

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: P482594

Luminaire Tested: **IFLD-L-SA8B-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482594
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

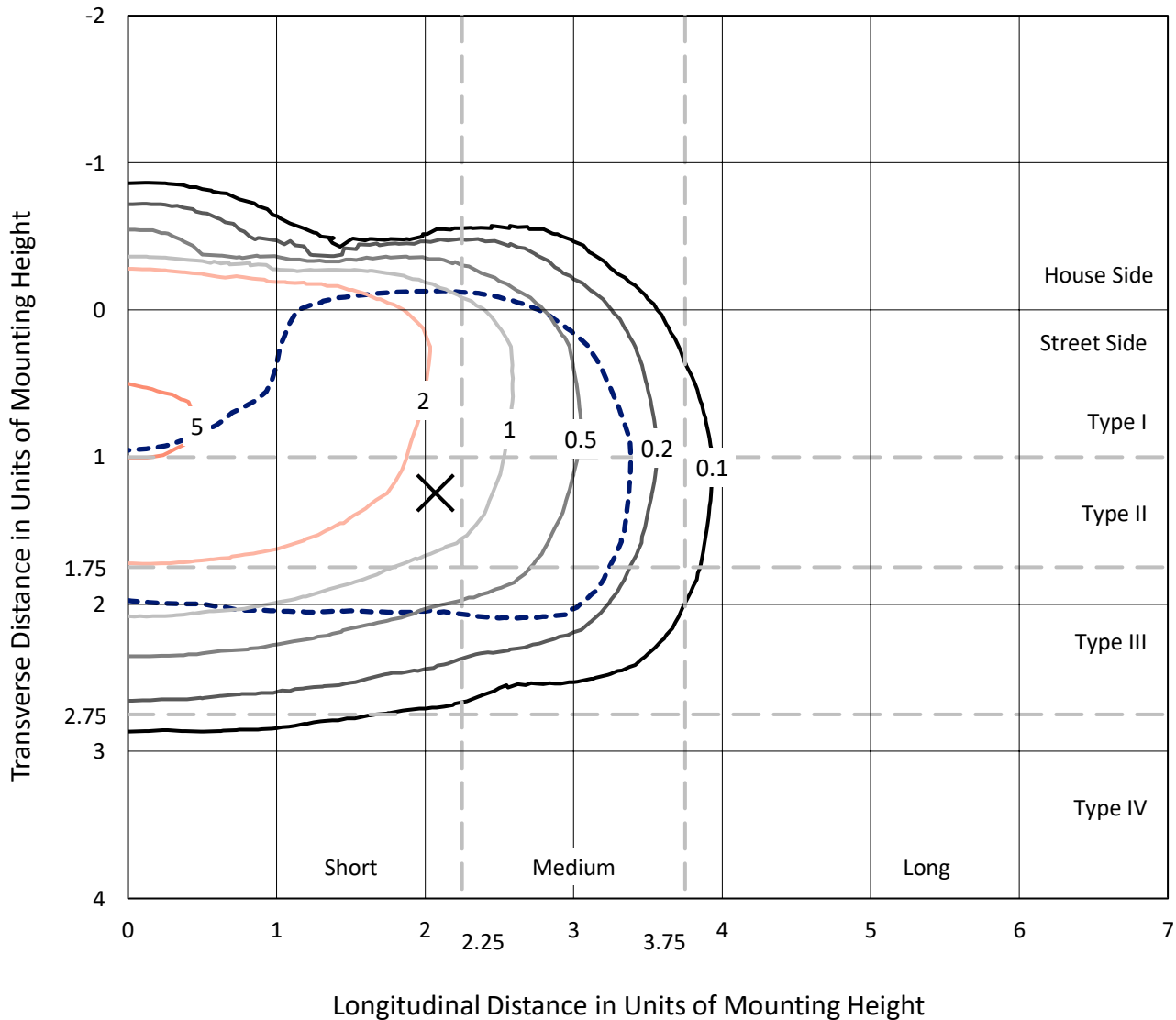
Lumens per Lamp: N/A
Luminaire Lumens: 22199.6 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
Input Voltage (V): 120
Input Current (A_{in}): 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

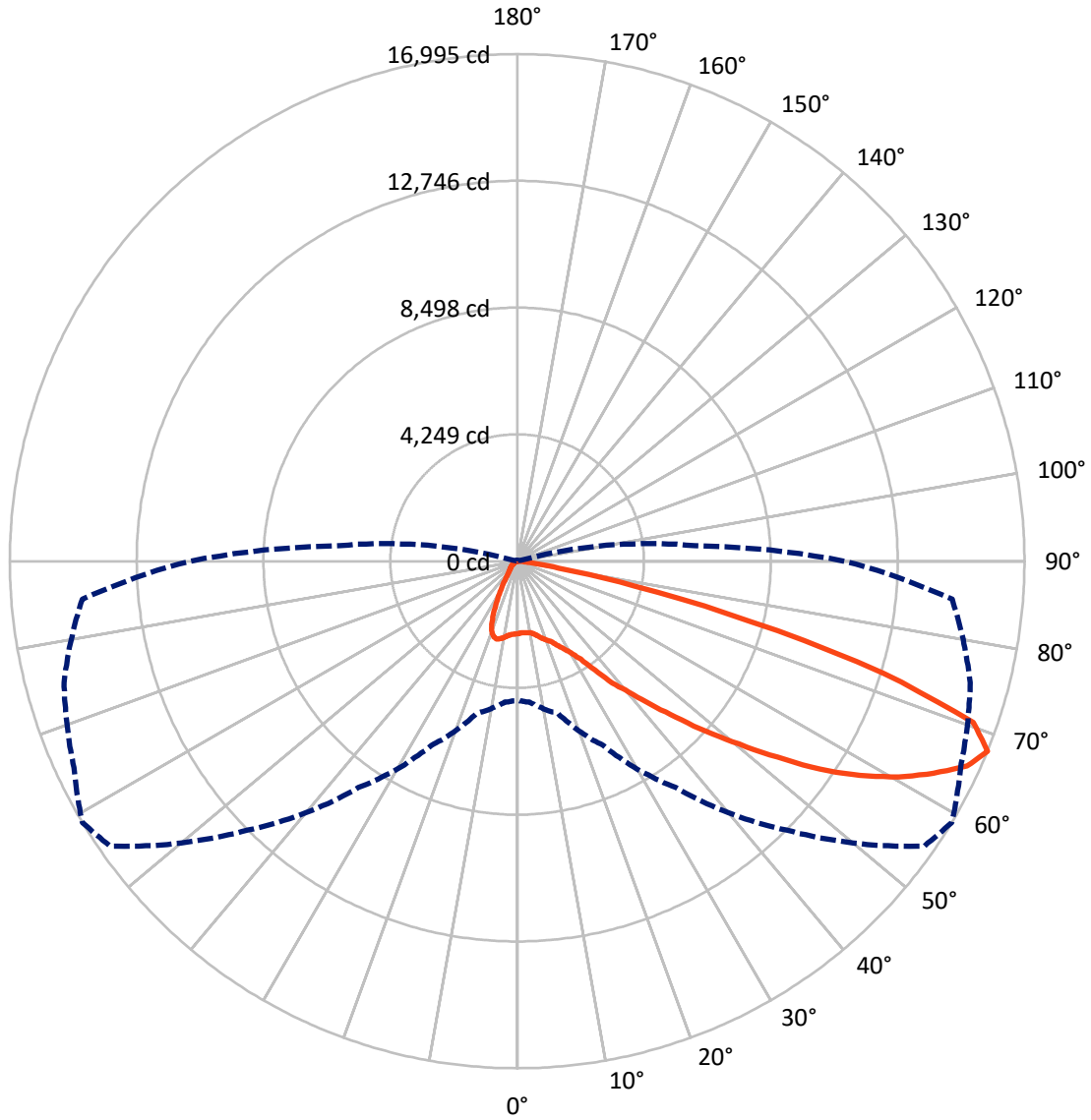
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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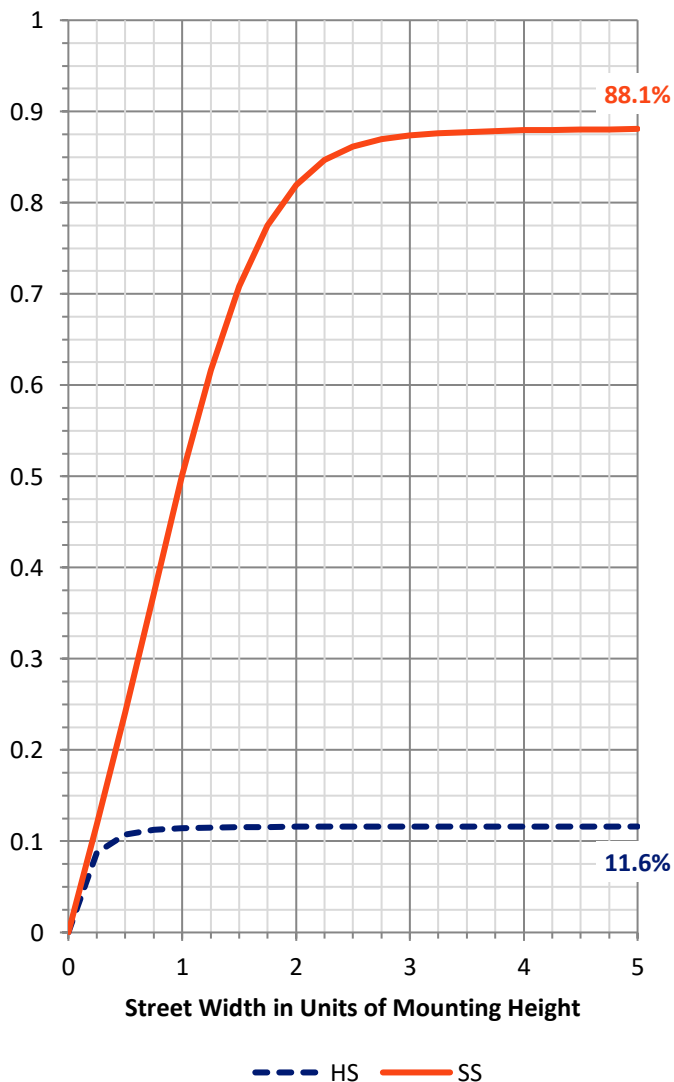
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2607.7	0.0	2607.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	19591.9	0.0	19591.9
	% Fixture	88.3	0.0	88.3
Total	Lumens	22199.6	0.0	22199.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	1.0
10°-20°	668.1	3.0
20°-30°	1167.7	5.3
30°-40°	2055.8	9.3
40°-50°	3634.1	16.4
50°-60°	5754.0	25.9
60°-70°	6382.8	28.8
70°-80°	2214.7	10.0
80°-90°	91.2	0.4
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°	22199.6	100.0
0°-180°	22199.6	100.0

Coefficient of Utilization

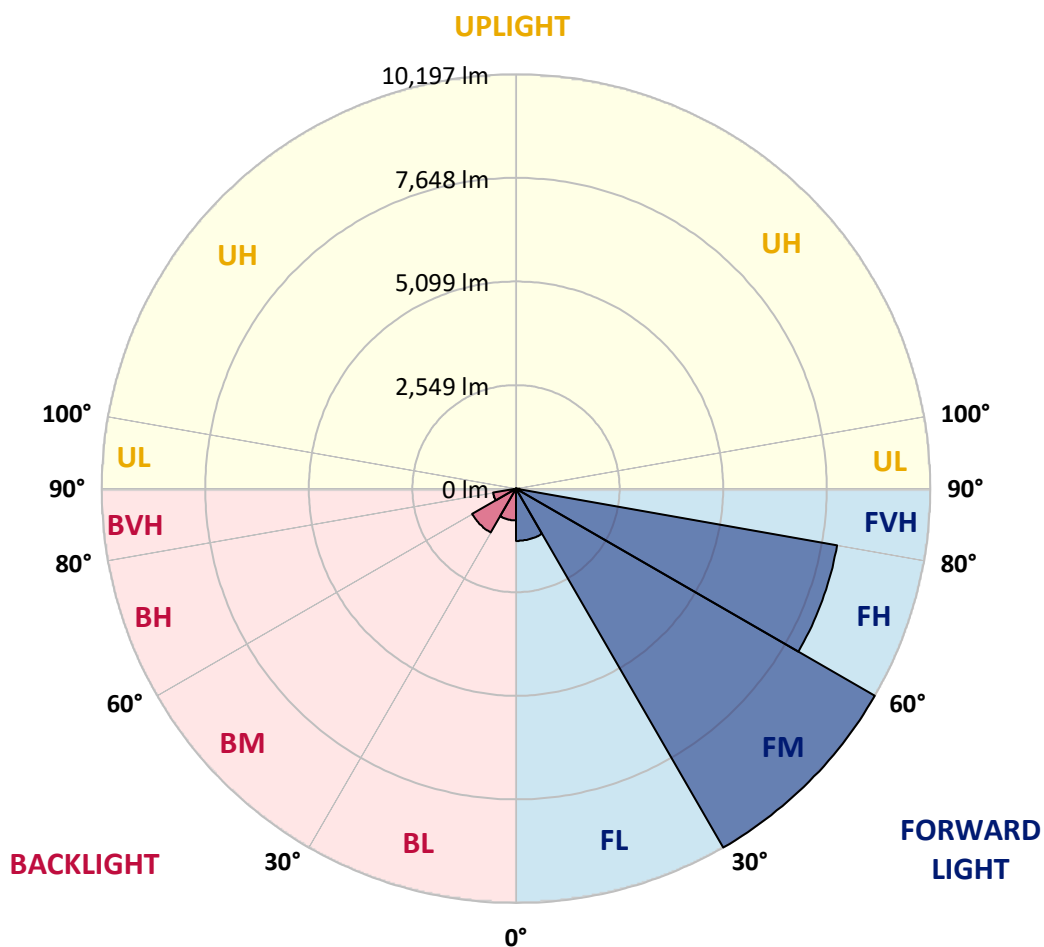


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.5	5.8			
FM (30°-60°)	10197.1	45.9			
FH (60°-80°)	8024.0	36.1			G4/12000
FVH (80°-90°)	85.3	0.4			G1/100
BL (0°-30°)	781.6	3.5	B2/1000		
BM (30°-60°)	1246.8	5.6	B2/2500		
BH (60°-80°)	573.5	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9
2.5°	2364.4	2330.6	2361.3	2364.4	2367.4	2395.0	2425.7	2404.2	2401.2	2425.7	2447.2
5°	2269.3	2254.0	2290.8	2309.2	2339.8	2364.4	2413.4	2416.5	2419.6	2447.2	2484.0
7.5°	2229.4	2192.6	2235.6	2257.0	2278.5	2336.8	2395.0	2425.7	2468.6	2502.4	2539.2
10°	2149.7	2177.3	2189.6	2226.4	2287.7	2355.2	2425.7	2441.0	2536.1	2563.7	2652.6
12.5°	2177.3	2195.7	2220.2	2229.4	2296.9	2398.1	2493.2	2499.3	2597.4	2717.0	2763.0
15°	2247.8	2235.6	2244.8	2257.0	2336.8	2419.6	2572.9	2600.5	2692.5	2827.4	2940.9
17.5°	2398.1	2376.6	2361.3	2358.2	2376.6	2453.3	2634.2	2717.0	2802.9	2986.9	3045.2
20°	2775.3	2756.9	2695.6	2536.1	2480.9	2511.6	2707.8	2824.4	2944.0	3149.4	3244.5
22.5°	3348.7	3367.1	3223.0	2999.2	2769.2	2649.6	2824.4	2925.6	3115.7	3376.3	3462.2
25°	4026.5	3989.7	3814.9	3554.2	3192.4	2910.2	3011.4	3124.9	3357.9	3572.6	3606.3
27.5°	4557.0	4514.1	4379.1	4063.3	3750.5	3293.5	3256.7	3327.3	3603.3	3796.5	3759.7
30°	5081.4	5096.7	5004.7	4630.6	4244.2	3762.7	3529.7	3560.3	3771.9	4020.3	3937.5
32.5°	5749.9	5713.1	5661.0	5332.9	4875.9	4360.7	3962.1	3913.0	4005.0	4333.1	4235.0
35°	6372.4	6351.0	6280.4	5949.2	5550.6	4989.4	4599.9	4489.5	4468.1	4833.0	4661.3
37.5°	6915.2	6878.4	6771.1	6559.5	6173.1	5700.8	5274.6	5176.5	5173.4	5424.8	5093.7
40°	7372.2	7399.8	7387.5	7154.4	6942.8	6565.6	5912.4	5756.0	5743.8	5878.7	5685.5
42.5°	7964.0	8028.4	7994.7	7948.7	7694.1	7547.0	6807.9	6568.7	6461.4	6737.4	6562.6
45°	8859.5	8884.0	8905.5	8792.0	8537.5	8568.1	7734.0	7448.8	7421.2	7832.1	7439.6
47.5°	9696.7	9632.3	9782.5	9788.6	9776.4	9635.3	8733.7	8522.1	8558.9	8871.7	8466.9
50°	9905.2	10070.8	10484.8	10561.4	10760.8	10889.6	9843.8	9632.3	9693.6	10049.3	9586.3
52.5°	10067.7	10319.2	10733.2	11294.4	11831.0	12137.7	11085.8	10914.1	10911.0	11128.8	10490.9
55°	10352.9	10506.2	10865.0	11637.8	12659.0	13161.9	12582.3	12306.3	12057.9	12211.3	11429.3
57.5°	10325.3	10383.6	10941.7	11895.4	13315.3	14229.1	13812.1	13548.3	13229.4	13140.5	12508.7
60°	9840.8	9978.8	10604.4	11720.6	13720.1	15060.2	14959.0	14689.1	14140.2	13931.7	13336.7
62.5°	8880.9	9064.9	9555.6	11107.3	13131.3	15103.1	15750.2	15649.0	15035.6	14661.5	14416.2
65°	7197.4	7283.2	7847.5	9549.5	11800.4	14443.8	16685.5	16559.7	15995.5	15437.4	14971.2
67.5°	4661.3	4744.1	5286.9	6817.1	9267.3	12741.8	16648.7	16995.2	16384.9	15713.4	14624.7
70°	2201.8	2180.4	2686.4	3787.3	5937.0	9730.4	15523.2	16207.1	15688.8	14244.4	12146.9
72.5°	671.6	729.9	1116.2	1677.4	3048.2	6068.8	12168.3	12809.3	12646.7	11380.2	8108.1
75°	297.5	322.0	438.5	686.9	1235.8	2490.1	7516.3	8086.7	8016.1	6712.8	3701.4
77.5°	190.1	208.5	276.0	392.5	561.2	791.2	3462.2	4017.3	3894.6	2358.2	969.1
80°	134.9	144.1	196.3	269.9	352.7	325.1	1192.9	1416.8	1358.5	640.9	260.7
82.5°	73.6	79.7	144.1	199.3	236.1	165.6	334.3	417.1	435.5	285.2	125.7
85°	27.6	33.7	88.9	141.1	122.7	76.7	98.1	119.6	156.4	156.4	58.3
87.5°	0.0	3.1	36.8	61.3	30.7	21.5	27.6	33.7	42.9	73.6	21.5
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°	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9	2434.9
2.5°	2462.5	2441.0	2450.2	2465.6	2431.8	2450.2	2413.4	2441.0	2450.2	2413.4	2431.8
5°	2493.2	2514.6	2502.4	2477.8	2456.4	2462.5	2453.3	2431.8	2450.2	2456.4	2444.1
7.5°	2582.1	2557.6	2563.7	2536.1	2493.2	2490.1	2431.8	2416.5	2422.6	2428.8	2407.3
10°	2664.9	2680.2	2649.6	2628.1	2557.6	2511.6	2431.8	2346.0	2336.8	2300.0	2330.6
12.5°	2812.1	2775.3	2763.0	2692.5	2622.0	2468.6	2296.9	2165.0	2054.6	2014.8	1974.9
15°	2934.8	2928.6	2907.2	2799.8	2637.3	2358.2	2033.2	1726.5	1514.9	1383.0	1364.6
17.5°	3103.4	3075.8	3036.0	2867.3	2523.8	2070.0	1514.9	1128.5	916.9	834.1	803.5
20°	3232.2	3210.8	3155.6	2852.0	2318.4	1542.5	938.4	717.6	665.5	650.1	653.2
22.5°	3419.3	3351.8	3247.6	2775.3	1944.2	1027.3	674.7	640.9	631.7	619.5	622.5
25°	3581.8	3520.5	3302.7	2643.4	1386.1	680.8	625.6	607.2	591.9	576.5	573.5
27.5°	3725.9	3649.3	3361.0	2373.6	867.9	585.7	579.6	558.1	527.5	502.9	493.7
30°	3867.0	3778.1	3376.3	1867.6	585.7	530.5	515.2	481.5	441.6	407.9	401.7
32.5°	4103.1	3995.8	3354.9	1334.0	506.0	472.3	438.5	398.7	340.4	312.8	306.7
35°	4471.1	4308.6	3327.3	785.1	453.9	417.1	364.9	312.8	269.9	242.3	236.1
37.5°	4894.3	4612.2	3247.6	524.4	417.1	368.0	300.5	248.4	211.6	190.1	184.0
40°	5523.0	5056.9	2940.9	429.3	371.1	312.8	242.3	196.3	168.7	153.3	147.2
42.5°	6216.0	5565.9	2468.6	386.4	328.1	266.8	193.2	159.5	138.0	122.7	122.7
45°	7047.1	6096.4	1904.4	352.7	291.3	220.8	159.5	128.8	110.4	98.1	92.0
47.5°	7973.2	6577.9	1284.9	318.9	245.3	180.9	131.9	98.1	79.7	70.5	70.5
50°	8801.2	7004.2	818.8	279.1	214.7	150.3	107.3	79.7	64.4	52.1	49.1
52.5°	9552.5	7329.2	564.3	245.3	184.0	122.7	88.9	64.4	49.1	39.9	39.9
55°	10322.2	7494.8	417.1	211.6	159.5	104.3	73.6	58.3	42.9	33.7	30.7
57.5°	10954.0	7565.4	318.9	184.0	134.9	82.8	64.4	49.1	36.8	27.6	24.5
60°	11493.7	7531.6	248.4	153.3	107.3	70.5	55.2	39.9	30.7	21.5	18.4
62.5°	11809.6	7329.2	196.3	131.9	85.9	61.3	46.0	33.7	21.5	15.3	12.3
65°	11815.7	6899.9	153.3	98.1	64.4	52.1	39.9	27.6	15.3	6.1	3.1
67.5°	10969.3	5970.7	122.7	76.7	52.1	39.9	30.7	21.5	6.1	0.0	0.0
70°	8580.4	4517.1	101.2	61.3	42.9	33.7	21.5	12.3	3.1	0.0	0.0
72.5°	5467.8	2704.8	82.8	49.1	36.8	24.5	15.3	9.2	0.0	0.0	0.0
75°	2287.7	834.1	64.4	42.9	27.6	18.4	12.3	3.1	0.0	0.0	0.0
77.5°	588.8	263.7	52.1	36.8	27.6	15.3	9.2	3.1	0.0	0.0	0.0
80°	174.8	98.1	42.9	30.7	21.5	12.3	6.1	3.1	0.0	0.0	0.0
82.5°	79.7	58.3	36.8	27.6	18.4	12.3	6.1	0.0	0.0	0.0	0.0
85°	30.7	18.4	18.4	15.3	15.3	9.2	3.1	0.0	0.0	0.0	0.0
87.5°	12.3	6.1	6.1	6.1	3.1	3.1	0.0	0.0	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)