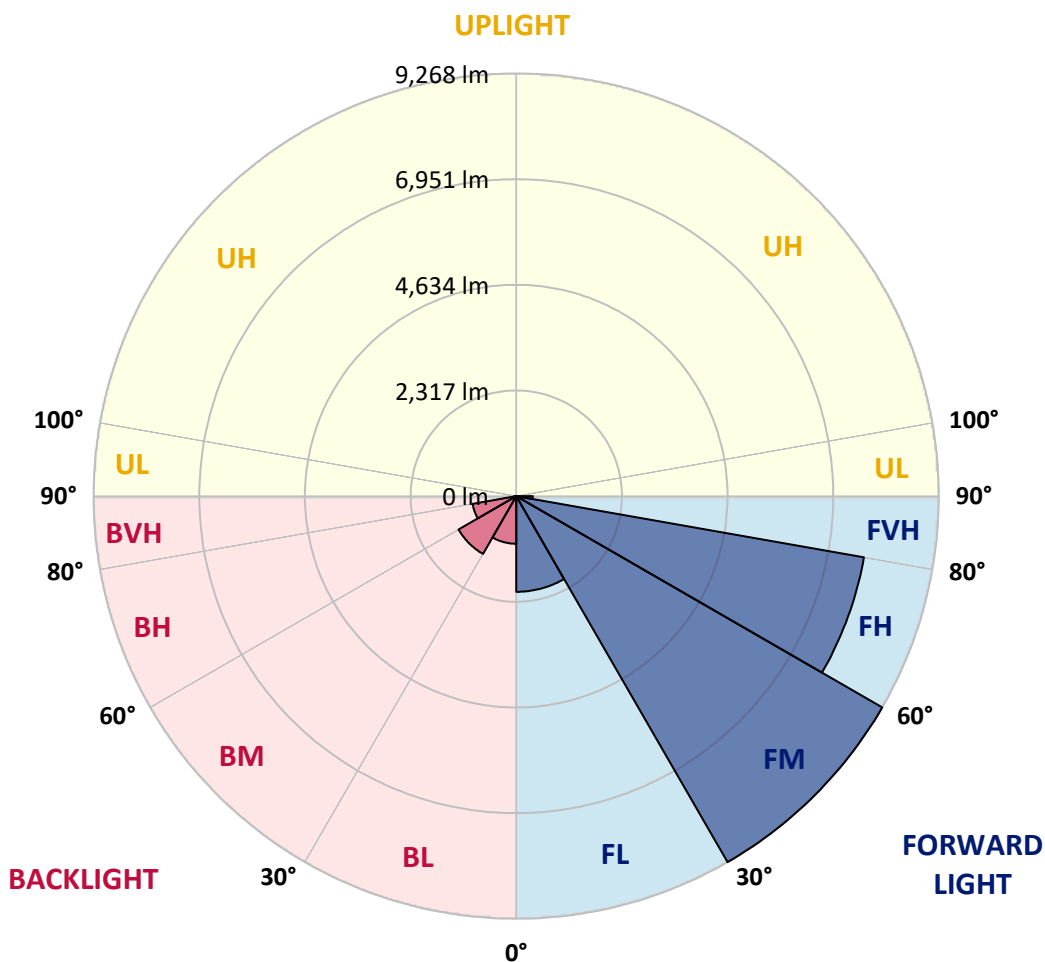
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2098.5	9.1			
FM (30°-60°)	9268.0	40.3			
FH (60°-80°)	7741.7	33.7			G4/12000
FVH (80°-90°)	362.6	1.6			G3/500
BL (0°-30°)	1044.5	4.5	B3/2500		
BM (30°-60°)	1461.7	6.4	B2/2500		
BH (60°-80°)	972.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	48.2	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°	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0
2.5°	6494.8	6505.2	6505.2	6525.9	6456.0	6489.6	6484.5	6453.4	6463.8	6409.4	6355.1
5°	6311.1	6303.3	6344.7	6349.9	6404.2	6419.8	6432.7	6412.0	6417.2	6298.1	6246.4
7.5°	5840.1	5837.6	5907.4	5966.9	6080.8	6186.9	6256.7	6236.0	6264.5	6189.5	6067.9
10°	5281.2	5340.7	5413.2	5472.7	5682.3	5816.9	5998.0	6016.1	6124.8	6106.7	5886.7
12.5°	4862.0	4887.9	4942.3	5113.0	5304.5	5527.1	5785.8	5809.1	5915.2	5966.9	5775.5
15°	4517.9	4541.2	4611.1	4737.8	4952.6	5216.5	5545.2	5604.7	5816.9	5835.0	5630.6
17.5°	4266.9	4285.0	4331.6	4458.4	4634.3	4973.3	5283.8	5389.9	5669.4	5757.3	5480.5
20°	4168.6	4129.8	4155.6	4235.9	4411.8	4673.2	5074.2	5167.4	5524.5	5697.8	5338.2
22.5°	4124.6	4090.9	4106.5	4101.3	4241.0	4427.3	4849.1	4947.4	5387.3	5628.0	5211.4
25°	4158.2	4158.2	4142.7	4129.8	4145.3	4266.9	4605.9	4758.5	5203.6	5568.5	5082.0
27.5°	4339.4	4269.5	4277.3	4222.9	4207.4	4207.4	4497.2	4587.8	5144.1	5534.8	4975.9
30°	4455.8	4489.4	4492.0	4411.8	4331.6	4186.7	4396.3	4484.3	5094.9	5576.2	4913.8
32.5°	4753.4	4737.8	4693.9	4678.3	4559.3	4396.3	4445.4	4505.0	5066.5	5669.4	4931.9
35°	5050.9	5043.2	5045.8	5038.0	4913.8	4673.2	4577.4	4657.6	5118.2	5832.4	4994.0
37.5°	5358.9	5379.6	5467.5	5467.5	5335.6	5074.2	4947.4	4924.1	5307.1	6098.9	5141.5
40°	5666.8	5718.5	5829.8	6005.8	5819.4	5576.2	5371.8	5335.6	5534.8	6456.0	5496.0
42.5°	5961.8	6047.2	6267.1	6528.4	6466.3	6223.1	5951.4	5910.0	6003.2	6986.4	5990.2
45°	6339.5	6412.0	6758.7	7159.8	7245.2	7030.4	6712.2	6678.5	6673.3	7762.7	6670.8
47.5°	6914.0	6991.6	7338.3	7742.0	8005.9	8039.6	7682.5	7646.3	7522.1	8810.7	7667.0
50°	7633.3	7760.1	8052.5	8523.5	8906.4	9266.1	9165.2	9059.1	8815.9	10029.4	8929.7
52.5°	8158.6	8313.9	8709.8	9312.7	9988.0	10559.9	10922.1	10922.1	10363.2	11367.2	10448.6
55°	8298.3	8391.5	8890.9	9762.9	10919.5	12366.0	13124.2	13067.2	12205.6	12774.8	12215.9
57.5°	7742.0	7863.6	8469.1	9382.5	11408.6	14055.7	15310.7	15323.6	14218.7	14410.2	13959.9
60°	6210.2	6249.0	6963.2	8184.5	10937.7	15416.7	18296.7	18345.9	16508.7	15867.0	14847.5
62.5°	4292.8	4417.0	4955.2	6026.5	9061.7	15264.1	21176.7	21419.9	18343.3	16635.5	14987.2
65°	2825.6	2900.7	3187.9	3840.0	6308.5	13230.2	22072.0	22822.4	19745.8	16679.5	14402.4
67.5°	2049.4	2062.3	2147.7	2484.1	3790.8	9514.5	20542.7	21601.0	20271.0	16312.0	13031.0
70°	1656.0	1666.4	1697.4	1912.2	2447.8	5954.0	16754.5	18413.2	18695.2	14570.6	10495.2
72.5°	1345.5	1358.5	1397.3	1599.1	2018.3	3312.1	12252.1	14273.0	15207.2	10779.8	6976.1
75°	1058.3	1068.7	1161.8	1361.1	1896.7	2274.5	8127.6	10107.1	10233.8	6300.7	3265.5
77.5°	724.5	742.6	856.5	1154.1	1785.4	1989.8	5066.5	6474.1	5809.1	2466.0	1123.0
80°	460.6	486.5	553.7	874.6	1578.4	1899.3	3151.7	3865.8	2543.6	843.5	540.8
82.5°	271.7	297.6	364.8	566.7	1239.4	1762.1	2220.1	2419.4	1192.9	432.1	326.0
85°	150.1	168.2	219.9	341.6	727.1	1565.5	1777.7	1736.3	683.1	230.3	204.4
87.5°	49.2	56.9	80.2	137.1	300.2	737.5	1066.1	1001.4	354.5	106.1	80.2
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°	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0	6324.0
2.5°	6318.8	6311.1	6194.6	6106.7	5956.6	5832.4	5783.2	5715.9	5713.4	5664.2	5651.3
5°	6166.2	6086.0	5907.4	5736.6	5470.1	5291.6	5128.6	5014.7	4968.1	4867.2	4843.9
7.5°	5969.5	5863.4	5589.2	5268.3	4955.2	4675.7	4422.2	4168.6	4026.3	3977.1	3922.8
10°	5765.1	5578.8	5172.6	4812.9	4375.6	3946.0	3547.6	3190.5	2996.4	2859.3	2799.8
12.5°	5602.1	5353.7	4836.2	4298.0	3720.9	3146.5	2683.3	2308.1	2088.2	1984.7	1938.1
15°	5418.4	5089.8	4468.7	3788.2	3068.9	2416.8	1964.0	1669.0	1581.0	1531.8	1524.1
17.5°	5224.3	4843.9	4070.2	3286.2	2432.3	1819.1	1526.7	1407.6	1368.8	1348.1	1337.8
20°	5043.2	4624.0	3661.4	2727.3	1904.5	1459.4	1322.2	1260.1	1257.6	1267.9	1265.3
22.5°	4787.0	4336.8	3257.8	2209.8	1521.5	1270.5	1182.5	1167.0	1182.5	1195.5	1200.6
25°	4642.1	4101.3	2807.5	1754.4	1257.6	1128.2	1099.7	1094.5	1117.8	1133.4	1130.8
27.5°	4492.0	3858.1	2388.3	1405.1	1102.3	1027.3	1022.1	1027.3	1050.6	1073.8	1071.3
30°	4375.6	3664.0	1995.0	1174.8	983.3	954.8	949.6	954.8	967.8	970.3	970.3
32.5°	4279.8	3433.7	1661.2	1019.5	910.8	887.5	892.7	890.1	892.7	895.3	897.9
35°	4222.9	3296.6	1386.9	923.8	851.3	833.2	830.6	822.8	825.4	828.0	825.4
37.5°	4344.5	3229.3	1169.6	856.5	809.9	794.4	789.2	784.0	776.3	776.3	776.3
40°	4528.2	3193.1	1037.6	812.5	778.9	760.7	745.2	740.0	740.0	742.6	745.2
42.5°	4893.1	3252.6	947.1	778.9	740.0	719.3	703.8	706.4	714.2	721.9	716.8
45°	5421.0	3433.7	905.6	753.0	716.8	688.3	677.9	675.4	683.1	696.1	706.4
47.5°	6111.8	3715.8	890.1	729.7	701.2	662.4	649.5	657.2	667.6	685.7	677.9
50°	7242.6	4349.7	903.1	709.0	677.9	649.5	634.0	626.2	634.0	646.9	652.1
52.5°	8720.1	5501.2	952.2	698.6	662.4	639.1	613.3	600.3	608.1	618.4	618.4
55°	10487.4	7074.4	1089.4	685.7	636.5	623.6	595.1	569.3	574.4	574.4	571.9
57.5°	12045.1	8262.1	1252.4	667.6	621.0	602.9	566.7	535.6	530.5	533.0	535.6
60°	12743.8	8577.8	1330.0	662.4	621.0	577.0	527.9	496.8	489.1	483.9	483.9
62.5°	12622.2	8031.8	1172.2	639.1	636.5	556.3	491.6	458.0	447.6	437.3	439.9
65°	11887.3	7253.0	923.8	608.1	639.1	543.4	455.4	421.8	403.7	390.7	388.1
67.5°	10544.3	6192.1	732.3	584.8	613.3	520.1	424.4	385.5	370.0	357.1	351.9
70°	8249.2	4854.3	636.5	553.7	551.2	463.2	388.1	354.5	331.2	315.7	315.7
72.5°	5348.5	3068.9	546.0	491.6	476.1	388.1	336.4	315.7	297.6	284.6	284.6
75°	2422.0	1425.8	439.9	411.4	388.1	310.5	284.6	274.3	258.8	245.8	245.8
77.5°	869.4	608.1	328.6	323.4	289.8	240.6	230.3	222.5	212.2	199.2	199.2
80°	486.5	385.5	245.8	235.5	201.8	178.5	165.6	165.6	160.4	152.7	150.1
82.5°	307.9	251.0	181.1	157.8	132.0	119.0	113.9	111.3	108.7	98.3	95.7
85°	194.1	170.8	119.0	93.2	77.6	59.5	56.9	54.3	49.2	44.0	44.0
87.5°	88.0	98.3	46.6	28.5	20.7	12.9	7.8	2.6	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)