

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: P480343

Luminaire Tested: **IFLD-S-SA3D-722-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480343
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

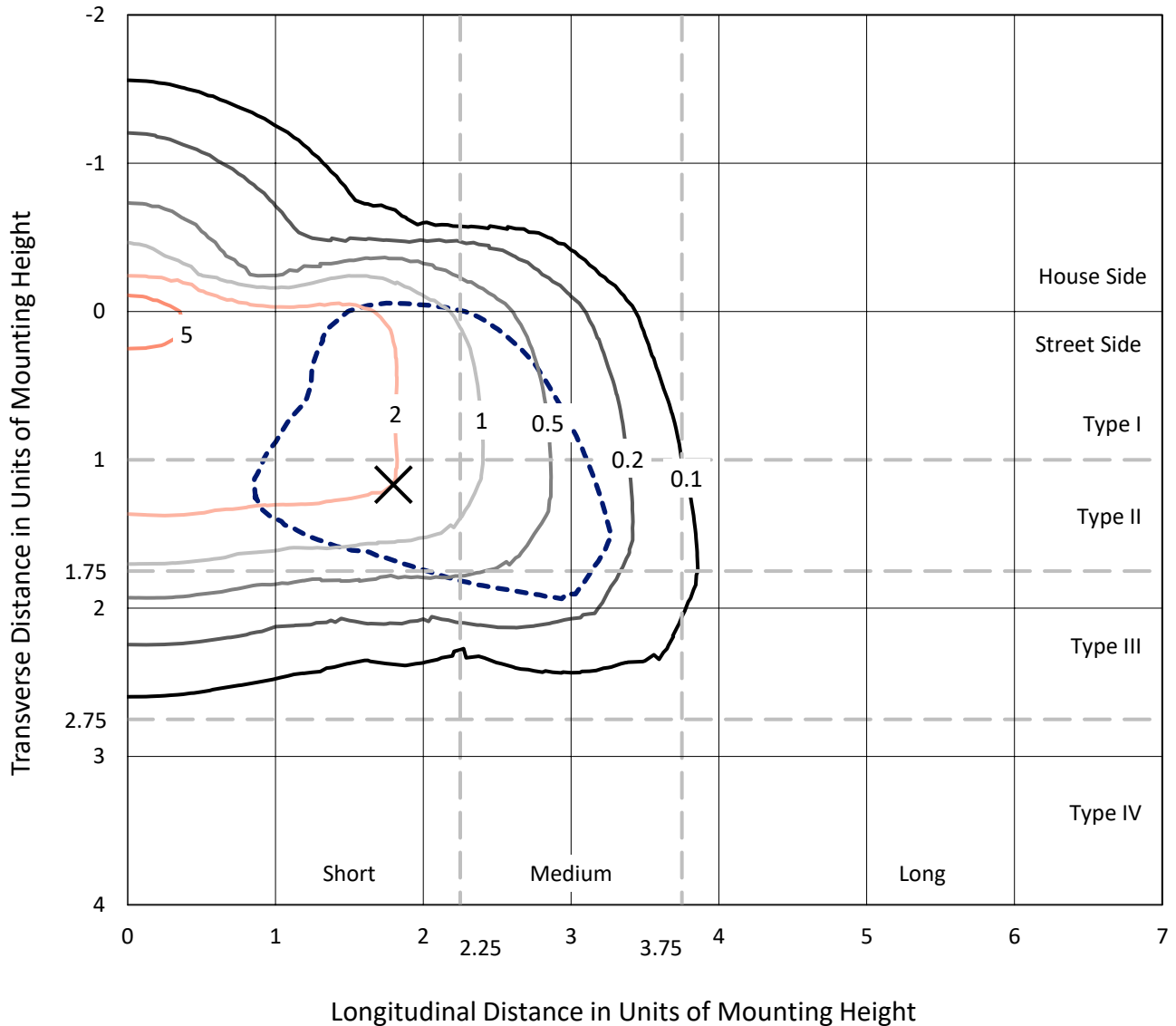
Lumens per Lamp: N/A
Luminaire Lumens: 16940 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

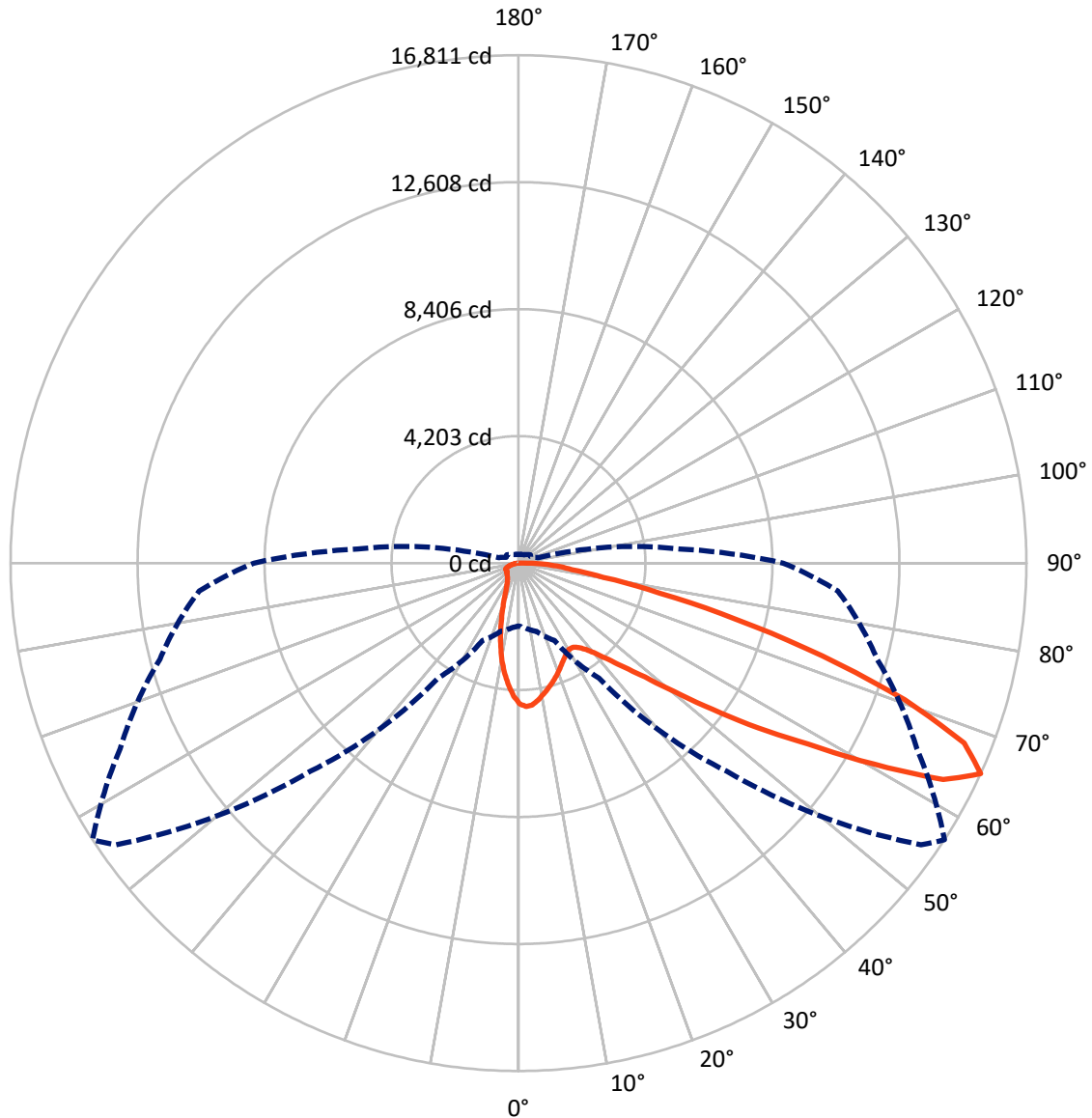
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	2597.9	0.0	2597.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	14342.1	0.0	14342.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	16940.0	0.0	16940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.1	2.3
10°-20°	839.5	5.0
20°-30°	1085.5	6.4
30°-40°	1460.7	8.6
40°-50°	2329.1	13.7
50°-60°	4113.8	24.3
60°-70°	4525.7	26.7
70°-80°	1893.2	11.2
80°-90°	302.6	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°	16940.0	100.0
0°-180°	16940.0	100.0

Coefficient of Utilization



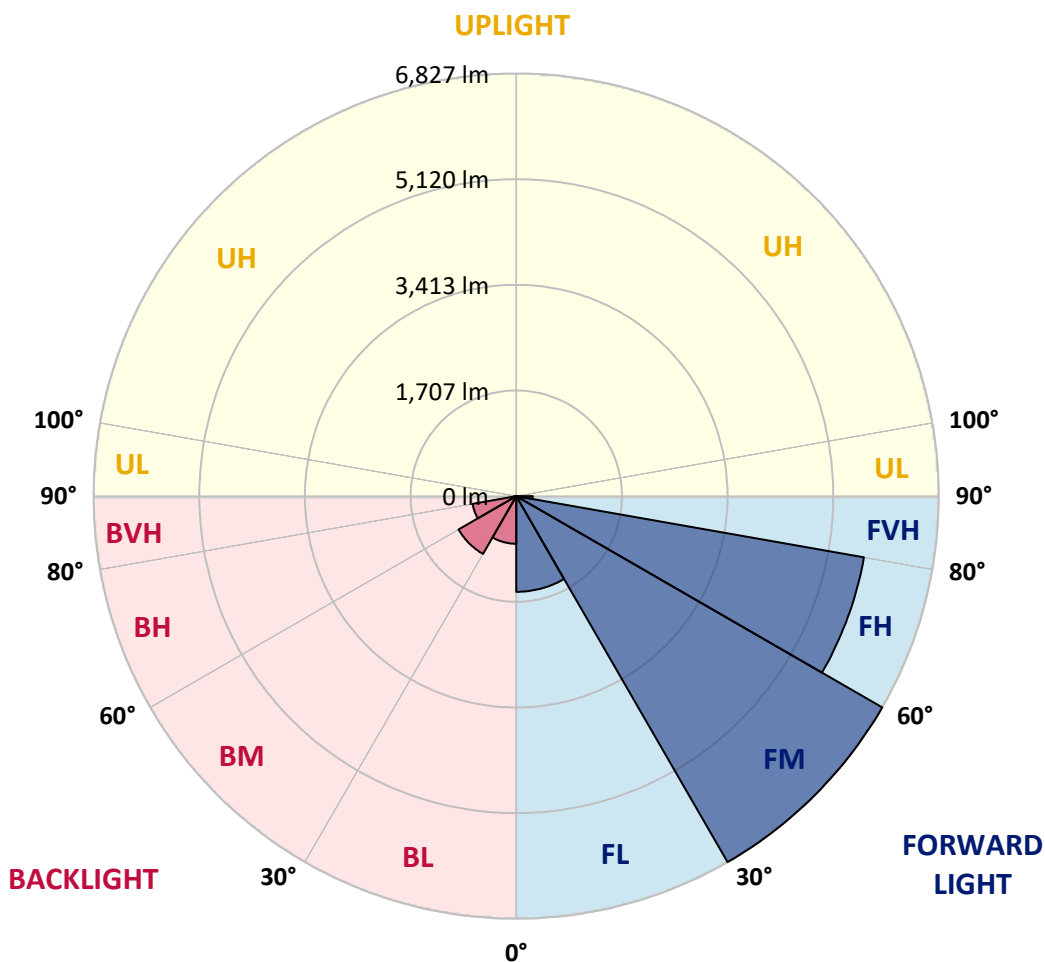
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1545.7	9.1			
FM (30°-60°)	6826.8	40.3			
FH (60°-80°)	5702.5	33.7			G3/7500
FVH (80°-90°)	267.1	1.6			G3/500
BL (0°-30°)	769.4	4.5	B2/1000		
BM (30°-60°)	1076.7	6.4	B2/2500		
BH (60°-80°)	716.3	4.2	B2/1000		G2/1000
BVH (80°-90°)	35.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3
2.5°	4784.1	4791.7	4791.7	4806.9	4755.5	4780.3	4776.4	4753.6	4761.2	4721.2	4681.1
5°	4648.7	4643.0	4673.5	4677.3	4717.4	4728.8	4738.3	4723.1	4726.9	4639.2	4601.1
7.5°	4301.9	4299.9	4351.4	4395.2	4479.1	4557.3	4608.7	4593.5	4614.4	4559.2	4469.6
10°	3890.2	3934.0	3987.4	4031.2	4185.6	4284.7	4418.1	4431.5	4511.5	4498.2	4336.2
12.5°	3581.4	3600.4	3640.5	3766.3	3907.3	4071.2	4261.8	4279.0	4357.1	4395.2	4254.2
15°	3327.9	3345.0	3396.5	3489.9	3648.1	3842.5	4084.6	4128.4	4284.7	4298.0	4147.5
17.5°	3143.0	3156.3	3190.7	3284.0	3413.7	3663.3	3892.1	3970.2	4176.1	4240.9	4036.9
20°	3070.6	3042.0	3061.0	3120.1	3249.7	3442.2	3737.7	3806.3	4069.3	4197.0	3932.1
22.5°	3038.2	3013.4	3024.8	3021.0	3123.9	3261.2	3571.9	3644.3	3968.3	4145.6	3838.7
25°	3062.9	3062.9	3051.5	3042.0	3053.4	3143.0	3392.7	3505.1	3833.0	4101.7	3743.4
27.5°	3196.4	3144.9	3150.6	3110.6	3099.2	3099.2	3312.6	3379.3	3789.1	4076.9	3665.2
30°	3282.1	3306.9	3308.8	3249.7	3190.7	3083.9	3238.3	3303.1	3752.9	4107.4	3619.5
32.5°	3501.3	3489.9	3457.5	3446.1	3358.4	3238.3	3274.5	3318.4	3732.0	4176.1	3632.8
35°	3720.5	3714.8	3716.7	3711.0	3619.5	3442.2	3371.7	3430.8	3770.1	4296.1	3678.6
37.5°	3947.3	3962.6	4027.4	4027.4	3930.2	3737.7	3644.3	3627.1	3909.2	4492.5	3787.2
40°	4174.1	4212.3	4294.2	4423.8	4286.6	4107.4	3956.9	3930.2	4076.9	4755.5	4048.4
42.5°	4391.4	4454.3	4616.3	4808.8	4763.1	4583.9	4383.8	4353.3	4421.9	5146.2	4412.4
45°	4669.7	4723.1	4978.5	5273.9	5336.8	5178.6	4944.2	4919.4	4915.6	5718.0	4913.7
47.5°	5092.8	5150.0	5405.4	5702.8	5897.2	5922.0	5658.9	5632.2	5540.8	6489.9	5647.5
50°	5622.7	5716.1	5931.5	6278.4	6560.5	6825.4	6751.1	6672.9	6493.8	7387.7	6577.6
52.5°	6009.6	6124.0	6415.6	6859.7	7357.2	7778.4	8045.2	8045.2	7633.5	8373.1	7696.4
55°	6112.6	6181.2	6549.0	7191.4	8043.3	9108.8	9667.3	9625.3	8990.6	9409.9	8998.2
57.5°	5702.8	5792.3	6238.4	6911.2	8403.6	10353.4	11277.8	11287.4	10473.5	10614.5	10282.9
60°	4574.4	4603.0	5129.1	6028.7	8056.7	11356.0	13477.4	13513.6	12160.3	11687.6	10936.7
62.5°	3162.1	3253.5	3650.0	4439.1	6674.8	11243.5	15598.7	15777.9	13511.7	12253.7	11039.6
65°	2081.4	2136.6	2348.2	2828.5	4646.8	9745.4	16258.2	16811.0	14544.7	12286.1	10608.8
67.5°	1509.6	1519.1	1582.0	1829.8	2792.3	7008.4	15131.8	15911.3	14931.6	12015.5	9598.6
70°	1219.8	1227.5	1250.3	1408.5	1803.1	4385.7	12341.4	13563.1	13770.9	10732.7	7730.8
72.5°	991.1	1000.7	1029.2	1177.9	1486.7	2439.7	9024.9	10513.5	11201.6	7940.4	5138.6
75°	779.6	787.2	855.8	1002.6	1397.1	1675.4	5986.8	7444.9	7538.2	4641.1	2405.4
77.5°	533.7	547.0	630.9	850.1	1315.1	1465.7	3732.0	4768.8	4279.0	1816.4	827.2
80°	339.3	358.3	407.9	644.2	1162.7	1399.0	2321.5	2847.6	1873.6	621.4	398.4
82.5°	200.1	219.2	268.7	417.4	913.0	1298.0	1635.4	1782.1	878.7	318.3	240.2
85°	110.5	123.9	162.0	251.6	535.6	1153.1	1309.4	1278.9	503.2	169.6	150.6
87.5°	36.2	41.9	59.1	101.0	221.1	543.2	785.3	737.6	261.1	78.1	59.1
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°	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3	4658.3
2.5°	4654.5	4648.7	4563.0	4498.2	4387.6	4296.1	4259.9	4210.4	4208.5	4172.2	4162.7
5°	4542.0	4482.9	4351.4	4225.6	4029.3	3897.8	3777.7	3693.8	3659.5	3585.2	3568.0
7.5°	4397.2	4319.0	4117.0	3880.6	3650.0	3444.1	3257.4	3070.6	2965.7	2929.5	2889.5
10°	4246.6	4109.3	3810.1	3545.2	3223.1	2906.7	2613.1	2350.1	2207.2	2106.1	2062.3
12.5°	4126.5	3943.5	3562.3	3165.9	2740.8	2317.7	1976.5	1700.2	1538.1	1461.9	1427.6
15°	3991.2	3749.1	3291.7	2790.4	2260.5	1780.2	1446.7	1229.4	1164.6	1128.4	1122.6
17.5°	3848.2	3568.0	2998.1	2420.6	1791.6	1339.9	1124.5	1036.9	1008.3	993.0	985.4
20°	3714.8	3406.0	2697.0	2008.9	1402.8	1075.0	974.0	928.2	926.3	933.9	932.0
22.5°	3526.1	3194.5	2399.7	1627.7	1120.7	935.8	871.0	859.6	871.0	880.6	884.4
25°	3419.4	3021.0	2068.0	1292.3	926.3	831.0	810.1	806.2	823.4	834.8	832.9
27.5°	3308.8	2841.9	1759.2	1035.0	812.0	756.7	752.9	756.7	773.8	791.0	789.1
30°	3223.1	2698.9	1469.5	865.3	724.3	703.3	699.5	703.3	712.8	714.8	714.8
32.5°	3152.5	2529.3	1223.7	751.0	670.9	653.8	657.6	655.7	657.6	659.5	661.4
35°	3110.6	2428.2	1021.6	680.4	627.1	613.7	611.8	606.1	608.0	609.9	608.0
37.5°	3200.2	2378.7	861.5	630.9	596.6	585.1	581.3	577.5	571.8	571.8	571.8
40°	3335.5	2352.0	764.3	598.5	573.7	560.4	548.9	545.1	545.1	547.0	548.9
42.5°	3604.3	2395.8	697.6	573.7	545.1	529.9	518.4	520.3	526.1	531.8	528.0
45°	3993.1	2529.3	667.1	554.6	528.0	507.0	499.4	497.5	503.2	512.7	520.3
47.5°	4502.0	2737.0	655.7	537.5	516.5	487.9	478.4	484.1	491.7	505.1	499.4
50°	5334.9	3204.0	665.2	522.2	499.4	478.4	467.0	461.3	467.0	476.5	480.3
52.5°	6423.2	4052.2	701.4	514.6	487.9	470.8	451.7	442.2	447.9	455.5	455.5
55°	7725.0	5211.0	802.4	505.1	468.9	459.3	438.4	419.3	423.1	423.1	421.2
57.5°	8872.5	6085.9	922.5	491.7	457.4	444.1	417.4	394.5	390.7	392.6	394.5
60°	9387.1	6318.4	979.7	487.9	457.4	425.0	388.8	366.0	360.2	356.4	356.4
62.5°	9297.5	5916.2	863.4	470.8	468.9	409.8	362.1	337.4	329.7	322.1	324.0
65°	8756.2	5342.5	680.4	447.9	470.8	400.3	335.5	310.7	297.3	287.8	285.9
67.5°	7767.0	4561.1	539.4	430.8	451.7	383.1	312.6	284.0	272.6	263.0	259.2
70°	6076.3	3575.7	468.9	407.9	406.0	341.2	285.9	261.1	244.0	232.5	232.5
72.5°	3939.7	2260.5	402.2	362.1	350.7	285.9	247.8	232.5	219.2	209.7	209.7
75°	1784.0	1050.2	324.0	303.1	285.9	228.7	209.7	202.0	190.6	181.1	181.1
77.5°	640.4	447.9	242.1	238.3	213.5	177.3	169.6	163.9	156.3	146.8	146.8
80°	358.3	284.0	181.1	173.4	148.7	131.5	122.0	122.0	118.2	112.5	110.5
82.5°	226.8	184.9	133.4	116.3	97.2	87.7	83.9	82.0	80.1	72.4	70.5
85°	143.0	125.8	87.7	68.6	57.2	43.8	41.9	40.0	36.2	32.4	32.4
87.5°	64.8	72.4	34.3	21.0	15.2	9.5	5.7	1.9	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)