

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: P480456

Luminaire Tested: **IFLD-S-SA2E-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480456
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

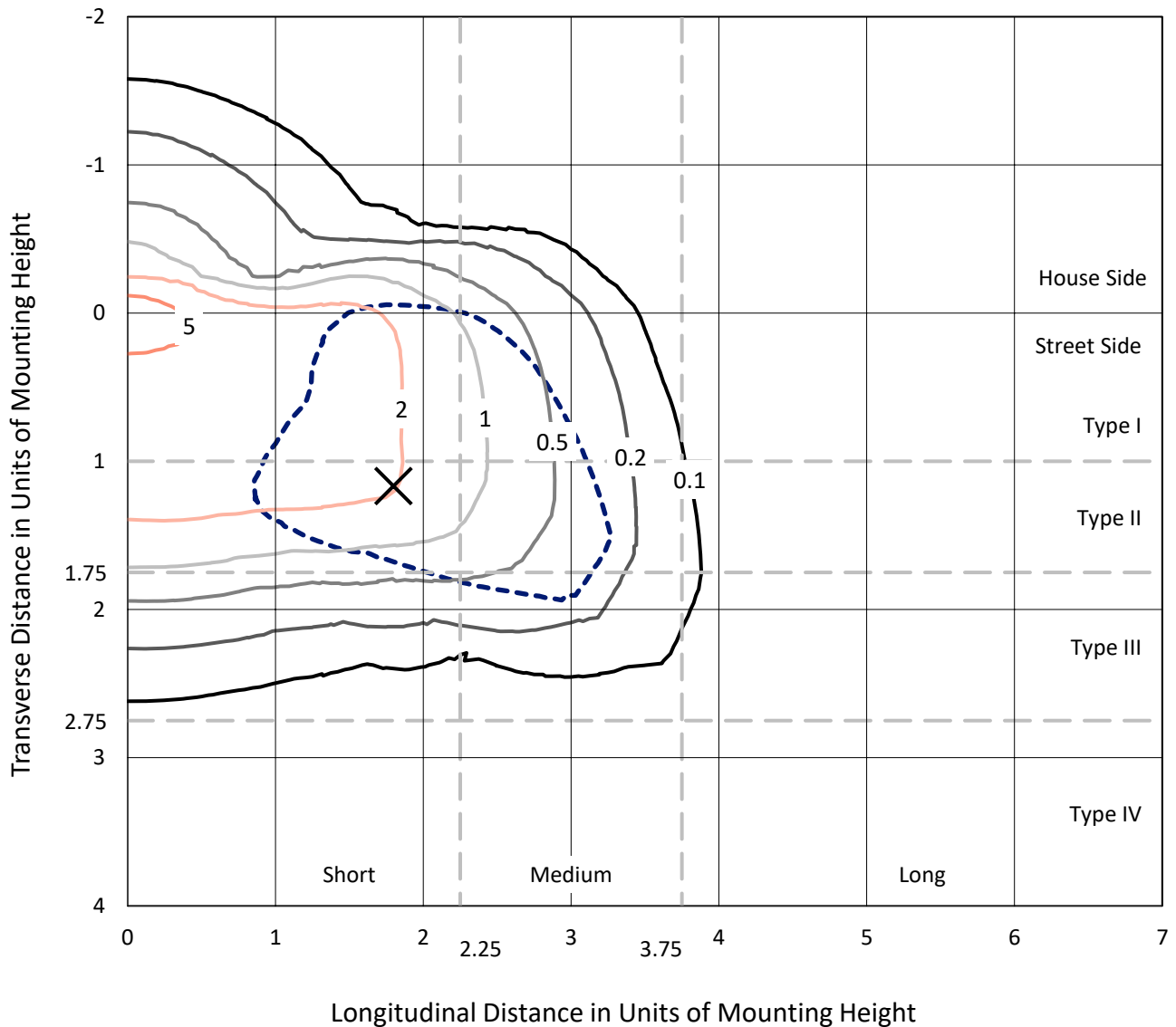
Lumens per Lamp: N/A
Luminaire Lumens: 17614.4 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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: P480456
 CATALOG NUMBER: IFLD-S-SA2E-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

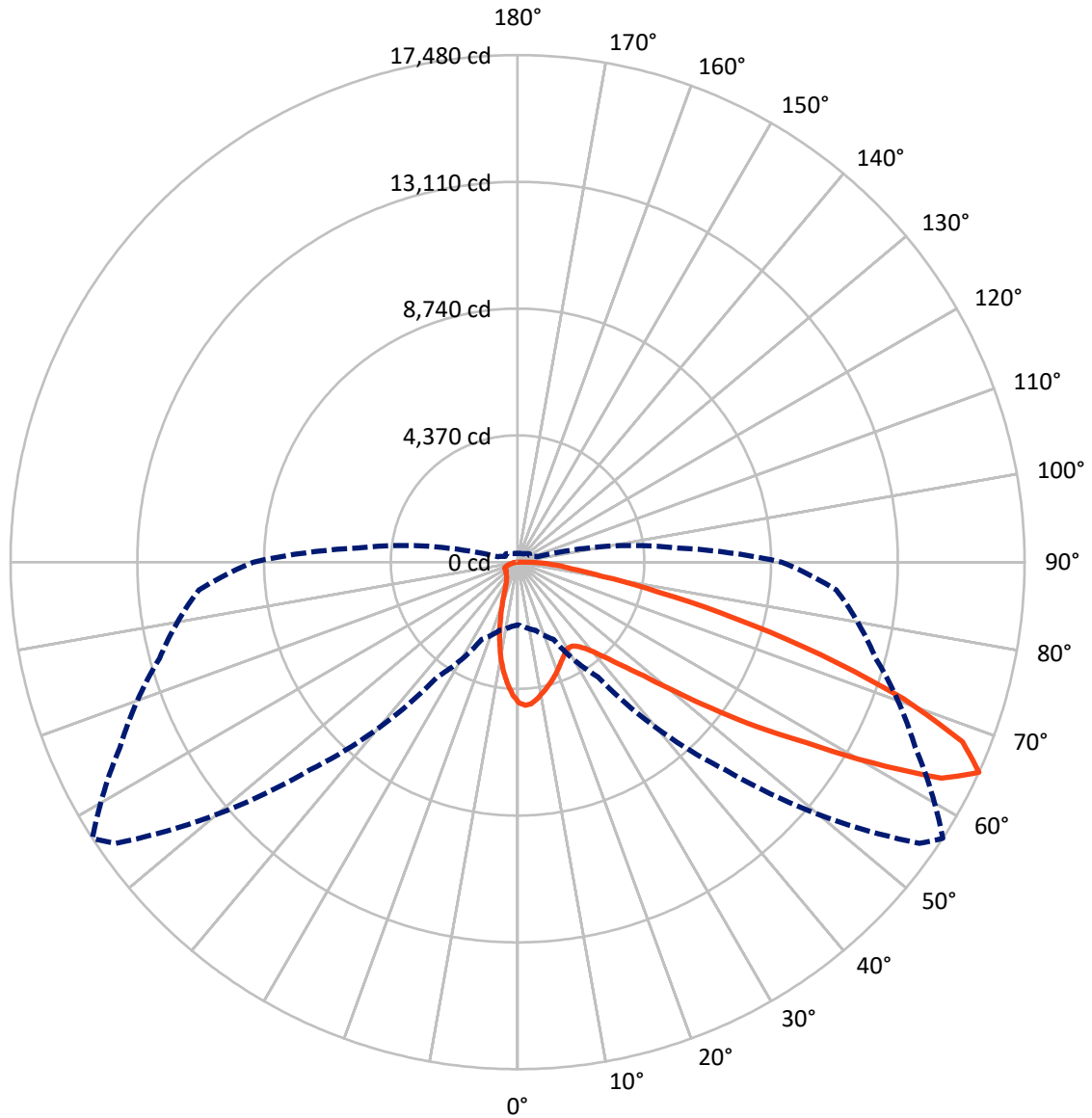
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

REPORT NUMBER: P480456
CATALOG NUMBER: IFLD-S-SA2E-735-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	2701.3	0.0	2701.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	14913.1	0.0	14913.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	17614.4	0.0	17614.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.6	2.3
10°-20°	873.0	5.0
20°-30°	1128.7	6.4
30°-40°	1518.8	8.6
40°-50°	2421.8	13.7
50°-60°	4277.5	24.3
60°-70°	4705.9	26.7
70°-80°	1968.5	11.2
80°-90°	314.6	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°	17614.4	100.0
0°-180°	17614.4	100.0

Coefficient of Utilization



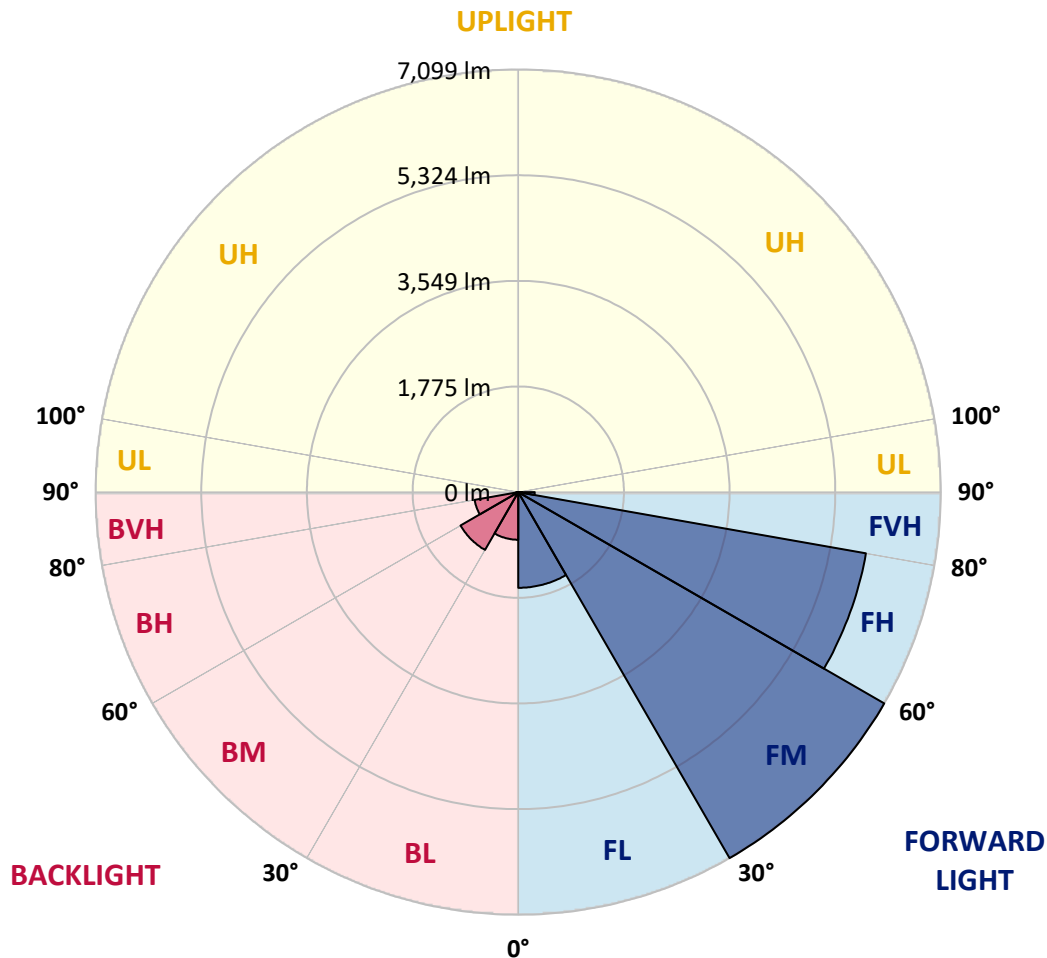
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.3	9.1			
FM (30°-60°)	7098.6	40.3			
FH (60°-80°)	5929.5	33.7			G3/7500
FVH (80°-90°)	277.7	1.6			G3/500
BL (0°-30°)	800.0	4.5	B2/1000		
BM (30°-60°)	1119.6	6.4	B2/2500		
BH (60°-80°)	744.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	36.9	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





REPORT NUMBER: P480456

CATALOG NUMBER: IFLD-S-SA2E-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7
2.5°	4974.5	4982.5	4982.5	4998.3	4944.8	4970.6	4966.6	4942.8	4950.7	4909.1	4867.5
5°	4833.8	4827.9	4859.6	4863.5	4905.2	4917.1	4927.0	4911.1	4915.1	4823.9	4784.3
7.5°	4473.1	4471.1	4524.6	4570.2	4657.4	4738.7	4792.2	4776.3	4798.1	4740.7	4647.5
10°	4045.0	4090.6	4146.1	4191.7	4352.2	4455.3	4594.0	4607.9	4691.1	4677.2	4508.8
12.5°	3724.0	3743.8	3785.4	3916.2	4062.9	4233.3	4431.5	4449.3	4530.6	4570.2	4423.6
15°	3460.4	3478.2	3531.7	3628.8	3793.3	3995.5	4247.2	4292.8	4455.3	4469.1	4312.6
17.5°	3268.1	3282.0	3317.7	3414.8	3549.6	3809.2	4047.0	4128.3	4342.3	4409.7	4197.6
20°	3192.8	3163.1	3182.9	3244.3	3379.1	3579.3	3886.5	3957.8	4231.3	4364.1	4088.6
22.5°	3159.1	3133.4	3145.2	3141.3	3248.3	3391.0	3714.0	3789.4	4126.3	4310.6	3991.5
25°	3184.9	3184.9	3173.0	3163.1	3175.0	3268.1	3527.8	3644.7	3985.6	4265.0	3892.4
27.5°	3323.6	3270.1	3276.1	3234.4	3222.5	3222.5	3444.5	3513.9	3940.0	4239.2	3811.2
30°	3412.8	3438.6	3440.5	3379.1	3317.7	3206.7	3367.2	3434.6	3902.3	4271.0	3763.6
32.5°	3640.7	3628.8	3595.1	3583.2	3492.1	3367.2	3404.9	3450.5	3880.5	4342.3	3777.5
35°	3868.6	3862.7	3864.7	3858.7	3763.6	3579.3	3506.0	3567.4	3920.2	4467.2	3825.0
37.5°	4104.5	4120.3	4187.7	4187.7	4086.6	3886.5	3789.4	3771.5	4064.8	4671.3	3938.0
40°	4340.3	4380.0	4465.2	4600.0	4457.3	4271.0	4114.4	4086.6	4239.2	4944.8	4209.5
42.5°	4566.3	4631.7	4800.1	5000.3	4952.7	4766.4	4558.3	4526.6	4598.0	5351.1	4588.1
45°	4855.6	4911.1	5176.7	5483.9	5549.3	5384.8	5141.0	5115.2	5111.3	5945.6	5109.3
47.5°	5295.6	5355.0	5620.6	5929.8	6131.9	6157.7	5884.2	5856.5	5761.3	6748.3	5872.3
50°	5846.6	5943.7	6167.6	6528.3	6821.6	7097.1	7019.8	6938.6	6752.3	7681.8	6839.5
52.5°	6248.9	6367.8	6671.0	7132.8	7650.1	8088.1	8365.5	8365.5	7937.4	8706.4	8002.8
55°	6355.9	6427.2	6809.8	7477.6	8363.5	9471.4	10052.1	10008.5	9348.5	9784.6	9356.5
57.5°	5929.8	6022.9	6486.7	7186.3	8738.1	10765.6	11726.8	11736.7	10890.4	11037.1	10692.3
60°	4756.5	4786.2	5333.2	6268.7	8377.4	11808.1	14013.9	14051.6	12644.4	12152.9	11372.0
62.5°	3287.9	3383.1	3795.3	4615.8	6940.6	11691.1	16219.7	16406.0	14049.6	12741.5	11479.1
65°	2164.2	2221.7	2441.7	2941.1	4831.8	10133.4	16905.5	17480.2	15123.8	12775.2	11031.2
67.5°	1569.7	1579.6	1645.0	1902.6	2903.5	7287.4	15734.2	16544.8	15526.1	12493.8	9980.8
70°	1268.4	1276.3	1300.1	1464.6	1874.9	4560.3	12832.7	14103.1	14319.1	11160.0	8038.5
72.5°	1030.6	1040.5	1070.2	1224.8	1545.9	2536.8	9384.2	10932.1	11647.5	8256.5	5343.2
75°	810.6	818.5	889.9	1042.5	1452.7	1742.1	6225.1	7741.2	7838.3	4825.9	2501.1
77.5°	554.9	568.8	656.0	883.9	1367.5	1524.1	3880.5	4958.7	4449.3	1888.7	860.1
80°	352.8	372.6	424.1	669.9	1208.9	1454.7	2413.9	2960.9	1948.2	646.1	414.2
82.5°	208.1	227.9	279.4	434.0	949.3	1349.7	1700.5	1853.1	913.6	331.0	249.7
85°	114.9	128.8	168.5	261.6	556.9	1199.0	1361.6	1329.8	523.2	176.4	156.6
87.5°	37.7	43.6	61.4	105.0	229.9	564.8	816.5	767.0	271.5	81.3	61.4
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: P480456

CATALOG NUMBER: IFLD-S-SA2E-735-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7	4843.7
2.5°	4839.8	4833.8	4744.6	4677.2	4562.3	4467.2	4429.5	4378.0	4376.0	4338.3	4328.4
5°	4722.8	4661.4	4524.6	4393.8	4189.7	4053.0	3928.1	3840.9	3805.2	3727.9	3710.1
7.5°	4572.2	4490.9	4280.9	4035.1	3795.3	3581.3	3387.0	3192.8	3083.8	3046.2	3004.5
10°	4415.6	4272.9	3961.8	3686.3	3351.4	3022.4	2717.2	2443.7	2295.0	2190.0	2144.4
12.5°	4290.8	4100.5	3704.1	3291.9	2849.9	2410.0	2055.2	1767.8	1599.4	1520.1	1484.4
15°	4150.1	3898.4	3422.7	2901.5	2350.5	1851.1	1504.2	1278.3	1210.9	1173.3	1167.3
17.5°	4001.4	3710.1	3117.5	2517.0	1863.0	1393.3	1169.3	1078.1	1048.4	1032.6	1024.6
20°	3862.7	3541.6	2804.4	2088.9	1458.7	1117.8	1012.7	965.2	963.2	971.1	969.1
22.5°	3666.5	3321.6	2495.2	1692.5	1165.3	973.1	905.7	893.8	905.7	915.6	919.6
25°	3555.5	3141.3	2150.3	1343.7	963.2	864.1	842.3	838.3	856.2	868.1	866.1
27.5°	3440.5	2955.0	1829.3	1076.2	844.3	786.8	782.8	786.8	804.6	822.5	820.5
30°	3351.4	2806.3	1528.0	899.8	753.1	731.3	727.4	731.3	741.2	743.2	743.2
32.5°	3278.0	2630.0	1272.4	780.9	697.6	679.8	683.7	681.8	683.7	685.7	687.7
35°	3234.4	2524.9	1062.3	707.5	652.0	638.2	636.2	630.2	632.2	634.2	632.2
37.5°	3327.6	2473.4	895.8	656.0	620.3	608.4	604.5	600.5	594.6	594.6	594.6
40°	3468.3	2445.6	794.7	622.3	596.5	582.7	570.8	566.8	566.8	568.8	570.8
42.5°	3747.7	2491.2	725.4	596.5	566.8	551.0	539.1	541.1	547.0	552.9	549.0
45°	4152.0	2630.0	693.7	576.7	549.0	527.2	519.3	517.3	523.2	533.1	541.1
47.5°	4681.2	2846.0	681.8	558.9	537.1	507.4	497.5	503.4	511.3	525.2	519.3
50°	5547.3	3331.5	691.7	543.0	519.3	497.5	485.6	479.6	485.6	495.5	499.4
52.5°	6678.9	4213.5	729.3	535.1	507.4	489.5	469.7	459.8	465.7	473.7	473.7
55°	8032.6	5418.5	834.4	525.2	487.5	477.6	455.8	436.0	440.0	440.0	438.0
57.5°	9225.7	6328.2	959.2	511.3	475.7	461.8	434.0	410.2	406.3	408.3	410.2
60°	9760.8	6569.9	1018.7	507.4	475.7	442.0	404.3	380.5	374.6	370.6	370.6
62.5°	9667.6	6151.8	897.8	489.5	487.5	426.1	376.6	350.8	342.9	334.9	336.9
65°	9104.8	5555.2	707.5	465.7	489.5	416.2	348.8	323.0	309.2	299.3	297.3
67.5°	8076.2	4742.6	560.9	447.9	469.7	398.4	325.0	295.3	283.4	273.5	269.5
70°	6318.2	3718.0	487.5	424.1	422.1	354.8	297.3	271.5	253.7	241.8	241.8
72.5°	4096.6	2350.5	418.2	376.6	364.7	297.3	257.6	241.8	227.9	218.0	218.0
75°	1855.0	1092.0	336.9	315.1	297.3	237.8	218.0	210.1	198.2	188.3	188.3
77.5°	665.9	465.7	251.7	247.7	222.0	184.3	176.4	170.4	162.5	152.6	152.6
80°	372.6	295.3	188.3	180.4	154.6	136.7	126.8	126.8	122.9	116.9	114.9
82.5°	235.8	192.2	138.7	120.9	101.1	91.2	87.2	85.2	83.2	75.3	73.3
85°	148.6	130.8	91.2	71.3	59.5	45.6	43.6	41.6	37.7	33.7	33.7
87.5°	67.4	75.3	35.7	21.8	15.9	9.9	5.9	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)