

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: P480477

Luminaire Tested: **IFLD-M-SA4A-735-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480477
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

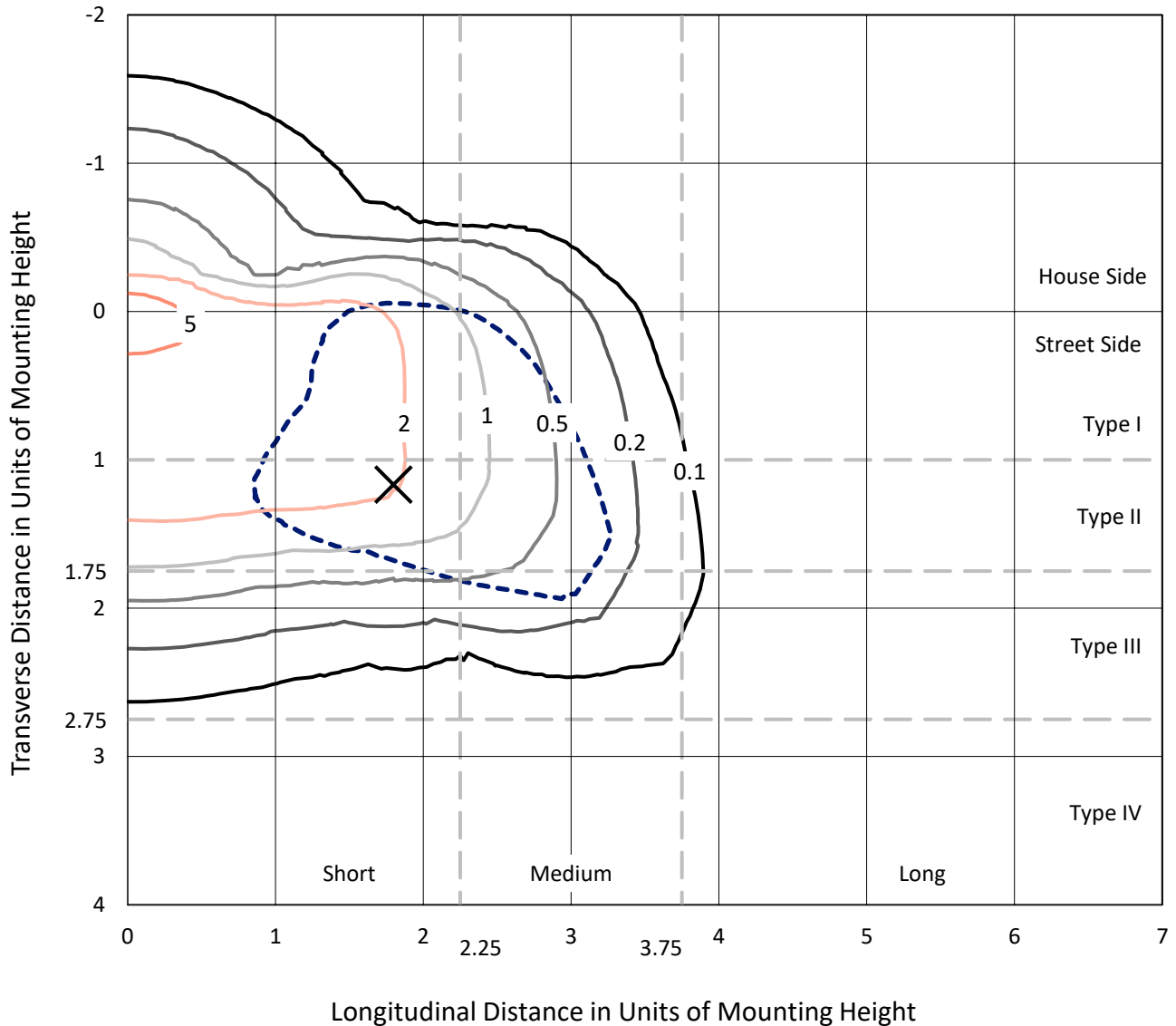
Lumens per Lamp: N/A
Luminaire Lumens: 17972.6 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

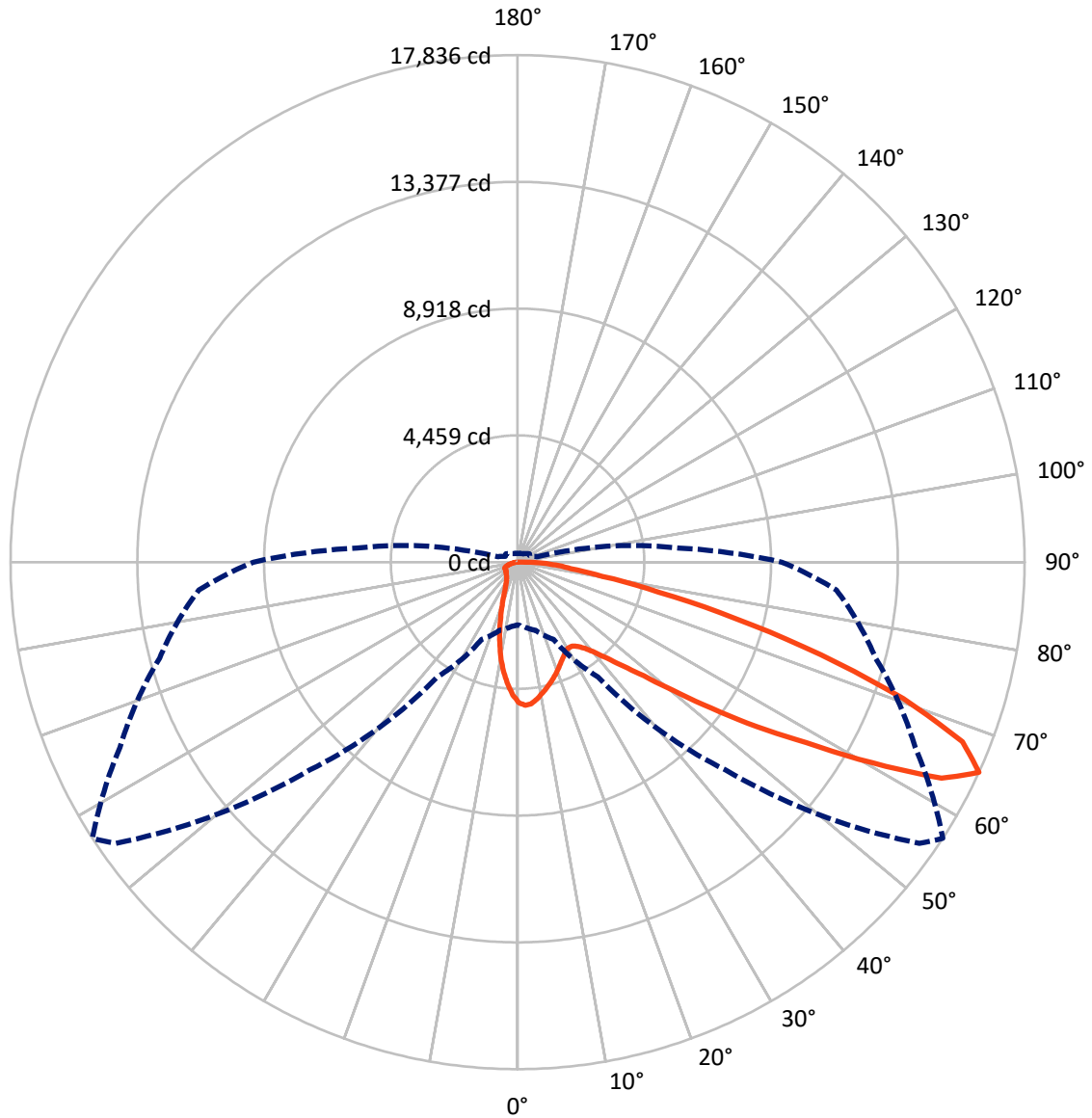
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	2756.3	0.0	2756.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	15216.3	0.0	15216.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	17972.6	0.0	17972.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.9	2.3
10°-20°	890.7	5.0
20°-30°	1151.6	6.4
30°-40°	1549.7	8.6
40°-50°	2471.1	13.7
50°-60°	4364.5	24.3
60°-70°	4801.5	26.7
70°-80°	2008.6	11.2
80°-90°	321.0	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°	17972.6	100.0
0°-180°	17972.6	100.0

Coefficient of Utilization



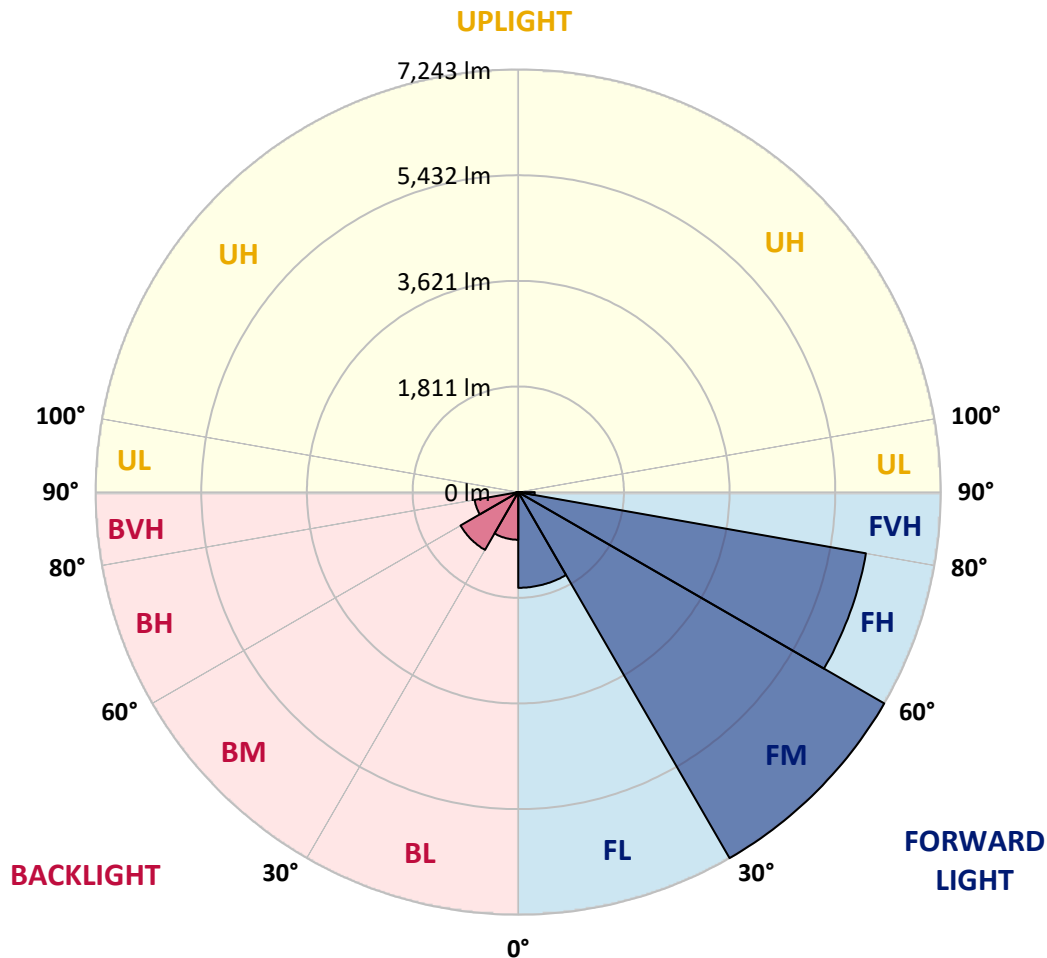
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1639.9	9.1			
FM (30°-60°)	7242.9	40.3			
FH (60°-80°)	6050.1	33.7			G3/7500
FVH (80°-90°)	283.3	1.6			G3/500
BL (0°-30°)	816.3	4.5	B2/1000		
BM (30°-60°)	1142.3	6.4	B2/2500		
BH (60°-80°)	760.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	37.7	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°	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2
2.5°	5075.7	5083.8	5083.8	5099.9	5045.3	5071.6	5067.6	5043.3	5051.4	5008.9	4966.5
5°	4932.1	4926.0	4958.4	4962.4	5004.9	5017.0	5027.1	5011.0	5015.0	4922.0	4881.5
7.5°	4564.1	4562.0	4616.6	4663.1	4752.1	4835.0	4889.6	4873.5	4895.7	4837.1	4742.0
10°	4127.3	4173.8	4230.4	4276.9	4440.7	4545.9	4687.4	4701.6	4786.5	4772.3	4600.5
12.5°	3799.7	3819.9	3862.4	3995.8	4145.5	4319.4	4521.6	4539.8	4622.7	4663.1	4513.5
15°	3530.7	3548.9	3603.5	3702.6	3870.5	4076.7	4333.5	4380.0	4545.9	4560.0	4400.3
17.5°	3334.6	3348.7	3385.1	3484.2	3621.7	3886.6	4129.3	4212.2	4430.6	4499.3	4283.0
20°	3257.7	3227.4	3247.6	3310.3	3447.8	3652.1	3965.5	4038.3	4317.4	4452.8	4171.8
22.5°	3223.4	3197.1	3209.2	3205.2	3314.4	3459.9	3789.6	3866.4	4210.2	4398.2	4072.7
25°	3249.6	3249.6	3237.5	3227.4	3239.5	3334.6	3599.5	3718.8	4066.6	4351.7	3971.6
27.5°	3391.2	3336.6	3342.7	3300.2	3288.1	3288.1	3514.5	3585.3	4020.1	4325.4	3888.7
30°	3482.2	3508.5	3510.5	3447.8	3385.1	3271.9	3435.7	3504.4	3981.7	4357.8	3840.1
32.5°	3714.7	3702.6	3668.2	3656.1	3563.1	3435.7	3474.1	3520.6	3959.4	4430.6	3854.3
35°	3947.3	3941.2	3943.2	3937.2	3840.1	3652.1	3577.2	3639.9	3999.9	4558.0	3902.8
37.5°	4187.9	4204.1	4272.9	4272.9	4169.7	3965.5	3866.4	3848.2	4147.5	4766.3	4018.1
40°	4428.6	4469.0	4556.0	4693.5	4547.9	4357.8	4198.0	4169.7	4325.4	5045.3	4295.1
42.5°	4659.1	4725.8	4897.7	5102.0	5053.4	4863.3	4651.0	4618.7	4691.5	5459.9	4681.3
45°	4954.3	5011.0	5281.9	5595.4	5662.1	5494.3	5245.5	5219.2	5215.2	6066.5	5213.2
47.5°	5403.3	5463.9	5734.9	6050.4	6256.6	6282.9	6003.9	5975.5	5878.5	6885.5	5991.7
50°	5965.4	6064.5	6293.0	6661.1	6960.3	7241.4	7162.6	7079.6	6889.6	7838.0	6978.5
52.5°	6375.9	6497.3	6806.7	7277.8	7805.6	8252.5	8535.6	8535.6	8098.8	8883.4	8165.6
55°	6485.1	6557.9	6948.2	7629.7	8533.6	9664.0	10256.5	10212.0	9538.6	9983.5	9546.7
57.5°	6050.4	6145.4	6618.6	7332.4	8915.8	10984.5	11965.2	11975.3	11111.9	11261.5	10909.7
60°	4853.2	4883.6	5441.7	6396.2	8547.8	12048.1	14298.8	14337.3	12901.5	12400.0	11603.3
62.5°	3354.8	3451.9	3872.5	4709.7	7081.7	11928.8	16549.5	16739.6	14335.2	13000.6	11712.5
65°	2208.2	2266.9	2491.3	3000.9	4930.1	10339.4	17249.2	17835.6	15431.2	13035.0	11255.4
67.5°	1601.6	1611.7	1678.4	1941.3	2962.5	7435.6	16054.1	16881.2	15841.8	12747.8	10183.7
70°	1294.2	1302.3	1326.5	1494.4	1913.0	4653.0	13093.6	14389.8	14610.2	11386.9	8202.0
72.5°	1051.5	1061.6	1092.0	1249.7	1577.3	2588.4	9575.0	11154.3	11884.3	8424.4	5451.8
75°	827.1	835.2	908.0	1063.7	1482.3	1777.5	6351.7	7898.6	7997.7	4924.0	2552.0
77.5°	566.2	580.4	669.3	901.9	1395.3	1555.1	3959.4	5059.5	4539.8	1927.1	877.6
80°	359.9	380.2	432.7	683.5	1233.5	1484.3	2463.0	3021.1	1987.8	659.2	422.6
82.5°	212.3	232.6	285.1	442.9	968.6	1377.1	1735.0	1890.7	932.2	337.7	254.8
85°	117.3	131.4	171.9	266.9	568.2	1223.4	1389.2	1356.9	533.9	180.0	159.8
87.5°	38.4	44.5	62.7	107.2	234.6	576.3	833.1	782.6	277.0	82.9	62.7
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°	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2	4942.2
2.5°	4938.2	4932.1	4841.1	4772.3	4655.1	4558.0	4519.6	4467.0	4465.0	4426.6	4416.4
5°	4818.9	4756.2	4616.6	4483.2	4274.9	4135.4	4008.0	3919.0	3882.6	3803.7	3785.5
7.5°	4665.2	4582.3	4367.9	4117.2	3872.5	3654.1	3455.9	3257.7	3146.5	3108.1	3065.6
10°	4505.4	4359.8	4042.3	3761.3	3419.5	3083.8	2772.4	2493.3	2341.7	2234.5	2188.0
12.5°	4378.0	4183.9	3779.5	3358.8	2907.9	2459.0	2097.0	1803.8	1631.9	1551.0	1514.6
15°	4234.4	3977.6	3492.3	2960.5	2398.3	1888.7	1534.8	1304.3	1235.6	1197.1	1191.1
17.5°	4082.8	3785.5	3180.9	2568.2	1900.8	1421.6	1193.1	1100.1	1069.7	1053.6	1045.5
20°	3941.2	3613.6	2861.4	2131.4	1488.3	1140.5	1033.3	984.8	982.8	990.9	988.8
22.5°	3741.0	3389.2	2545.9	1726.9	1189.0	992.9	924.1	912.0	924.1	934.2	938.3
25°	3627.8	3205.2	2194.1	1371.0	982.8	881.7	859.4	855.4	873.6	885.7	883.7
27.5°	3510.5	3015.1	1866.5	1098.0	861.4	802.8	798.8	802.8	821.0	839.2	837.2
30°	3419.5	2863.4	1559.1	918.1	768.4	746.2	742.1	746.2	756.3	758.3	758.3
32.5°	3344.7	2683.4	1298.2	796.7	711.8	693.6	697.7	695.6	697.7	699.7	701.7
35°	3300.2	2576.3	1083.9	721.9	665.3	651.1	649.1	643.1	645.1	647.1	645.1
37.5°	3395.2	2523.7	914.0	669.3	632.9	620.8	616.8	612.7	606.7	606.7	606.7
40°	3538.8	2495.4	810.9	635.0	608.7	594.5	582.4	578.3	578.3	580.4	582.4
42.5°	3823.9	2541.9	740.1	608.7	578.3	562.2	550.0	552.1	558.1	564.2	560.1
45°	4236.5	2683.4	707.8	588.5	560.1	537.9	529.8	527.8	533.9	544.0	552.1
47.5°	4776.4	2903.8	695.6	570.3	548.0	517.7	507.6	513.6	521.7	535.9	529.8
50°	5660.1	3399.3	705.7	554.1	529.8	507.6	495.4	489.4	495.4	505.5	509.6
52.5°	6814.7	4299.2	744.2	546.0	517.7	499.5	479.3	469.1	475.2	483.3	483.3
55°	8195.9	5528.6	851.3	535.9	497.5	487.3	465.1	444.9	448.9	448.9	446.9
57.5°	9413.2	6456.8	978.7	521.7	485.3	471.2	442.9	418.6	414.5	416.6	418.6
60°	9959.2	6703.5	1039.4	517.7	485.3	450.9	412.5	388.3	382.2	378.1	378.1
62.5°	9864.2	6276.8	916.0	499.5	497.5	434.8	384.2	357.9	349.8	341.7	343.8
65°	9289.9	5668.2	721.9	475.2	499.5	424.7	355.9	329.6	315.5	305.3	303.3
67.5°	8240.4	4839.1	572.3	457.0	479.3	406.5	331.6	301.3	289.2	279.1	275.0
70°	6446.7	3793.6	497.5	432.7	430.7	362.0	303.3	277.0	258.8	246.7	246.7
72.5°	4179.8	2398.3	426.7	384.2	372.1	303.3	262.9	246.7	232.6	222.4	222.4
75°	1892.8	1114.2	343.8	321.5	303.3	242.7	222.4	214.4	202.2	192.1	192.1
77.5°	679.5	475.2	256.8	252.8	226.5	188.1	180.0	173.9	165.8	155.7	155.7
80°	380.2	301.3	192.1	184.0	157.7	139.5	129.4	129.4	125.4	119.3	117.3
82.5°	240.6	196.2	141.6	123.4	103.1	93.0	89.0	87.0	84.9	76.8	74.8
85°	151.7	133.5	93.0	72.8	60.7	46.5	44.5	42.5	38.4	34.4	34.4
87.5°	68.8	76.8	36.4	22.2	16.2	10.1	6.1	2.0	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)