

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: P480360

Luminaire Tested: **IFLD-M-SA4A-722-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480360
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

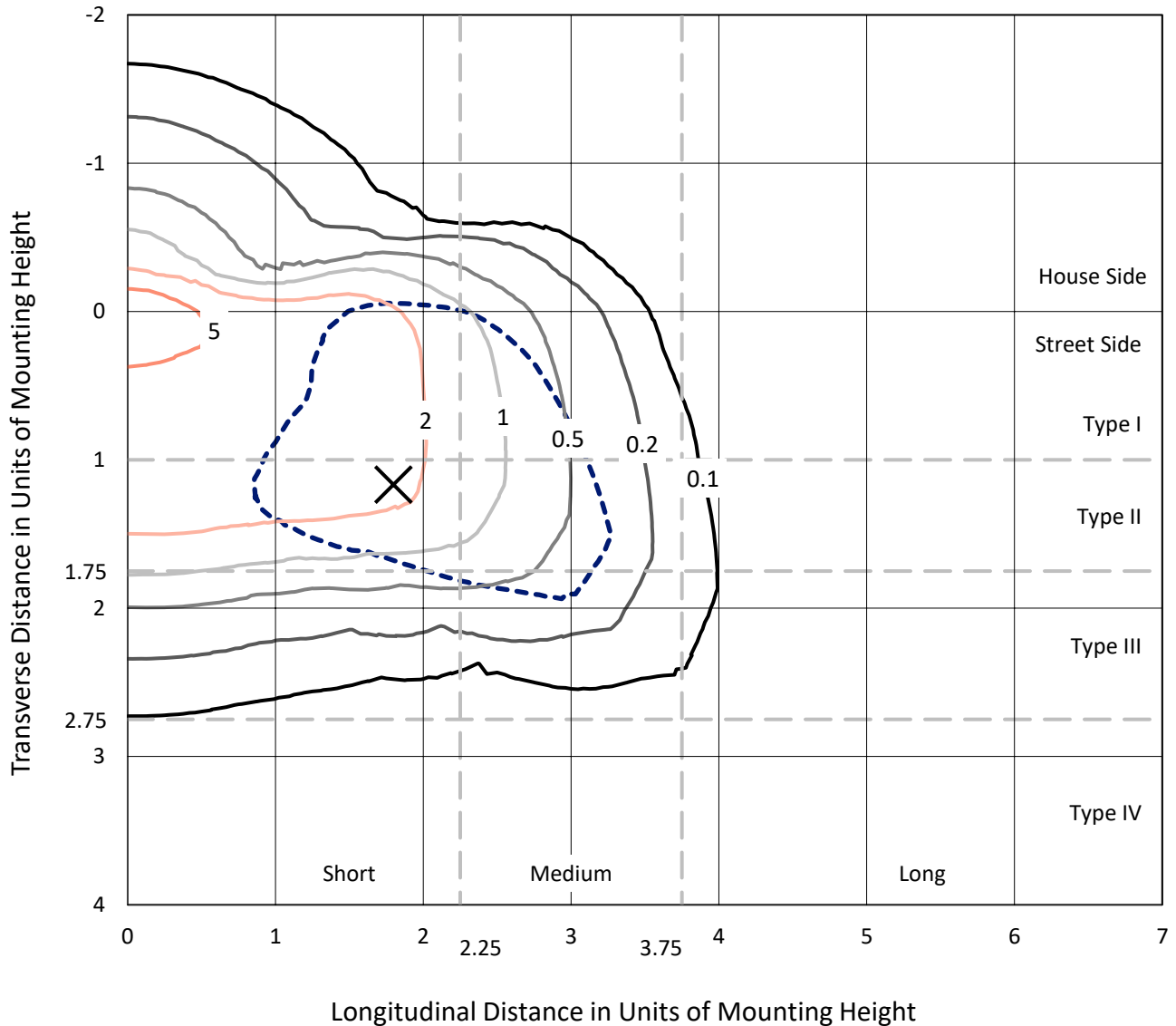
Lumens per Lamp: N/A
Luminaire Lumens: 13422.5 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

REPORT NUMBER: P480360
 CATALOG NUMBER: IFLD-M-SA4A-722-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

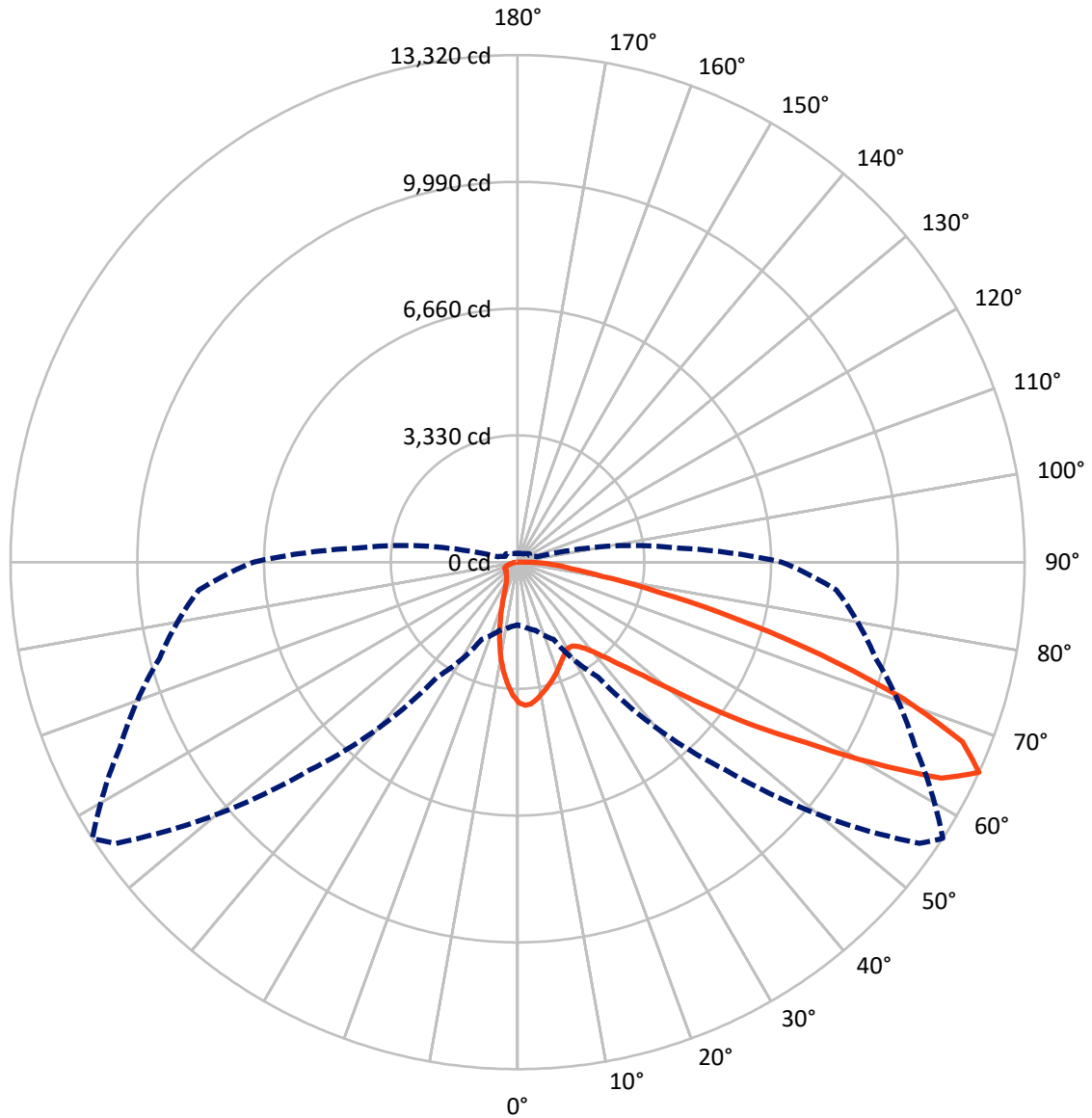
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

REPORT NUMBER: P480360
CATALOG NUMBER: IFLD-M-SA4A-722-U-SL3

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	2058.5	0.0	2058.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11364.0	0.0	11364.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	13422.5	0.0	13422.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	2.3
10°-20°	665.2	5.0
20°-30°	860.1	6.4
30°-40°	1157.4	8.6
40°-50°	1845.5	13.7
50°-60°	3259.6	24.3
60°-70°	3585.9	26.7
70°-80°	1500.1	11.2
80°-90°	239.7	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°	13422.5	100.0
0°-180°	13422.5	100.0

Coefficient of Utilization



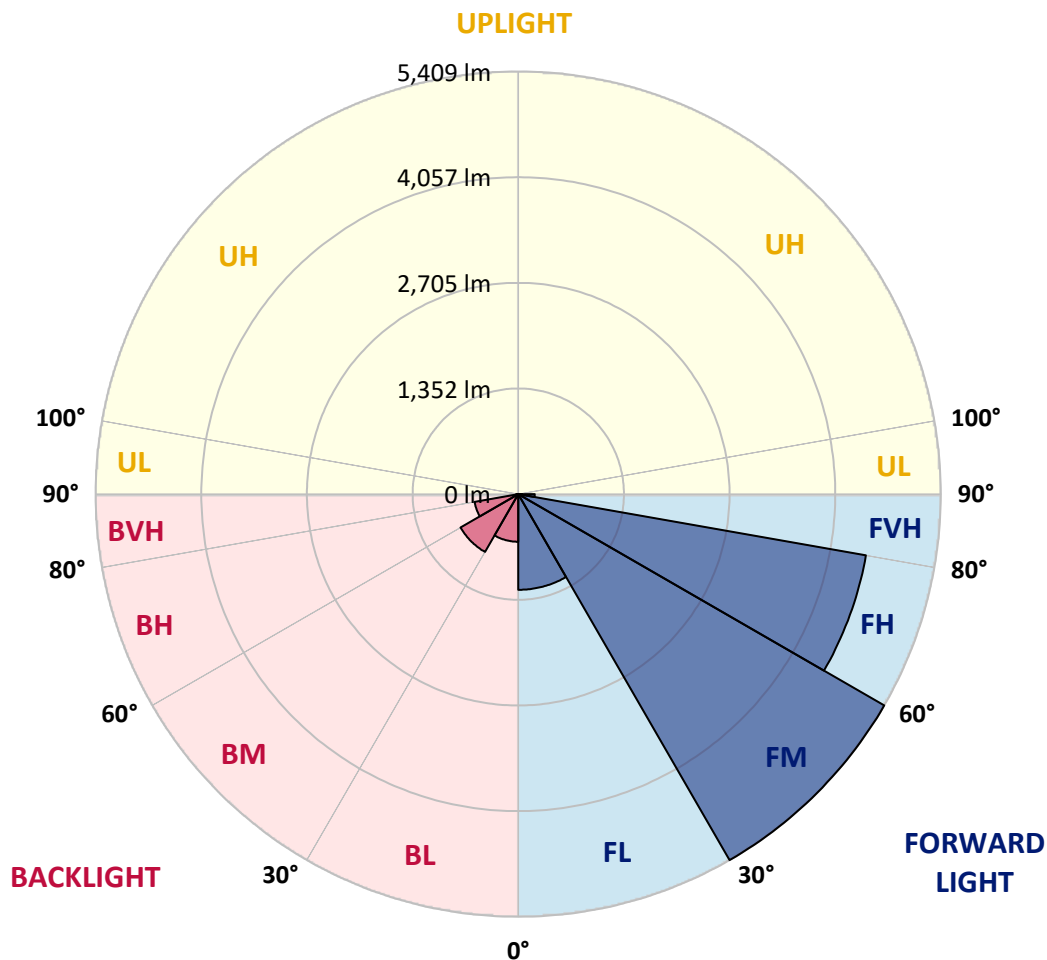
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.8	9.1			
FM (30°-60°)	5409.2	40.3			
FH (60°-80°)	4518.4	33.7			G2/5000
FVH (80°-90°)	211.6	1.6			G2/225
BL (0°-30°)	609.6	4.5	B2/1000		
BM (30°-60°)	853.1	6.4	B1/1000		
BH (60°-80°)	567.6	4.2	B2/1000		G2/1000
BVH (80°-90°)	28.1	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-G2

Type III Short





REPORT NUMBER: P480360

CATALOG NUMBER: IFLD-M-SA4A-722-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0
2.5°	3790.7	3796.7	3796.7	3808.8	3768.0	3787.7	3784.6	3766.5	3772.5	3740.8	3709.1
5°	3683.4	3678.9	3703.1	3706.1	3737.8	3746.9	3754.4	3742.3	3745.4	3675.9	3645.7
7.5°	3408.6	3407.1	3447.8	3482.6	3549.0	3611.0	3651.7	3639.6	3656.3	3612.5	3541.5
10°	3082.4	3117.1	3159.4	3194.1	3316.5	3395.0	3500.7	3511.3	3574.7	3564.1	3435.8
12.5°	2837.7	2852.8	2884.5	2984.2	3096.0	3225.8	3376.9	3390.5	3452.4	3482.6	3370.8
15°	2636.9	2650.4	2691.2	2765.2	2890.6	3044.6	3236.4	3271.2	3395.0	3405.6	3286.3
17.5°	2490.4	2500.9	2528.1	2602.1	2704.8	2902.7	3083.9	3145.8	3308.9	3360.3	3198.7
20°	2433.0	2410.3	2425.4	2472.2	2574.9	2727.5	2961.6	3015.9	3224.3	3325.5	3115.6
22.5°	2407.3	2387.7	2396.7	2393.7	2475.3	2584.0	2830.2	2887.6	3144.3	3284.7	3041.6
25°	2426.9	2426.9	2417.9	2410.3	2419.4	2490.4	2688.2	2777.3	3037.1	3250.0	2966.1
27.5°	2532.7	2491.9	2496.4	2464.7	2455.6	2455.6	2624.8	2677.6	3002.3	3230.4	2904.2
30°	2600.6	2620.2	2621.8	2574.9	2528.1	2443.5	2565.9	2617.2	2973.6	3254.5	2867.9
32.5°	2774.3	2765.2	2739.6	2730.5	2661.0	2565.9	2594.6	2629.3	2957.0	3308.9	2878.5
35°	2948.0	2943.4	2944.9	2940.4	2867.9	2727.5	2671.6	2718.4	2987.2	3404.1	2914.7
37.5°	3127.7	3139.8	3191.1	3191.1	3114.1	2961.6	2887.6	2874.0	3097.5	3559.6	3000.8
40°	3307.4	3337.6	3402.5	3505.2	3396.5	3254.5	3135.2	3114.1	3230.4	3768.0	3207.7
42.5°	3479.6	3529.4	3657.8	3810.3	3774.1	3632.1	3473.5	3449.4	3503.7	4077.6	3496.2
45°	3700.1	3742.3	3944.7	4178.8	4228.6	4103.3	3917.5	3897.9	3894.9	4530.7	3893.4
47.5°	4035.3	4080.6	4283.0	4518.6	4672.6	4692.3	4483.9	4462.7	4390.2	5142.3	4474.8
50°	4455.2	4529.2	4699.8	4974.7	5198.2	5408.1	5349.2	5287.3	5145.3	5853.6	5211.8
52.5°	4761.7	4852.4	5083.4	5435.3	5829.5	6163.2	6374.7	6374.7	6048.5	6634.4	6098.3
55°	4843.3	4897.7	5189.1	5698.1	6373.2	7217.4	7659.9	7626.6	7123.7	7456.0	7129.8
57.5°	4518.6	4589.6	4943.0	5476.1	6658.6	8203.6	8936.0	8943.6	8298.7	8410.5	8147.7
60°	3624.5	3647.2	4064.0	4776.8	6383.7	8997.9	10678.8	10707.5	9635.3	9260.7	8665.7
62.5°	2505.5	2578.0	2892.1	3517.3	5288.8	8908.8	12359.7	12501.7	10706.0	9709.3	8747.2
65°	1649.2	1693.0	1860.6	2241.2	3681.9	7721.8	12882.2	13320.2	11524.5	9734.9	8405.9
67.5°	1196.1	1203.7	1253.5	1449.8	2212.5	5553.1	11989.7	12607.4	11831.1	9520.5	7605.5
70°	966.5	972.6	990.7	1116.1	1428.7	3475.0	9778.7	10746.8	10911.4	8504.1	6125.5
72.5°	785.3	792.9	815.5	933.3	1178.0	1933.1	7150.9	8330.4	8875.6	6291.6	4071.6
75°	617.7	623.7	678.1	794.4	1107.0	1327.5	4743.6	5898.9	5972.9	3677.4	1905.9
77.5°	422.9	433.4	499.9	673.6	1042.1	1161.4	2957.0	3778.6	3390.5	1439.2	655.4
80°	268.8	283.9	323.2	510.5	921.2	1108.5	1839.5	2256.3	1484.6	492.3	315.6
82.5°	158.6	173.7	212.9	330.7	723.4	1028.5	1295.8	1412.1	696.2	252.2	190.3
85°	87.6	98.2	128.4	199.4	424.4	913.7	1037.5	1013.4	398.7	134.4	119.3
87.5°	28.7	33.2	46.8	80.0	175.2	430.4	622.2	584.5	206.9	61.9	46.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480360
 CATALOG NUMBER: IFLD-M-SA4A-722-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0	3691.0
2.5°	3688.0	3683.4	3615.5	3564.1	3476.5	3404.1	3375.4	3336.1	3334.6	3305.9	3298.3
5°	3598.9	3552.1	3447.8	3348.2	3192.6	3088.4	2993.3	2926.8	2899.6	2840.7	2827.1
7.5°	3484.1	3422.2	3262.1	3074.8	2892.1	2729.0	2581.0	2433.0	2349.9	2321.2	2289.5
10°	3364.8	3256.1	3018.9	2809.0	2553.8	2303.1	2070.5	1862.1	1748.8	1668.8	1634.1
12.5°	3269.6	3124.7	2822.6	2508.5	2171.7	1836.4	1566.1	1347.1	1218.8	1158.3	1131.2
15°	3162.4	2970.6	2608.2	2211.0	1791.1	1410.6	1146.3	974.1	922.7	894.1	889.5
17.5°	3049.1	2827.1	2375.6	1918.0	1419.6	1061.7	891.0	821.6	798.9	786.8	780.8
20°	2943.4	2698.8	2137.0	1591.8	1111.5	851.8	771.7	735.5	734.0	740.0	738.5
22.5°	2793.9	2531.1	1901.4	1289.7	888.0	741.5	690.2	681.1	690.2	697.7	700.7
25°	2709.3	2393.7	1638.6	1023.9	734.0	658.5	641.8	638.8	652.4	661.5	660.0
27.5°	2621.8	2251.7	1393.9	820.1	643.4	599.6	596.5	599.6	613.2	626.7	625.2
30°	2553.8	2138.5	1164.4	685.6	573.9	557.3	554.3	557.3	564.8	566.3	566.3
32.5°	2497.9	2004.1	969.6	595.0	531.6	518.0	521.0	519.5	521.0	522.5	524.0
35°	2464.7	1924.0	809.5	539.2	496.9	486.3	484.8	480.3	481.8	483.3	481.8
37.5°	2535.7	1884.8	682.6	499.9	472.7	463.6	460.6	457.6	453.1	453.1	453.1
40°	2642.9	1863.6	605.6	474.2	454.6	444.0	434.9	431.9	431.9	433.4	434.9
42.5°	2855.8	1898.4	552.7	454.6	431.9	419.8	410.8	412.3	416.8	421.4	418.3
45°	3163.9	2004.1	528.6	439.5	418.3	401.7	395.7	394.2	398.7	406.3	412.3
47.5°	3567.2	2168.7	519.5	425.9	409.3	386.6	379.1	383.6	389.6	400.2	395.7
50°	4227.1	2538.7	527.1	413.8	395.7	379.1	370.0	365.5	370.0	377.6	380.6
52.5°	5089.5	3210.7	555.8	407.8	386.6	373.0	357.9	350.4	354.9	360.9	360.9
55°	6121.0	4129.0	635.8	400.2	371.5	364.0	347.4	332.3	335.3	335.3	333.8
57.5°	7030.1	4822.2	731.0	389.6	362.5	351.9	330.7	312.6	309.6	311.1	312.6
60°	7437.9	5006.4	776.3	386.6	362.5	336.8	308.1	290.0	285.4	282.4	282.4
62.5°	7366.9	4687.7	684.1	373.0	371.5	324.7	286.9	267.3	261.3	255.2	256.7
65°	6938.0	4233.2	539.2	354.9	373.0	317.1	265.8	246.2	235.6	228.0	226.5
67.5°	6154.2	3614.0	427.4	341.3	357.9	303.6	247.7	225.0	216.0	208.4	205.4
70°	4814.6	2833.2	371.5	323.2	321.7	270.3	226.5	206.9	193.3	184.2	184.2
72.5°	3121.6	1791.1	318.7	286.9	277.9	226.5	196.3	184.2	173.7	166.1	166.1
75°	1413.6	832.1	256.7	240.1	226.5	181.2	166.1	160.1	151.0	143.5	143.5
77.5°	507.4	354.9	191.8	188.8	169.1	140.5	134.4	129.9	123.8	116.3	116.3
80°	283.9	225.0	143.5	137.4	117.8	104.2	96.7	96.7	93.6	89.1	87.6
82.5°	179.7	146.5	105.7	92.1	77.0	69.5	66.5	64.9	63.4	57.4	55.9
85°	113.3	99.7	69.5	54.4	45.3	34.7	33.2	31.7	28.7	25.7	25.7
87.5°	51.3	57.4	27.2	16.6	12.1	7.6	4.5	1.5	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)