

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: P480438

Luminaire Tested: **IFLD-M-SA4A-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480438
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

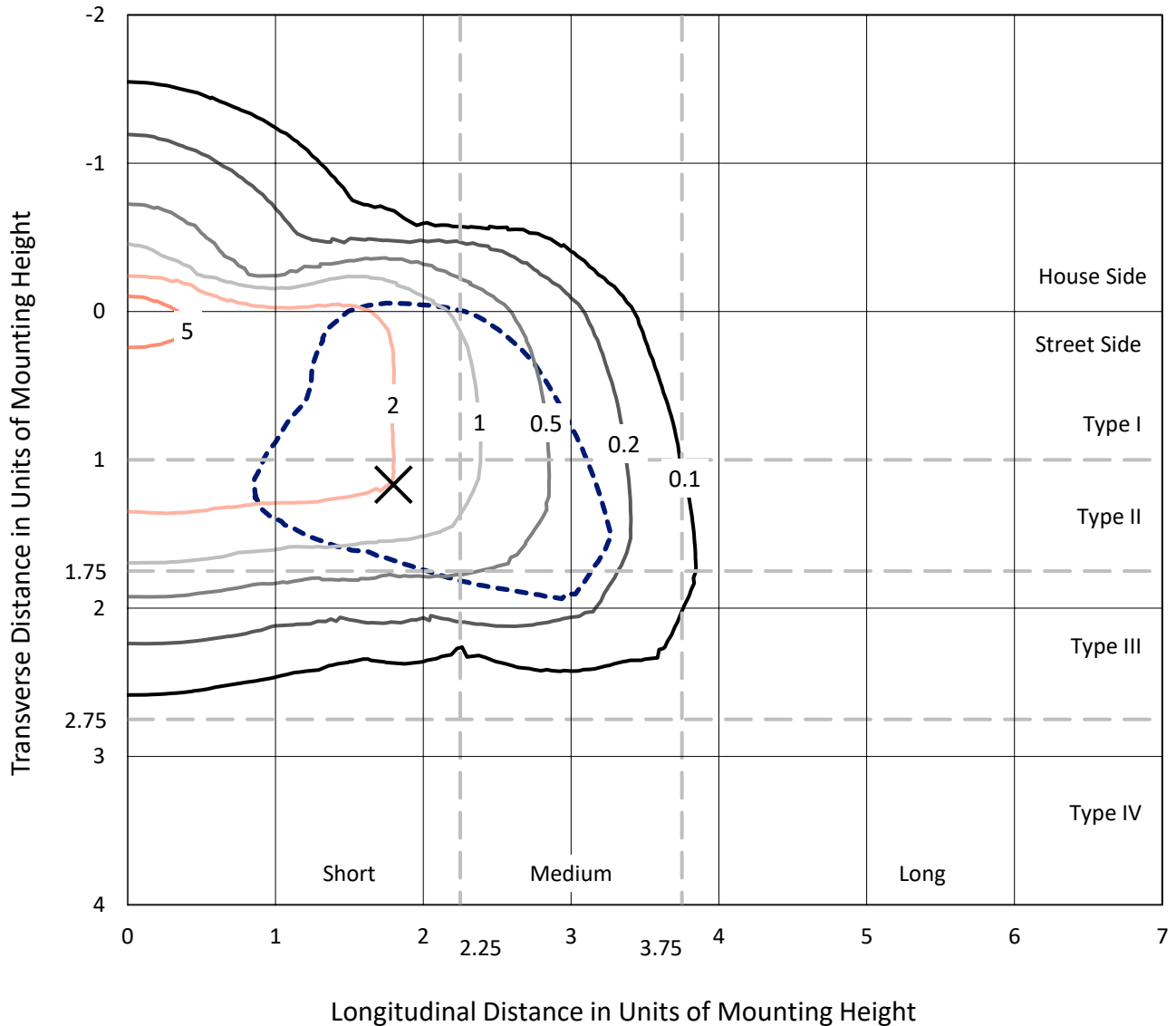
Lumens per Lamp: N/A
Luminaire Lumens: 16593.2 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

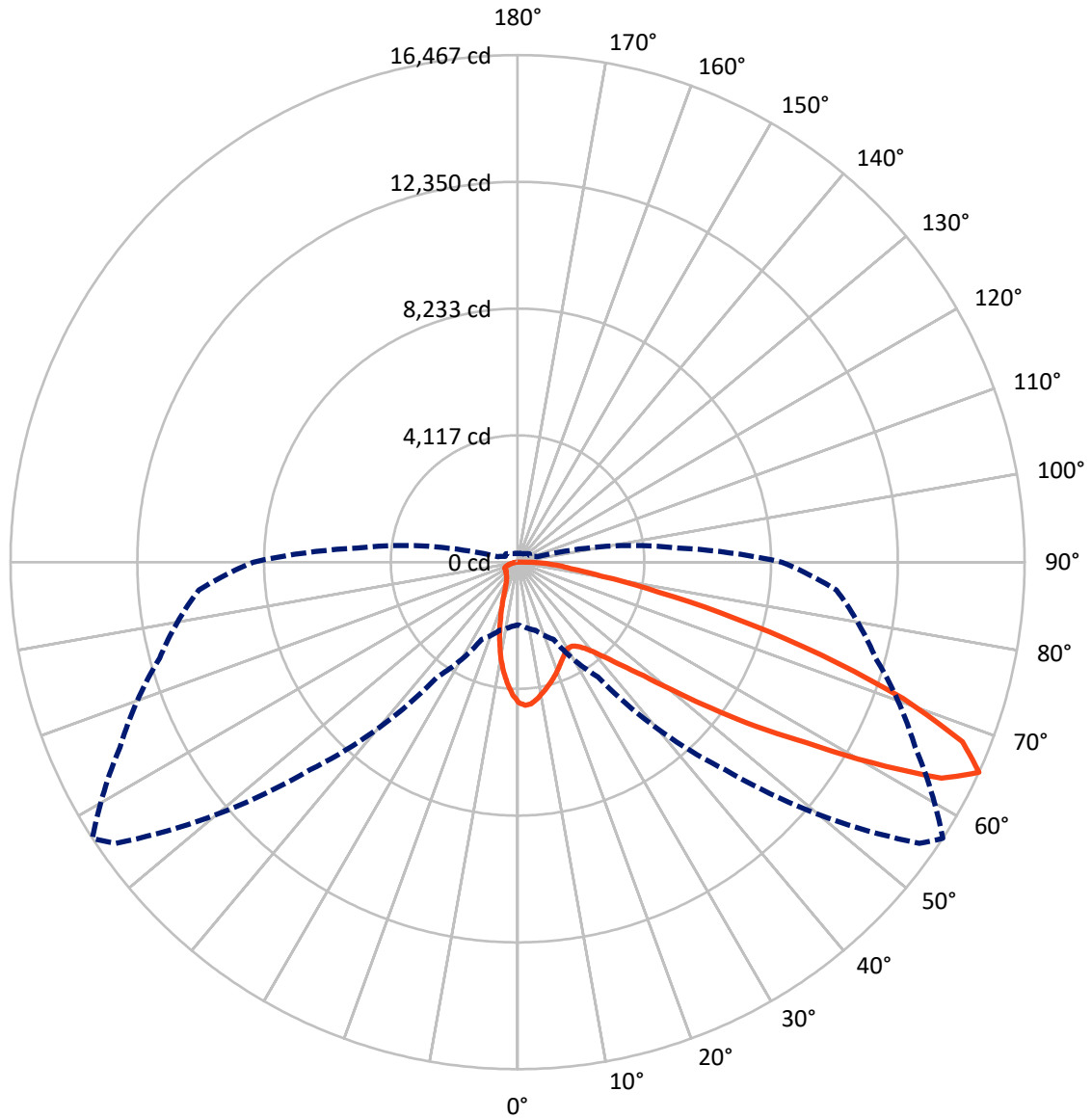
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	2544.7	0.0	2544.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	14048.4	0.0	14048.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	16593.2	0.0	16593.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.1	2.3
10°-20°	822.4	5.0
20°-30°	1063.2	6.4
30°-40°	1430.8	8.6
40°-50°	2281.4	13.7
50°-60°	4029.5	24.3
60°-70°	4433.0	26.7
70°-80°	1854.4	11.2
80°-90°	296.4	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°	16593.2	100.0
0°-180°	16593.2	100.0

Coefficient of Utilization



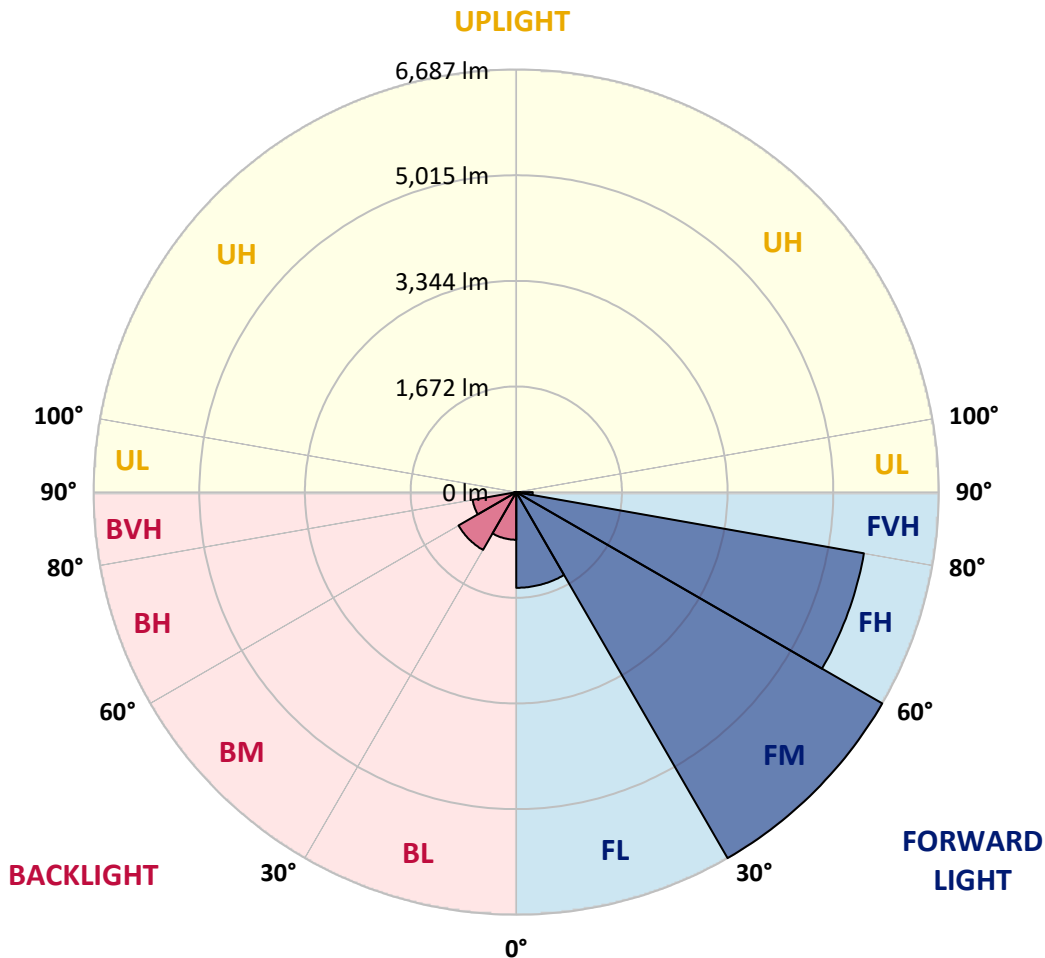
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1514.1	9.1			
FM (30°-60°)	6687.0	40.3			
FH (60°-80°)	5585.8	33.7			G3/7500
FVH (80°-90°)	261.6	1.6			G3/500
BL (0°-30°)	753.6	4.5	B2/1000		
BM (30°-60°)	1054.7	6.4	B2/2500		
BH (60°-80°)	701.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	34.8	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°	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9
2.5°	4686.1	4693.6	4693.6	4708.5	4658.1	4682.4	4678.6	4656.2	4663.7	4624.5	4585.3
5°	4553.5	4547.9	4577.8	4581.6	4620.8	4632.0	4641.3	4626.4	4630.1	4544.2	4506.9
7.5°	4213.8	4211.9	4262.3	4305.2	4387.4	4463.9	4514.3	4499.4	4519.9	4465.8	4378.1
10°	3810.5	3853.4	3905.7	3948.6	4099.9	4197.0	4327.6	4340.7	4419.1	4406.1	4247.4
12.5°	3508.0	3526.7	3565.9	3689.1	3827.3	3987.9	4174.6	4191.4	4267.9	4305.2	4167.1
15°	3259.7	3276.5	3326.9	3418.4	3573.4	3763.8	4000.9	4043.9	4197.0	4210.0	4062.5
17.5°	3078.6	3091.7	3125.3	3216.8	3343.8	3588.3	3812.4	3888.9	4090.5	4154.0	3954.3
20°	3007.7	2979.7	2998.4	3056.2	3183.2	3371.8	3661.1	3728.3	3986.0	4111.1	3851.6
22.5°	2976.0	2951.7	2962.9	2959.2	3060.0	3194.4	3498.7	3569.7	3887.0	4060.7	3760.1
25°	3000.2	3000.2	2989.0	2979.7	2990.9	3078.6	3323.2	3433.4	3754.5	4017.7	3666.7
27.5°	3130.9	3080.5	3086.1	3046.9	3035.7	3035.7	3244.8	3310.1	3711.5	3993.5	3590.2
30°	3214.9	3239.2	3241.1	3183.2	3125.3	3020.8	3172.0	3235.5	3676.1	4023.3	3545.4
32.5°	3429.6	3418.4	3386.7	3375.5	3289.6	3172.0	3207.5	3250.4	3655.5	4090.5	3558.5
35°	3644.3	3638.7	3640.6	3635.0	3545.4	3371.8	3302.7	3360.6	3692.9	4208.2	3603.3
37.5°	3866.5	3881.4	3944.9	3944.9	3849.7	3661.1	3569.7	3552.9	3829.2	4400.5	3709.7
40°	4088.7	4126.0	4206.3	4333.2	4198.8	4023.3	3875.8	3849.7	3993.5	4658.1	3965.5
42.5°	4301.5	4363.1	4521.8	4710.4	4665.6	4490.1	4294.0	4264.2	4331.4	5040.8	4322.0
45°	4574.1	4626.4	4876.5	5165.9	5227.5	5072.6	4842.9	4818.7	4814.9	5600.9	4813.1
47.5°	4988.6	5044.6	5294.7	5586.0	5776.4	5800.7	5543.0	5516.9	5427.3	6357.0	5531.8
50°	5507.6	5599.1	5810.0	6149.8	6426.1	6685.6	6612.8	6536.3	6360.8	7236.4	6442.9
52.5°	5886.6	5998.6	6284.2	6719.2	7206.5	7619.1	7880.5	7880.5	7477.2	8201.6	7538.8
55°	5987.4	6054.6	6414.9	7044.1	7878.6	8922.3	9469.3	9428.2	8806.5	9217.3	8814.0
57.5°	5586.0	5673.7	6110.6	6769.6	8231.5	10141.4	11046.9	11056.2	10259.0	10397.2	10072.3
60°	4480.7	4508.7	5024.0	5905.2	7891.7	11123.4	13201.4	13236.8	11911.3	11448.3	10712.7
62.5°	3097.3	3186.9	3575.3	4348.2	6538.1	11013.3	15279.3	15454.8	13235.0	12002.8	10813.5
65°	2038.7	2092.9	2300.1	2770.6	4551.7	9545.8	15925.3	16466.7	14246.9	12034.5	10391.6
67.5°	1478.6	1488.0	1549.6	1792.3	2735.1	6864.9	14821.9	15585.5	14625.9	11769.4	9402.1
70°	1194.9	1202.3	1224.7	1379.7	1766.2	4295.9	12088.7	13285.4	13488.9	10512.9	7572.4
72.5°	970.8	980.2	1008.2	1153.8	1456.2	2389.7	8840.1	10298.2	10972.2	7777.8	5033.4
75°	763.6	771.1	838.3	982.0	1368.5	1641.1	5864.2	7292.4	7383.9	4546.1	2356.1
77.5°	522.8	535.8	618.0	832.7	1288.2	1435.7	3655.5	4671.2	4191.4	1779.2	810.3
80°	332.3	351.0	399.5	631.0	1138.9	1370.4	2274.0	2789.3	1835.2	608.6	390.2
82.5°	196.0	214.7	263.2	408.9	894.3	1271.4	1601.9	1745.6	860.7	311.8	235.2
85°	108.3	121.4	158.7	246.4	524.6	1129.5	1282.6	1252.7	492.9	166.2	147.5
87.5°	35.5	41.1	57.9	98.9	216.6	532.1	769.2	722.5	255.8	76.5	57.9
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°	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9	4562.9
2.5°	4559.2	4553.5	4469.5	4406.1	4297.8	4208.2	4172.7	4124.1	4122.3	4086.8	4077.5
5°	4449.0	4391.1	4262.3	4139.1	3946.8	3818.0	3700.3	3618.2	3584.6	3511.8	3495.0
7.5°	4307.1	4230.6	4032.7	3801.2	3575.3	3373.6	3190.7	3007.7	2905.0	2869.5	2830.3
10°	4159.6	4025.2	3732.1	3472.6	3157.1	2847.1	2559.6	2302.0	2162.0	2063.0	2020.1
12.5°	4042.0	3862.8	3489.4	3101.0	2684.7	2270.2	1936.1	1665.3	1506.6	1432.0	1398.4
15°	3909.4	3672.3	3224.3	2733.2	2214.2	1743.8	1417.0	1204.2	1140.7	1105.2	1099.6
17.5°	3769.4	3495.0	2936.7	2371.1	1755.0	1312.5	1101.5	1015.6	987.6	972.7	965.2
20°	3638.7	3336.3	2641.8	1967.8	1374.1	1053.0	954.0	909.2	907.3	914.8	913.0
22.5°	3453.9	3129.0	2350.5	1594.4	1097.8	916.7	853.2	842.0	853.2	862.5	866.3
25°	3349.4	2959.2	2025.7	1265.8	907.3	814.0	793.5	789.7	806.5	817.7	815.9
27.5°	3241.1	2783.7	1723.2	1013.8	795.3	741.2	737.5	741.2	758.0	774.8	772.9
30°	3157.1	2643.6	1439.4	847.6	709.5	688.9	685.2	688.9	698.2	700.1	700.1
32.5°	3088.0	2477.5	1198.6	735.6	657.2	640.4	644.1	642.2	644.1	646.0	647.8
35°	3046.9	2378.5	1000.7	666.5	614.2	601.2	599.3	593.7	595.6	597.4	595.6
37.5°	3134.6	2330.0	843.9	618.0	584.4	573.2	569.4	565.7	560.1	560.1	560.1
40°	3267.2	2303.8	748.7	586.2	562.0	548.9	537.7	534.0	534.0	535.8	537.7
42.5°	3530.4	2346.8	683.3	562.0	534.0	519.0	507.8	509.7	515.3	520.9	517.2
45°	3911.3	2477.5	653.4	543.3	517.2	496.6	489.1	487.3	492.9	502.2	509.7
47.5°	4409.8	2681.0	642.2	526.5	505.9	477.9	468.6	474.2	481.7	494.7	489.1
50°	5225.7	3138.4	651.6	511.6	489.1	468.6	457.4	451.8	457.4	466.7	470.5
52.5°	6291.7	3969.2	687.0	504.1	477.9	461.1	442.5	433.1	438.7	446.2	446.2
55°	7566.8	5104.3	786.0	494.7	459.3	449.9	429.4	410.7	414.5	414.5	412.6
57.5°	8690.8	5961.2	903.6	481.7	448.1	435.0	408.9	386.5	382.7	384.6	386.5
60°	9194.8	6189.0	959.6	477.9	448.1	416.3	380.9	358.5	352.9	349.1	349.1
62.5°	9107.1	5795.1	845.7	461.1	459.3	401.4	354.7	330.5	323.0	315.5	317.4
65°	8576.9	5233.1	666.5	438.7	461.1	392.1	328.6	304.3	291.2	281.9	280.0
67.5°	7607.9	4467.7	528.4	421.9	442.5	375.3	306.2	278.2	267.0	257.6	253.9
70°	5951.9	3502.4	459.3	399.5	397.7	334.2	280.0	255.8	239.0	227.8	227.8
72.5°	3859.0	2214.2	393.9	354.7	343.5	280.0	242.7	227.8	214.7	205.4	205.4
75°	1747.5	1028.7	317.4	296.8	280.0	224.0	205.4	197.9	186.7	177.4	177.4
77.5°	627.3	438.7	237.1	233.4	209.1	173.6	166.2	160.6	153.1	143.8	143.8
80°	351.0	278.2	177.4	169.9	145.6	128.8	119.5	119.5	115.8	110.2	108.3
82.5°	222.2	181.1	130.7	113.9	95.2	85.9	82.1	80.3	78.4	70.9	69.1
85°	140.0	123.2	85.9	67.2	56.0	42.9	41.1	39.2	35.5	31.7	31.7
87.5°	63.5	70.9	33.6	20.5	14.9	9.3	5.6	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)