

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: P480850

Luminaire Tested: **IFLD-S-SA3D-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480850
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

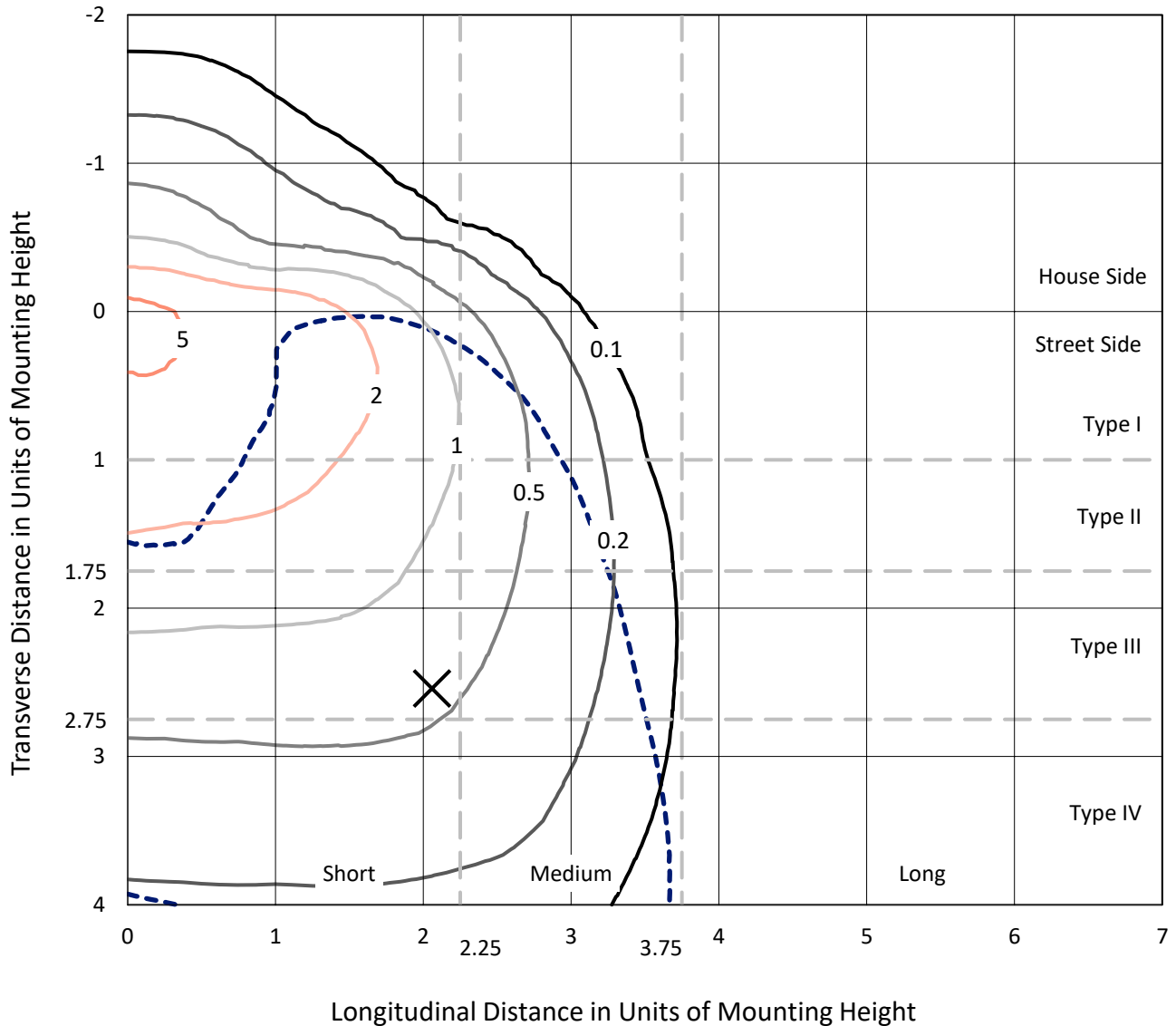
Lumens per Lamp: N/A
Luminaire Lumens: 22235.6 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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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 CATALOG NUMBER: IFLD-S-SA3D-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

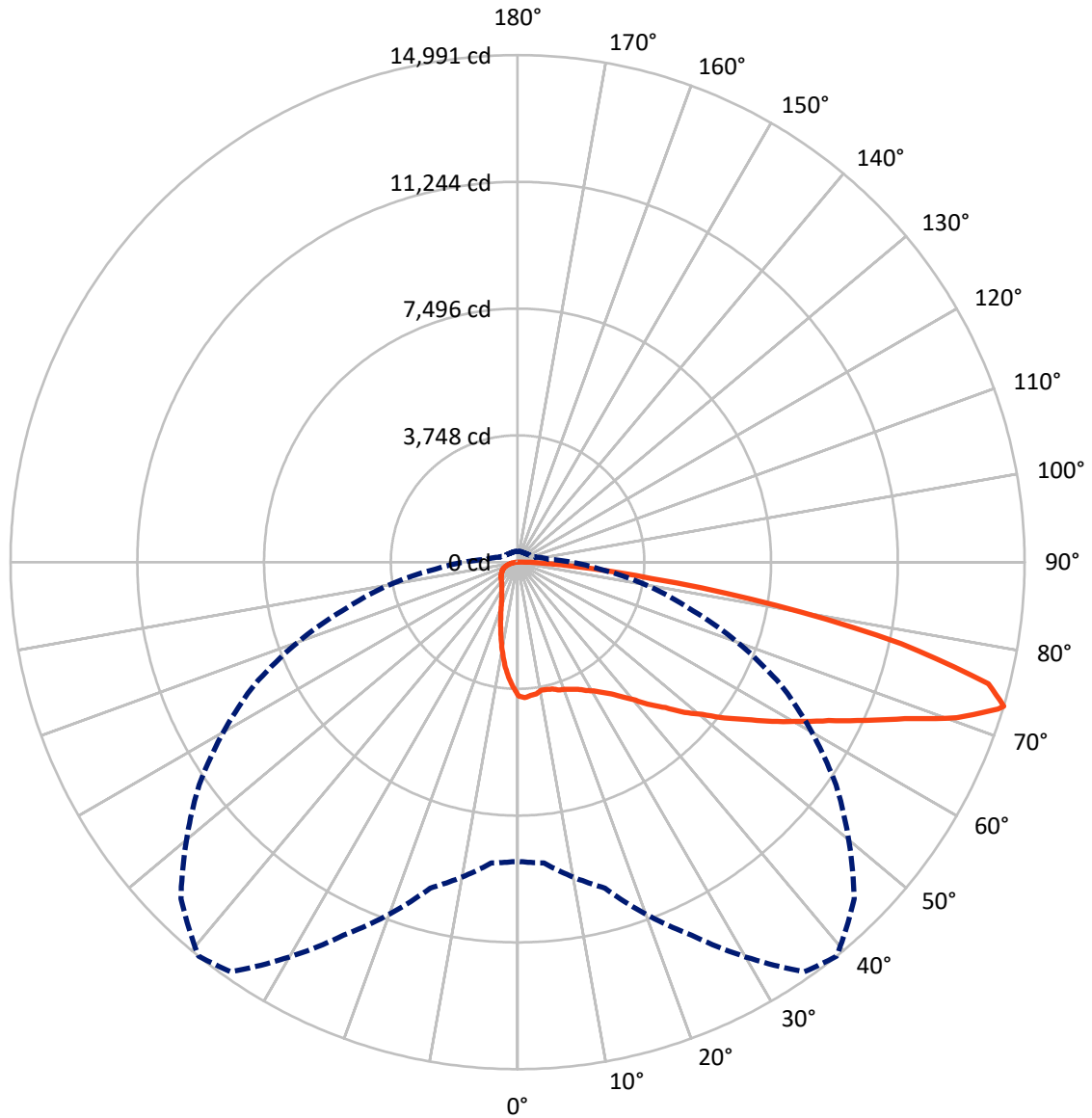
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3125.7	0.0	3125.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19109.9	0.0	19109.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	22235.6	0.0	22235.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.6	1.5
10°-20°	873.5	3.9
20°-30°	1334.7	6.0
30°-40°	1946.1	8.8
40°-50°	2940.7	13.2
50°-60°	4258.4	19.2
60°-70°	5410.5	24.3
70°-80°	4386.0	19.7
80°-90°	742.1	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°	22235.6	100.0
0°-180°	22235.6	100.0

Coefficient of Utilization



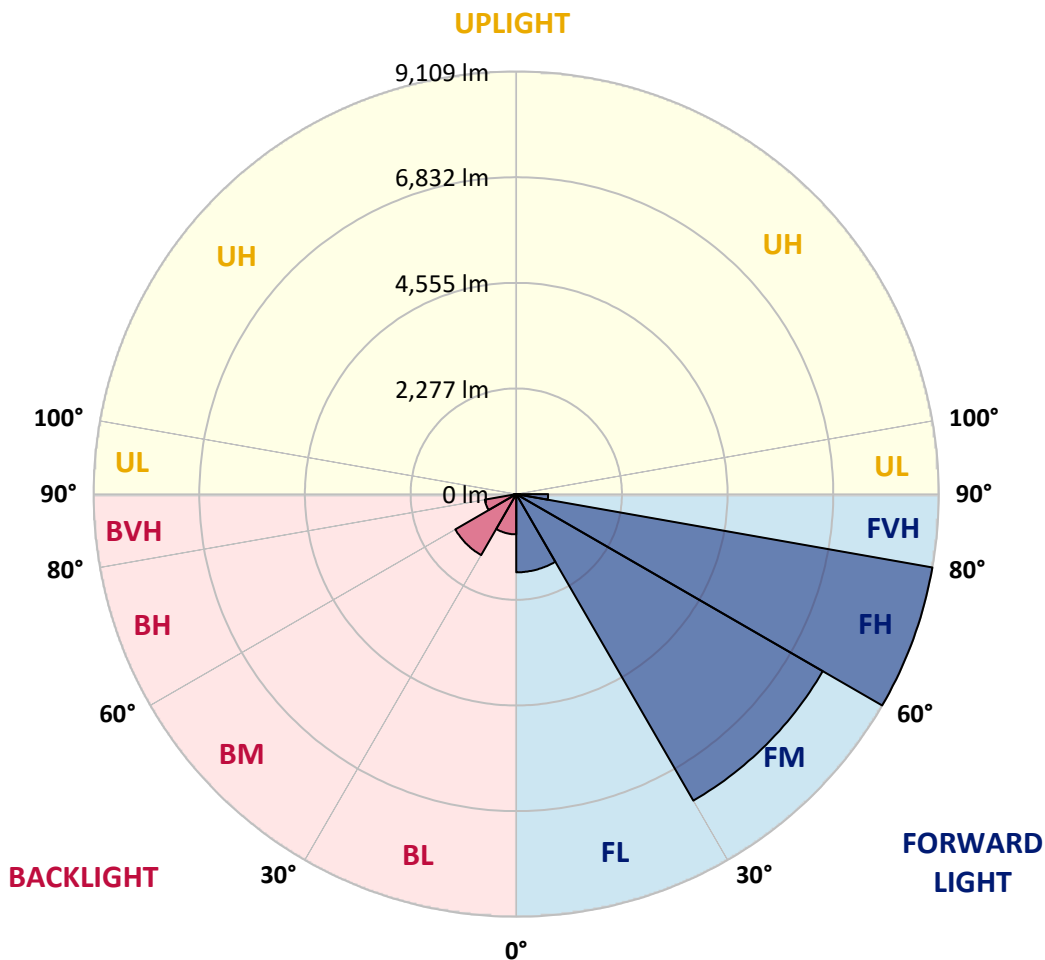
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1685.0	7.6			
FM (30°-60°)	7628.2	34.3			
FH (60°-80°)	9109.0	41.0			G4/12000
FVH (80°-90°)	687.6	3.1			G4/750
BL (0°-30°)	866.8	3.9	B2/1000		
BM (30°-60°)	1517.0	6.8	B2/2500		
BH (60°-80°)	687.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	54.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P480850

CATALOG NUMBER: IFLD-S-SA3D-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1
2.5°	4052.6	4010.3	4017.8	4002.8	4017.8	4012.8	4005.3	3968.0	4005.3	3968.0	3958.1
5°	3997.9	3997.9	4022.7	3985.4	3990.4	3965.5	3990.4	3963.0	3938.2	3876.0	3858.6
7.5°	3980.5	3978.0	3980.5	3928.2	3953.1	3938.2	3913.3	3883.4	3833.7	3793.9	3736.6
10°	3861.0	3885.9	3858.6	3873.5	3893.4	3848.6	3846.1	3838.6	3816.3	3764.0	3729.2
12.5°	3796.4	3838.6	3853.6	3841.1	3858.6	3863.5	3848.6	3838.6	3811.3	3776.5	3676.9
15°	3823.7	3774.0	3816.3	3898.4	3880.9	3893.4	3895.9	3885.9	3873.5	3808.8	3744.1
17.5°	3831.2	3801.3	3890.9	3908.3	3930.7	3975.5	3945.6	3943.1	3895.9	3851.1	3756.6
20°	3848.6	3836.2	3908.3	4000.4	4002.8	4010.3	4025.2	3987.9	3963.0	3885.9	3741.6
22.5°	3913.3	3955.6	4022.7	4062.5	4084.9	4089.9	4089.9	4015.3	3987.9	3925.7	3811.3
25°	4107.3	4062.5	4157.1	4204.4	4172.0	4164.5	4147.1	4080.0	4050.1	3995.4	3843.6
27.5°	4249.1	4246.6	4301.4	4366.1	4279.0	4296.4	4234.2	4214.3	4147.1	4117.3	3900.8
30°	4443.2	4497.9	4495.4	4515.3	4400.9	4420.8	4341.2	4303.9	4266.5	4284.0	4070.0
32.5°	4692.0	4672.1	4704.4	4689.5	4575.0	4592.4	4497.9	4440.7	4453.1	4505.4	4301.4
35°	4851.2	4831.3	4843.7	4843.7	4808.9	4789.0	4749.2	4674.5	4734.3	4831.3	4560.1
37.5°	5022.8	5047.7	5119.9	5104.9	5060.1	5060.1	5055.2	5002.9	5080.1	5318.9	4973.1
40°	5174.6	5241.8	5286.5	5316.4	5368.6	5368.6	5410.9	5381.1	5520.4	5903.5	5478.1
42.5°	5333.8	5336.3	5580.1	5602.5	5719.4	5769.2	5801.5	5826.4	6087.6	6515.5	6017.9
45°	5537.8	5550.2	5764.2	5935.8	6117.5	6134.9	6256.8	6338.9	6659.8	7184.7	6605.1
47.5°	5806.5	5791.6	6020.4	6294.1	6520.5	6639.9	6786.7	6876.2	7271.8	7911.1	7246.9
50°	6159.7	6115.0	6246.8	6677.2	6943.4	7075.3	7336.5	7485.7	7948.5	8605.2	7687.2
52.5°	6590.1	6515.5	6620.0	7090.2	7388.7	7654.9	7903.7	8070.4	8553.0	9142.6	8013.1
55°	7045.4	6891.2	6921.0	7528.0	7958.4	8209.7	8550.5	8724.7	9217.2	9625.2	8339.0
57.5°	7495.7	7398.7	7339.0	7948.5	8637.6	8878.9	9192.4	9418.7	9836.7	10053.1	8615.2
60°	7873.8	7849.0	7751.9	8600.3	9356.6	9563.0	9891.4	10030.7	10346.7	10448.7	8620.2
62.5°	8184.8	8100.2	8254.5	9125.2	10088.0	10321.8	10682.5	10695.0	10918.9	10695.0	8366.4
65°	8428.6	8433.6	8679.9	9759.6	10933.8	11279.6	11570.7	11538.3	11394.0	10548.2	7766.9
67.5°	8650.0	8744.6	9105.3	10456.2	12021.0	12346.9	12670.3	12242.4	11523.4	9861.6	6595.1
70°	8824.2	8918.7	9680.0	11304.5	13302.2	13779.8	13852.0	12521.0	10928.8	8354.0	4975.6
72.5°	8804.3	8975.9	10005.9	11981.2	14439.1	14852.1	14269.9	11737.4	9105.3	5823.9	2903.2
73°	8846.6	8931.1	9978.5	12170.2	14784.9	14991.4	14075.9	11491.1	8587.8	5224.3	2455.4
75°	8030.6	8316.7	9483.4	11861.7	14414.2	14376.9	12961.3	9575.5	6105.0	2744.0	1189.2
77.5°	5940.8	6122.4	7473.3	9754.6	11831.9	11593.1	9777.0	6119.9	2898.3	1017.5	641.8
80°	2903.2	3045.0	3960.6	5632.3	7737.0	7756.9	6067.7	3184.4	1241.4	574.7	437.8
82.5°	1450.4	1535.0	1903.2	2475.3	3806.3	3987.9	3077.4	1811.1	768.7	325.9	248.8
85°	947.8	1007.6	1171.7	1211.6	1614.6	1704.1	1433.0	1413.1	500.0	176.6	201.5
87.5°	629.4	639.4	719.0	612.0	646.8	621.9	691.6	890.6	146.8	74.6	54.7
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°	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1	3958.1
2.5°	3945.6	3910.8	3873.5	3821.2	3783.9	3726.7	3674.5	3652.1	3647.1	3649.6	3624.7
5°	3843.6	3793.9	3719.2	3612.3	3550.1	3455.5	3375.9	3333.6	3288.8	3296.3	3276.4
7.5°	3701.8	3647.1	3532.7	3408.3	3254.0	3119.7	3045.0	2940.6	2880.9	2836.1	2861.0
10°	3657.0	3562.5	3390.8	3219.2	2980.4	2803.7	2632.1	2512.7	2430.6	2351.0	2385.8
12.5°	3634.7	3540.1	3301.3	3047.5	2739.0	2470.4	2229.1	2082.3	1965.3	1895.7	1923.1
15°	3614.7	3497.8	3216.7	2858.5	2512.7	2159.4	1888.2	1694.2	1582.2	1515.1	1522.5
17.5°	3642.1	3475.4	3092.3	2674.4	2263.9	1885.7	1584.7	1383.2	1268.8	1226.5	1216.5
20°	3614.7	3450.6	2970.4	2490.3	2015.1	1624.5	1335.9	1169.3	1089.6	1054.8	1047.4
22.5°	3624.7	3390.8	2843.5	2286.3	1783.7	1405.6	1169.3	1042.4	980.2	962.8	967.7
25°	3672.0	3356.0	2716.7	2062.4	1554.9	1243.9	1062.3	965.3	920.5	903.1	908.0
27.5°	3706.8	3385.9	2602.2	1850.9	1360.8	1099.6	972.7	908.0	878.2	865.7	863.3
30°	3793.9	3403.3	2490.3	1661.8	1201.6	1005.1	910.5	858.3	838.4	830.9	828.4
32.5°	3923.2	3435.6	2360.9	1487.7	1084.7	915.5	860.8	816.0	811.0	803.6	806.0
35°	4134.7	3547.6	2216.6	1338.4	972.7	855.8	808.5	778.7	778.7	778.7	786.1
37.5°	4438.2	3704.3	2087.2	1196.6	900.6	803.6	763.7	753.8	748.8	756.3	761.3
40°	4828.8	3893.4	1982.8	1084.7	838.4	768.7	733.9	728.9	726.4	723.9	728.9
42.5°	5256.7	4134.7	1893.2	997.6	793.6	731.4	706.5	701.6	691.6	696.6	704.0
45°	5682.1	4433.2	1813.6	927.9	763.7	711.5	676.7	674.2	669.2	666.7	679.2
47.5°	6154.8	4726.8	1788.7	885.7	741.4	681.7	656.8	654.3	639.4	636.9	646.8
50°	6523.0	4943.2	1816.1	865.7	709.0	659.3	641.8	629.4	617.0	604.5	604.5
52.5°	6776.7	5092.5	1836.0	850.8	691.6	629.4	607.0	602.0	589.6	577.2	572.2
55°	7005.6	5182.1	1841.0	853.3	674.2	594.6	579.7	577.2	569.7	549.8	544.8
57.5°	7082.7	5144.7	1741.4	830.9	664.2	572.2	552.3	557.3	547.3	529.9	527.4
60°	7075.3	4886.0	1515.1	801.1	641.8	547.3	522.4	537.4	537.4	517.5	515.0
62.5°	6644.9	4288.9	1238.9	743.8	617.0	522.4	495.1	517.5	524.9	512.5	510.0
65°	5751.8	3492.8	1034.9	686.6	579.7	495.1	467.7	492.6	505.0	500.0	497.6
67.5°	4759.1	2671.9	860.8	612.0	532.4	457.8	435.4	452.8	460.2	462.7	465.2
70°	3363.5	1778.8	719.0	529.9	467.7	417.9	393.1	395.6	393.1	400.5	400.5
72.5°	1828.5	1025.0	584.6	450.3	403.0	363.2	345.8	333.4	333.4	330.9	330.9
73°	1564.8	920.5	557.3	437.8	385.6	353.3	333.4	323.4	323.4	320.9	318.4
75°	878.2	674.2	477.7	375.7	333.4	308.5	293.6	278.6	276.1	276.1	276.1
77.5°	577.2	524.9	380.6	301.0	268.7	246.3	241.3	226.4	226.4	226.4	223.9
80°	432.9	413.0	293.6	228.9	206.5	189.1	184.1	174.1	171.7	161.7	164.2
82.5°	288.6	325.9	213.9	161.7	139.3	129.4	129.4	126.9	119.4	107.0	107.0
85°	228.9	266.2	154.2	99.5	82.1	69.7	72.1	69.7	67.2	54.7	52.2
87.5°	42.3	107.0	44.8	27.4	19.9	12.4	12.4	7.5	5.0	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)