

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: P480417

Luminaire Tested: **IFLD-S-SA2E-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480417
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

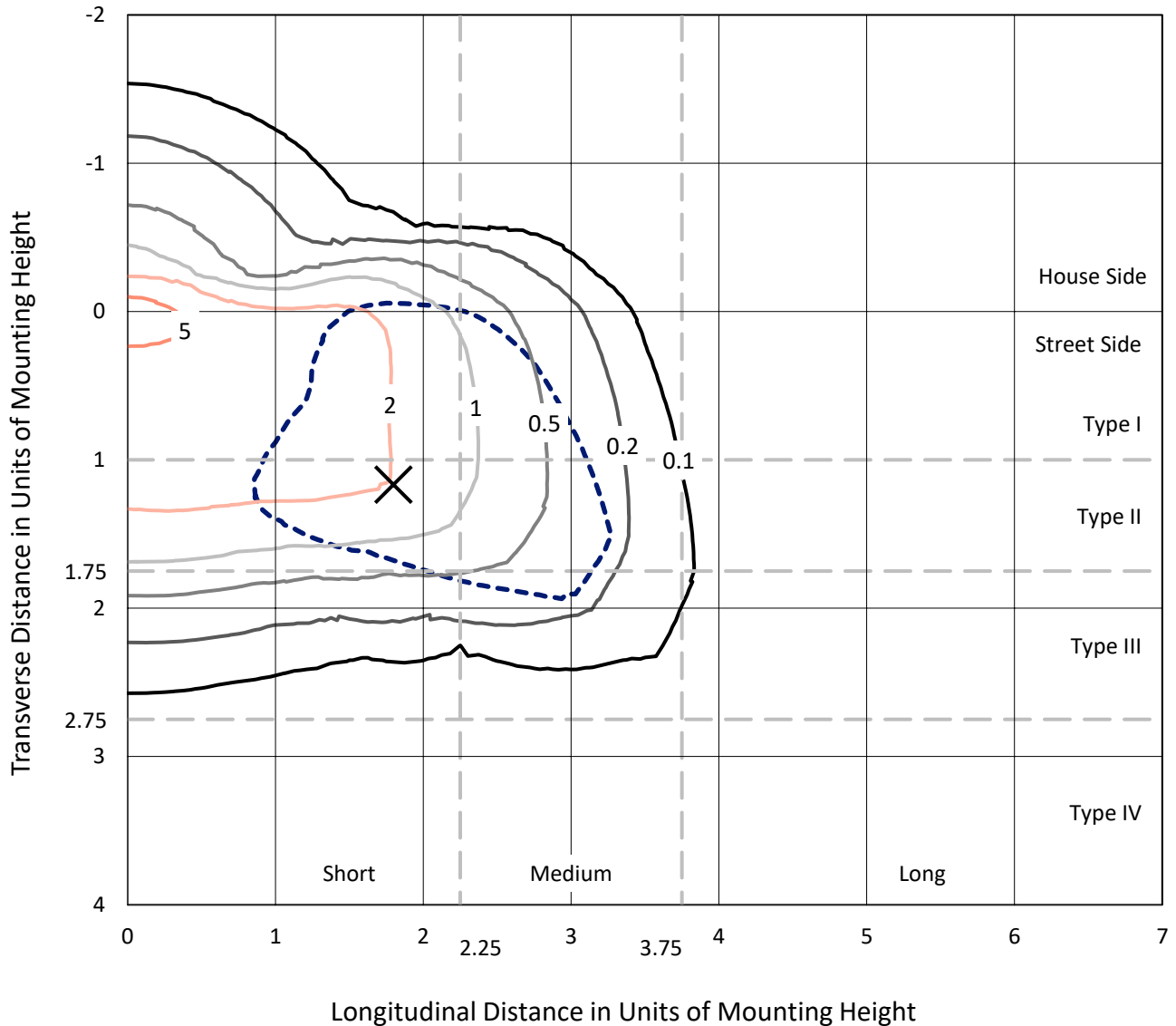
Lumens per Lamp: N/A
Luminaire Lumens: 16262.5 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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: P480417
 CATALOG NUMBER: IFLD-S-SA2E-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

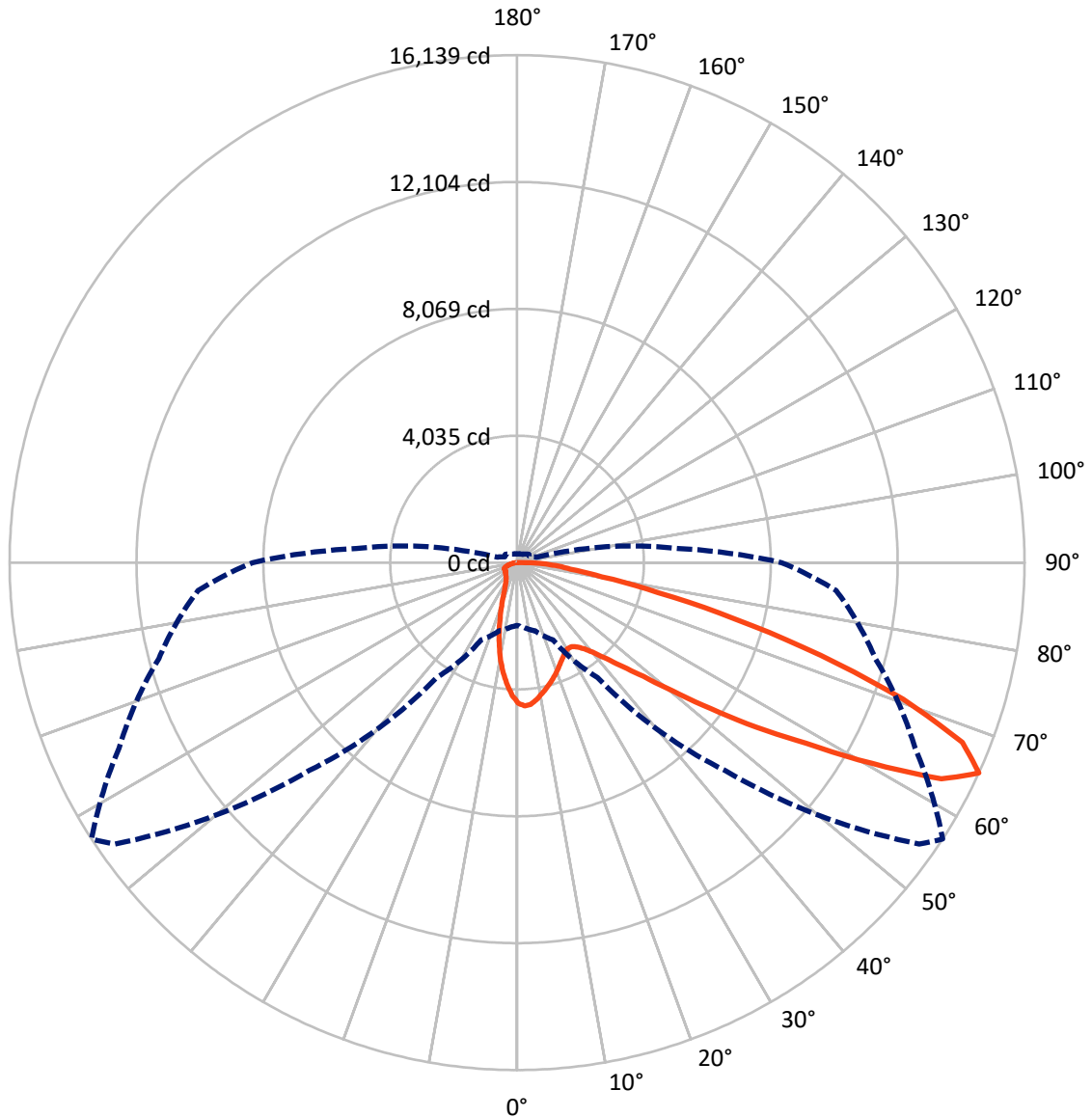
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

REPORT NUMBER: P480417
CATALOG NUMBER: IFLD-S-SA2E-730-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P480417
 CATALOG NUMBER: IFLD-S-SA2E-730-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2494.0	0.0	2494.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	13768.5	0.0	13768.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	16262.5	0.0	16262.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.5	2.3
10°-20°	806.0	5.0
20°-30°	1042.0	6.4
30°-40°	1402.3	8.6
40°-50°	2235.9	13.7
50°-60°	3949.2	24.3
60°-70°	4344.7	26.7
70°-80°	1817.5	11.2
80°-90°	290.5	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°	16262.5	100.0
0°-180°	16262.5	100.0

Coefficient of Utilization

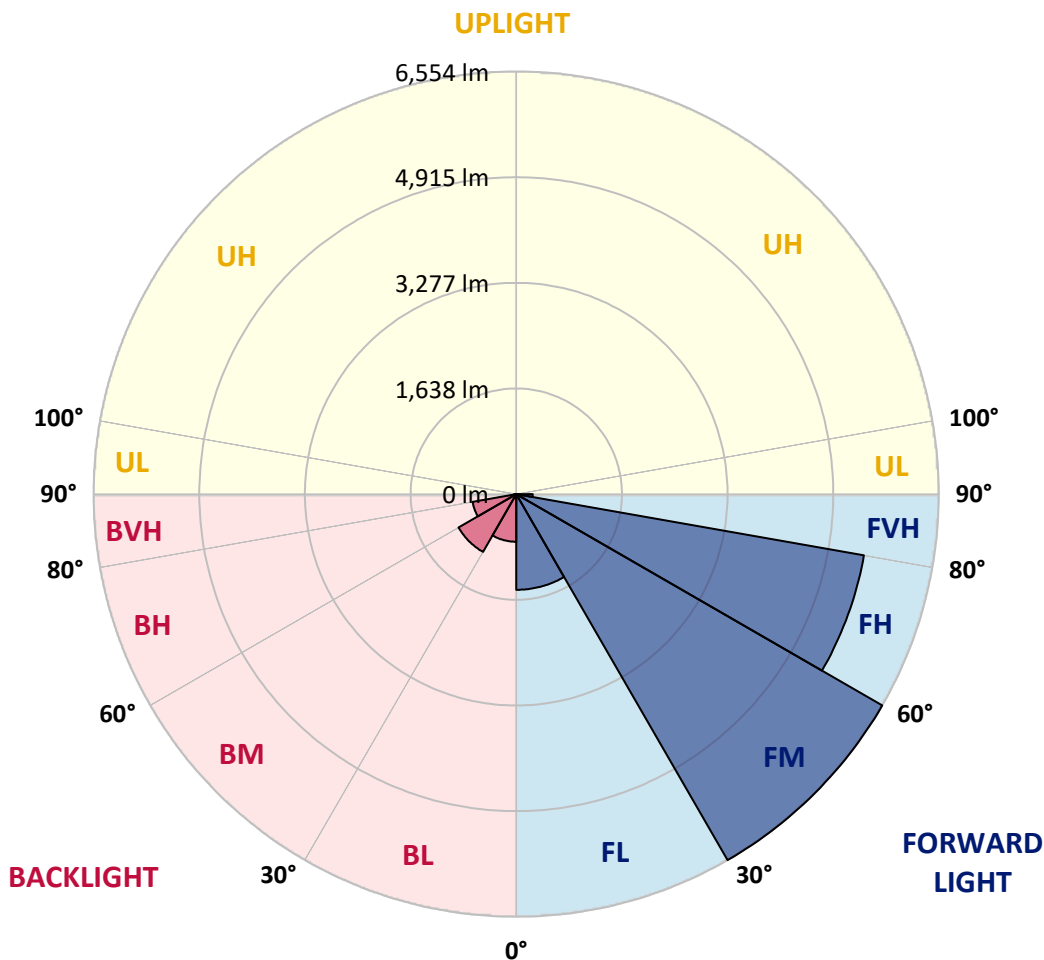


REPORT NUMBER: P480417
 CATALOG NUMBER: IFLD-S-SA2E-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1483.9	9.1			
FM (30°-60°)	6553.8	40.3			
FH (60°-80°)	5474.4	33.7			G3/7500
FVH (80°-90°)	256.4	1.6			G3/500
BL (0°-30°)	738.6	4.5	B2/1000		
BM (30°-60°)	1033.7	6.4	B2/2500		
BH (60°-80°)	687.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	34.1	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-G3
 Type III Short





REPORT NUMBER: P480417

CATALOG NUMBER: IFLD-S-SA2E-730-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0
2.5°	4592.7	4600.0	4600.0	4614.7	4565.3	4589.1	4585.4	4563.4	4570.8	4532.3	4493.9
5°	4462.8	4457.3	4486.6	4490.3	4528.7	4539.7	4548.8	4534.2	4537.8	4453.7	4417.1
7.5°	4129.8	4128.0	4177.4	4219.5	4300.0	4375.0	4424.4	4409.7	4429.9	4376.8	4290.8
10°	3734.6	3776.6	3827.9	3870.0	4018.2	4113.3	4241.4	4254.2	4331.1	4318.3	4162.7
12.5°	3438.1	3456.4	3494.9	3615.6	3751.0	3908.4	4091.4	4107.8	4182.9	4219.5	4084.0
15°	3194.8	3211.2	3260.7	3350.3	3502.2	3688.8	3921.2	3963.3	4113.3	4126.1	3981.6
17.5°	3017.3	3030.1	3063.0	3152.7	3277.1	3516.8	3736.4	3811.4	4009.0	4071.2	3875.5
20°	2947.8	2920.3	2938.6	2995.3	3119.8	3304.6	3588.2	3654.1	3906.6	4029.2	3774.8
22.5°	2916.7	2892.9	2903.8	2900.2	2999.0	3130.7	3429.0	3498.5	3809.6	3979.8	3685.2
25°	2940.4	2940.4	2929.5	2920.3	2931.3	3017.3	3257.0	3364.9	3679.7	3937.7	3593.7
27.5°	3068.5	3019.1	3024.6	2986.2	2975.2	2975.2	3180.1	3244.2	3637.6	3913.9	3518.6
30°	3150.9	3174.7	3176.5	3119.8	3063.0	2960.6	3108.8	3171.0	3602.8	3943.2	3474.7
32.5°	3361.3	3350.3	3319.2	3308.2	3224.1	3108.8	3143.5	3185.6	3582.7	4009.0	3487.5
35°	3571.7	3566.2	3568.1	3562.6	3474.7	3304.6	3236.9	3293.6	3619.3	4124.3	3531.5
37.5°	3789.5	3804.1	3866.3	3866.3	3773.0	3588.2	3498.5	3482.1	3752.9	4312.8	3635.8
40°	4007.2	4043.8	4122.5	4246.9	4115.2	3943.2	3798.6	3773.0	3913.9	4565.3	3886.4
42.5°	4215.8	4276.2	4431.7	4616.5	4572.6	4400.6	4208.5	4179.2	4245.1	4940.4	4235.9
45°	4482.9	4534.2	4779.4	5063.0	5123.4	4971.5	4746.4	4722.6	4719.0	5489.3	4717.1
47.5°	4889.1	4944.0	5189.2	5474.7	5661.3	5685.1	5432.6	5407.0	5319.1	6230.4	5421.6
50°	5397.8	5487.5	5694.2	6027.3	6298.1	6552.4	6481.0	6406.0	6234.0	7092.2	6314.5
52.5°	5769.3	5879.1	6159.0	6585.3	7062.9	7467.3	7723.5	7723.5	7328.2	8038.2	7388.6
55°	5868.1	5933.9	6287.1	6903.7	7721.6	8744.5	9280.6	9240.3	8631.0	9033.6	8638.3
57.5°	5474.7	5560.7	5988.8	6634.7	8067.5	9939.3	10826.8	10835.9	10054.6	10190.0	9871.6
60°	4391.4	4418.9	4923.9	5787.6	7734.4	10901.8	12938.3	12973.1	11673.9	11220.2	10499.2
62.5°	3035.6	3123.4	3504.0	4261.5	6407.9	10793.8	14974.8	15146.8	12971.2	11763.6	10598.0
65°	1998.1	2051.2	2254.3	2715.4	4461.0	9355.6	15607.9	16138.6	13963.0	11794.7	10184.5
67.5°	1449.2	1458.3	1518.7	1756.6	2680.6	6728.1	14526.5	15274.9	14334.4	11534.9	9214.7
70°	1171.1	1178.4	1200.3	1352.2	1731.0	4210.3	11847.8	13020.6	13220.1	10303.4	7421.5
72.5°	951.5	960.6	988.1	1130.8	1427.2	2342.1	8664.0	10093.0	10753.6	7622.8	4933.1
75°	748.4	755.7	821.6	962.5	1341.2	1608.4	5747.3	7147.1	7236.7	4455.5	2309.2
77.5°	512.3	525.1	605.7	816.1	1262.5	1407.1	3582.7	4578.1	4107.8	1743.8	794.1
80°	325.7	344.0	391.6	618.5	1116.2	1343.1	2228.7	2733.7	1798.7	596.5	382.4
82.5°	192.1	210.4	258.0	400.7	876.5	1246.1	1569.9	1710.8	843.5	305.6	230.6
85°	106.1	118.9	155.5	241.5	514.2	1107.0	1257.1	1227.8	483.1	162.8	144.6
87.5°	34.8	40.3	56.7	97.0	212.3	521.5	753.9	708.1	250.7	75.0	56.7
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: P480417

CATALOG NUMBER: IFLD-S-SA2E-730-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0	4472.0
2.5°	4468.3	4462.8	4380.5	4318.3	4212.1	4124.3	4089.5	4042.0	4040.1	4005.4	3996.2
5°	4360.3	4303.6	4177.4	4056.6	3868.1	3741.9	3626.6	3546.1	3513.2	3441.8	3425.3
7.5°	4221.3	4146.3	3952.3	3725.4	3504.0	3306.4	3127.1	2947.8	2847.1	2812.4	2773.9
10°	4076.7	3945.0	3657.7	3403.4	3094.1	2790.4	2508.6	2256.1	2118.9	2021.9	1979.8
12.5°	3961.5	3785.8	3419.8	3039.2	2631.2	2225.0	1897.5	1632.2	1476.6	1403.4	1370.5
15°	3831.5	3599.2	3160.0	2678.8	2170.1	1709.0	1388.8	1180.2	1118.0	1083.2	1077.7
17.5°	3694.3	3425.3	2878.2	2323.8	1720.0	1286.3	1079.6	995.4	967.9	953.3	946.0
20°	3566.2	3269.8	2589.1	1928.6	1346.7	1032.0	935.0	891.1	889.3	896.6	894.8
22.5°	3385.1	3066.7	2303.7	1562.6	1075.9	898.4	836.2	825.2	836.2	845.4	849.0
25°	3282.6	2900.2	1985.3	1240.6	889.3	797.8	777.7	774.0	790.5	801.4	799.6
27.5°	3176.5	2728.2	1688.9	993.6	779.5	726.4	722.8	726.4	742.9	759.4	757.5
30°	3094.1	2591.0	1410.8	830.7	695.3	675.2	671.5	675.2	684.3	686.2	686.2
32.5°	3026.4	2428.1	1174.7	720.9	644.1	627.6	631.3	629.4	631.3	633.1	634.9
35°	2986.2	2331.1	980.8	653.2	602.0	589.2	587.4	581.9	583.7	585.5	583.7
37.5°	3072.2	2283.6	827.1	605.7	572.7	561.7	558.1	554.4	548.9	548.9	548.9
40°	3202.1	2257.9	733.7	574.5	550.8	538.0	527.0	523.3	523.3	525.1	527.0
42.5°	3460.1	2300.0	669.7	550.8	523.3	508.7	497.7	499.5	505.0	510.5	506.8
45°	3833.4	2428.1	640.4	532.5	506.8	486.7	479.4	477.6	483.1	492.2	499.5
47.5°	4321.9	2627.6	629.4	516.0	495.9	468.4	459.3	464.8	472.1	484.9	479.4
50°	5121.5	3075.8	638.6	501.4	479.4	459.3	448.3	442.8	448.3	457.4	461.1
52.5°	6166.3	3890.1	673.4	494.0	468.4	452.0	433.7	424.5	430.0	437.3	437.3
55°	7416.1	5002.6	770.3	484.9	450.1	441.0	420.8	402.5	406.2	406.2	404.4
57.5°	8517.6	5842.5	885.6	472.1	439.1	426.3	400.7	378.8	375.1	376.9	378.8
60°	9011.6	6065.7	940.5	468.4	439.1	408.0	373.3	351.3	345.8	342.2	342.2
62.5°	8925.6	5679.6	828.9	452.0	450.1	393.4	347.7	323.9	316.6	309.2	311.1
65°	8406.0	5128.8	653.2	430.0	452.0	384.3	322.0	298.3	285.4	276.3	274.5
67.5°	7456.3	4378.6	517.8	413.5	433.7	367.8	300.1	272.6	261.7	252.5	248.8
70°	5833.3	3432.6	450.1	391.6	389.7	327.5	274.5	250.7	234.2	223.2	223.2
72.5°	3782.1	2170.1	386.1	347.7	336.7	274.5	237.9	223.2	210.4	201.3	201.3
75°	1712.7	1008.2	311.1	290.9	274.5	219.6	201.3	194.0	183.0	173.8	173.8
77.5°	614.8	430.0	232.4	228.7	204.9	170.2	162.8	157.4	150.0	140.9	140.9
80°	344.0	272.6	173.8	166.5	142.7	126.3	117.1	117.1	113.4	108.0	106.1
82.5°	217.7	177.5	128.1	111.6	93.3	84.2	80.5	78.7	76.9	69.5	67.7
85°	137.2	120.8	84.2	65.9	54.9	42.1	40.3	38.4	34.8	31.1	31.1
87.5°	62.2	69.5	32.9	20.1	14.6	9.1	5.5	1.8	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)