

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: P480495

Luminaire Tested: **IFLD-S-SA2E-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480495
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

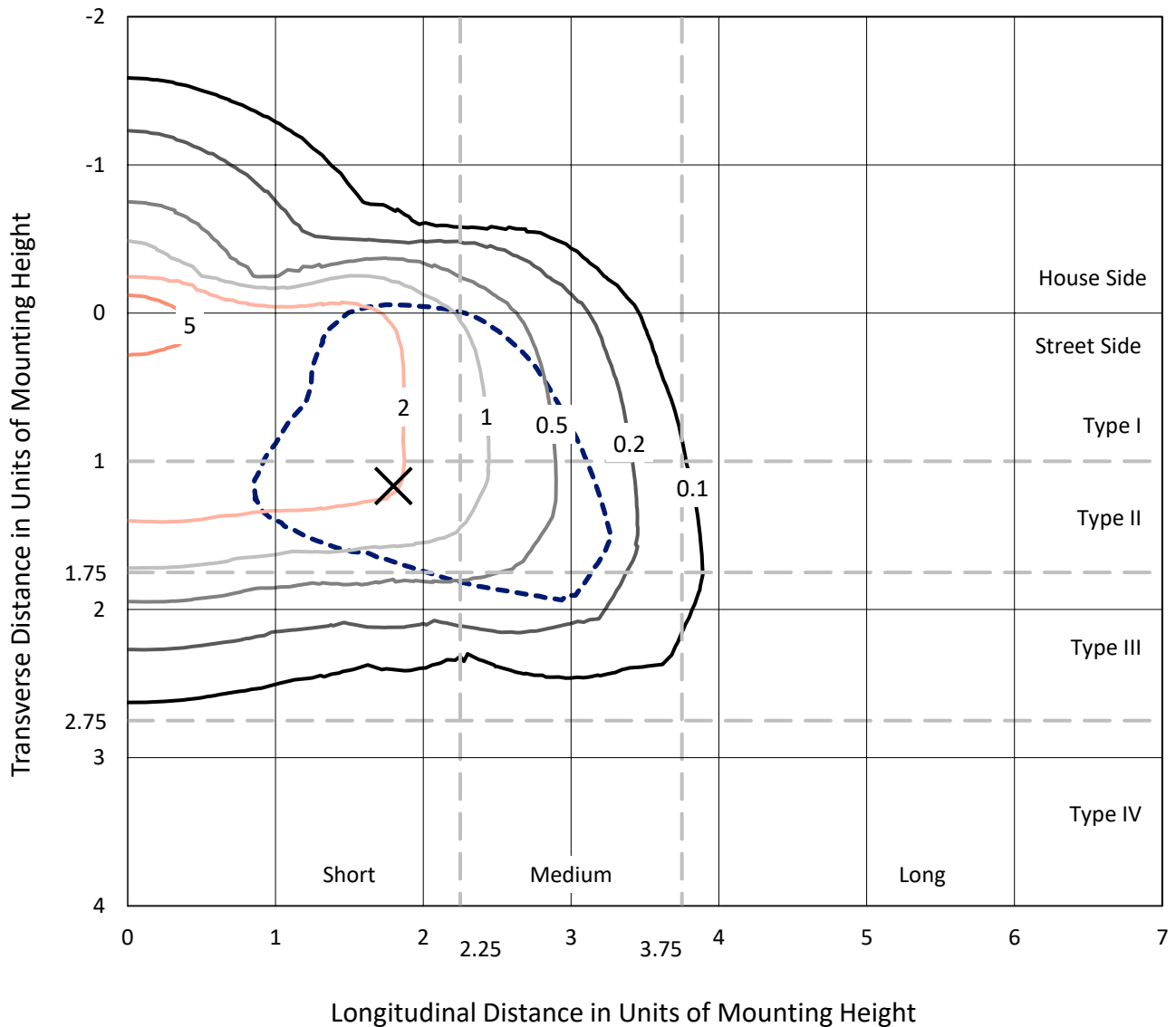
Lumens per Lamp: N/A
Luminaire Lumens: 17859.1 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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: P480495
 CATALOG NUMBER: IFLD-S-SA2E-740-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

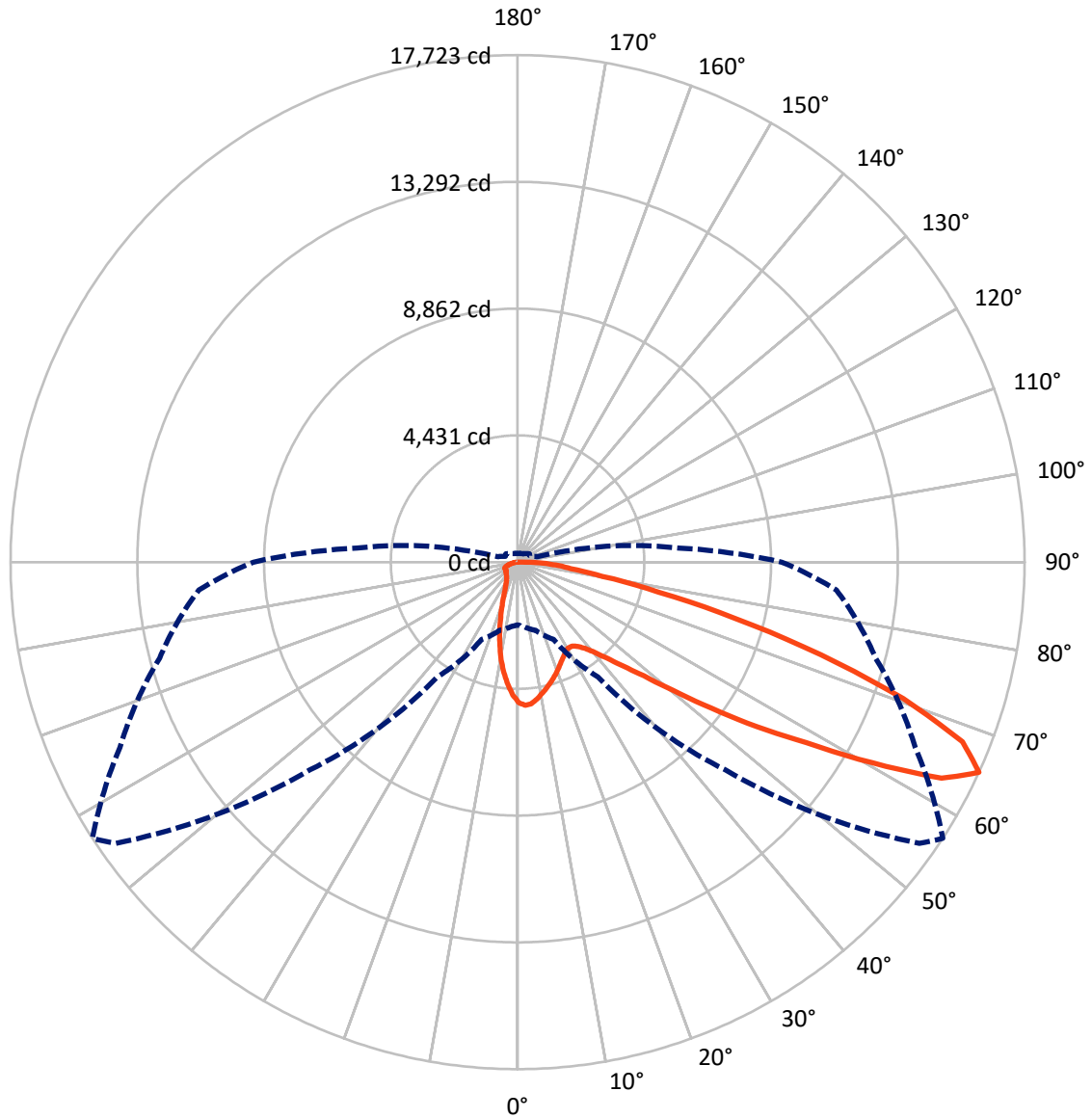
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

REPORT NUMBER: P480495
CATALOG NUMBER: IFLD-S-SA2E-740-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480495
 CATALOG NUMBER: IFLD-S-SA2E-740-U-SL3

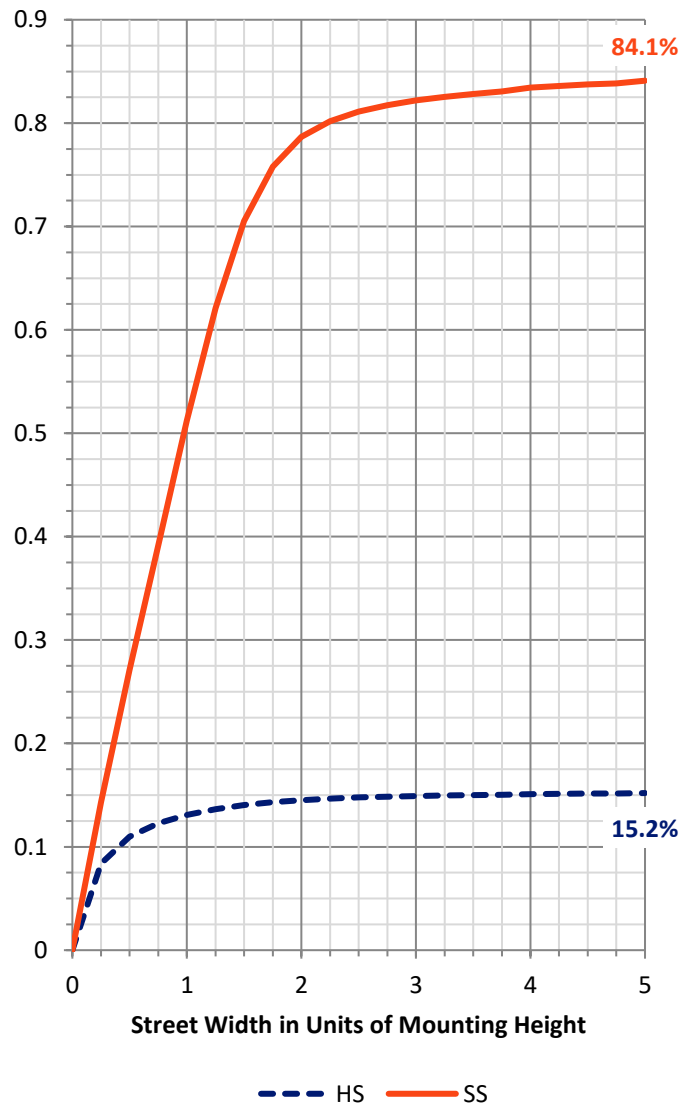
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2738.9	0.0	2738.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	15120.2	0.0	15120.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	17859.1	0.0	17859.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.3	2.3
10°-20°	885.1	5.0
20°-30°	1144.3	6.4
30°-40°	1539.9	8.6
40°-50°	2455.5	13.7
50°-60°	4336.9	24.3
60°-70°	4771.2	26.7
70°-80°	1995.9	11.2
80°-90°	319.0	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°	17859.1	100.0
0°-180°	17859.1	100.0

Coefficient of Utilization



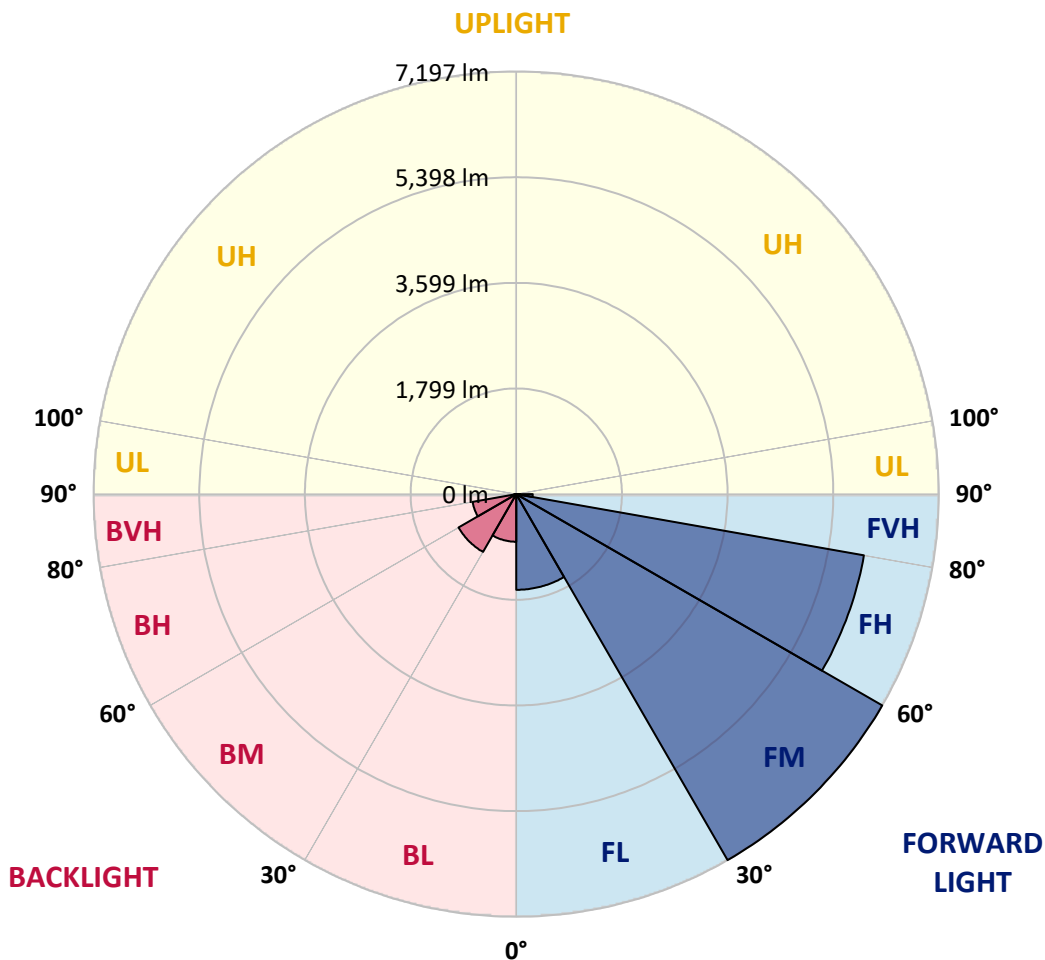
REPORT NUMBER: P480495
 CATALOG NUMBER: IFLD-S-SA2E-740-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1629.6	9.1			
FM (30°-60°)	7197.2	40.3			
FH (60°-80°)	6011.9	33.7			G3/7500
FVH (80°-90°)	281.6	1.6			G3/500
BL (0°-30°)	811.1	4.5	B2/1000		
BM (30°-60°)	1135.1	6.4	B2/2500		
BH (60°-80°)	755.2	4.2	B2/1000		G2/1000
BVH (80°-90°)	37.4	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: P480495

CATALOG NUMBER: IFLD-S-SA2E-740-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0
2.5°	5043.6	5051.7	5051.7	5067.7	5013.5	5039.6	5035.6	5011.5	5019.5	4977.3	4935.1
5°	4901.0	4894.9	4927.1	4931.1	4973.3	4985.4	4995.4	4979.3	4983.3	4890.9	4850.7
7.5°	4535.2	4533.2	4587.5	4633.7	4722.1	4804.5	4858.8	4842.7	4864.8	4806.5	4712.1
10°	4101.2	4147.4	4203.7	4249.9	4412.7	4517.2	4657.8	4671.9	4756.3	4742.2	4571.4
12.5°	3775.7	3795.8	3838.0	3970.6	4119.3	4292.1	4493.0	4511.1	4593.5	4633.7	4485.0
15°	3508.4	3526.5	3580.8	3679.2	3846.0	4051.0	4306.2	4352.4	4517.2	4531.2	4372.5
17.5°	3313.5	3327.6	3363.8	3462.2	3598.9	3862.1	4103.2	4185.6	4402.6	4470.9	4255.9
20°	3237.2	3207.0	3227.1	3289.4	3426.0	3629.0	3940.5	4012.8	4290.1	4424.7	4145.4
22.5°	3203.0	3176.9	3188.9	3184.9	3293.4	3438.1	3765.6	3842.0	4183.6	4370.5	4047.0
25°	3229.1	3229.1	3217.1	3207.0	3219.1	3313.5	3576.8	3695.3	4040.9	4324.3	3946.5
27.5°	3369.8	3315.5	3321.6	3279.4	3267.3	3267.3	3492.4	3562.7	3994.7	4298.1	3864.1
30°	3460.2	3486.3	3488.3	3426.0	3363.8	3251.2	3414.0	3482.3	3956.5	4330.3	3815.9
32.5°	3691.3	3679.2	3645.1	3633.0	3540.6	3414.0	3452.2	3498.4	3934.4	4402.6	3829.9
35°	3922.4	3916.3	3918.4	3912.3	3815.9	3629.0	3554.6	3616.9	3974.6	4529.2	3878.2
37.5°	4161.5	4177.6	4245.9	4245.9	4143.4	3940.5	3842.0	3823.9	4121.3	4736.2	3992.7
40°	4400.6	4440.8	4527.2	4663.8	4519.2	4330.3	4171.5	4143.4	4298.1	5013.5	4268.0
42.5°	4629.7	4696.0	4866.8	5069.7	5021.5	4832.6	4621.6	4589.5	4661.8	5425.4	4651.8
45°	4923.1	4979.3	5248.6	5560.0	5626.4	5459.6	5212.4	5186.3	5182.3	6028.2	5180.3
47.5°	5369.1	5429.4	5698.7	6012.2	6217.1	6243.2	5965.9	5937.8	5841.4	6842.0	5953.9
50°	5927.8	6026.2	6253.3	6619.0	6916.4	7195.7	7117.3	7035.0	6846.1	7788.5	6934.5
52.5°	6335.7	6456.2	6763.7	7231.9	7756.3	8200.4	8481.7	8481.7	8047.7	8827.3	8114.0
55°	6444.2	6516.5	6904.3	7581.5	8479.7	9603.0	10191.7	10147.5	9478.4	9920.5	9486.4
57.5°	6012.2	6106.6	6576.8	7286.1	8859.5	10915.1	11889.7	11899.7	11041.7	11190.4	10840.8
60°	4822.6	4852.7	5407.3	6355.8	8493.8	11972.1	14208.6	14246.7	12820.0	12321.7	11530.0
62.5°	3333.6	3430.1	3848.0	4679.9	7037.0	11853.5	16445.0	16633.9	14244.7	12918.5	11638.5
65°	2194.3	2252.6	2475.6	2982.0	4898.9	10274.1	17140.3	17723.0	15333.8	12952.7	11184.4
67.5°	1591.5	1601.5	1667.8	1929.0	2943.8	7388.6	15952.7	16774.6	15741.7	12667.3	10119.4
70°	1286.0	1294.1	1318.2	1485.0	1900.9	4623.7	13010.9	14299.0	14518.0	11315.0	8150.2
72.5°	1044.9	1054.9	1085.1	1241.8	1567.3	2572.0	9514.6	11083.9	11809.3	8371.2	5417.4
75°	821.8	829.9	902.2	1057.0	1472.9	1766.3	6311.6	7848.8	7947.2	4892.9	2535.9
77.5°	562.6	576.7	665.1	896.2	1386.5	1545.2	3934.4	5027.5	4511.1	1915.0	872.1
80°	357.7	377.8	430.0	679.2	1225.7	1474.9	2447.5	3002.1	1975.3	655.1	420.0
82.5°	211.0	231.1	283.3	440.1	962.5	1368.4	1724.1	1878.8	926.3	335.6	253.2
85°	116.5	130.6	170.8	265.2	564.6	1215.7	1380.5	1348.3	530.5	178.8	158.7
87.5°	38.2	44.2	62.3	106.5	233.1	572.7	827.9	777.6	275.3	82.4	62.3
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: P480495
 CATALOG NUMBER: IFLD-S-SA2E-740-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0	4911.0
2.5°	4907.0	4901.0	4810.5	4742.2	4625.7	4529.2	4491.0	4438.8	4436.8	4398.6	4388.6
5°	4788.4	4726.1	4587.5	4454.9	4247.9	4109.2	3982.7	3894.2	3858.1	3779.7	3761.6
7.5°	4635.7	4553.3	4340.3	4091.2	3848.0	3631.0	3434.1	3237.2	3126.6	3088.5	3046.3
10°	4477.0	4332.3	4016.8	3737.5	3397.9	3064.4	2754.9	2477.6	2326.9	2220.4	2174.2
12.5°	4350.4	4157.5	3755.6	3337.6	2889.5	2443.4	2083.8	1792.4	1621.6	1541.2	1505.0
15°	4207.7	3952.5	3470.3	2941.8	2383.2	1876.8	1525.1	1296.1	1227.8	1189.6	1183.5
17.5°	4057.0	3761.6	3160.8	2552.0	1888.8	1412.6	1185.6	1093.1	1063.0	1046.9	1038.9
20°	3916.3	3590.8	2843.3	2117.9	1478.9	1133.3	1026.8	978.6	976.6	984.6	982.6
22.5°	3717.4	3367.8	2529.8	1716.0	1181.5	986.6	918.3	906.2	918.3	928.3	932.4
25°	3604.9	3184.9	2180.2	1362.4	976.6	876.1	854.0	850.0	868.1	880.1	878.1
27.5°	3488.3	2996.0	1854.7	1091.1	856.0	797.7	793.7	797.7	815.8	833.9	831.9
30°	3397.9	2845.3	1549.3	912.3	763.6	741.5	737.5	741.5	751.5	753.5	753.5
32.5°	3323.6	2666.5	1290.0	791.7	707.3	689.2	693.2	691.2	693.2	695.3	697.3
35°	3279.4	2560.0	1077.0	717.4	661.1	647.0	645.0	639.0	641.0	643.0	641.0
37.5°	3373.8	2507.7	908.3	665.1	628.9	616.9	612.9	608.9	602.8	602.8	602.8
40°	3516.5	2479.6	805.8	631.0	604.8	590.8	578.7	574.7	574.7	576.7	578.7
42.5°	3799.8	2525.8	735.4	604.8	574.7	558.6	546.6	548.6	554.6	560.6	556.6
45°	4209.7	2666.5	703.3	584.7	556.6	534.5	526.5	524.5	530.5	540.5	548.6
47.5°	4746.2	2885.5	691.2	566.7	544.6	514.4	504.4	510.4	518.4	532.5	526.5
50°	5624.3	3377.8	701.3	550.6	526.5	504.4	492.3	486.3	492.3	502.4	506.4
52.5°	6771.7	4272.0	739.5	542.5	514.4	496.3	476.2	466.2	472.2	480.2	480.2
55°	8144.1	5493.7	846.0	532.5	494.3	484.3	462.2	442.1	446.1	446.1	444.1
57.5°	9353.8	6416.1	972.6	518.4	482.3	468.2	440.1	415.9	411.9	413.9	415.9
60°	9896.4	6661.2	1032.8	514.4	482.3	448.1	409.9	385.8	379.8	375.8	375.8
62.5°	9801.9	6237.2	910.3	496.3	494.3	432.0	381.8	355.7	347.6	339.6	341.6
65°	9231.2	5632.4	717.4	472.2	496.3	422.0	353.7	327.5	313.5	303.4	301.4
67.5°	8188.4	4808.5	568.7	454.1	476.2	403.9	329.5	299.4	287.3	277.3	273.3
70°	6406.0	3769.7	494.3	430.0	428.0	359.7	301.4	275.3	257.2	245.1	245.1
72.5°	4153.5	2383.2	424.0	381.8	369.7	301.4	261.2	245.1	231.1	221.0	221.0
75°	1880.8	1107.2	341.6	319.5	301.4	241.1	221.0	213.0	200.9	190.9	190.9
77.5°	675.2	472.2	255.2	251.2	225.1	186.9	178.8	172.8	164.8	154.7	154.7
80°	377.8	299.4	190.9	182.9	156.7	138.6	128.6	128.6	124.6	118.6	116.5
82.5°	239.1	194.9	140.7	122.6	102.5	92.4	88.4	86.4	84.4	76.4	74.3
85°	150.7	132.6	92.4	72.3	60.3	46.2	44.2	42.2	38.2	34.2	34.2
87.5°	68.3	76.4	36.2	22.1	16.1	10.0	6.0	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)