

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: P480651

Luminaire Tested: **IFLD-S-SA2E-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480651
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

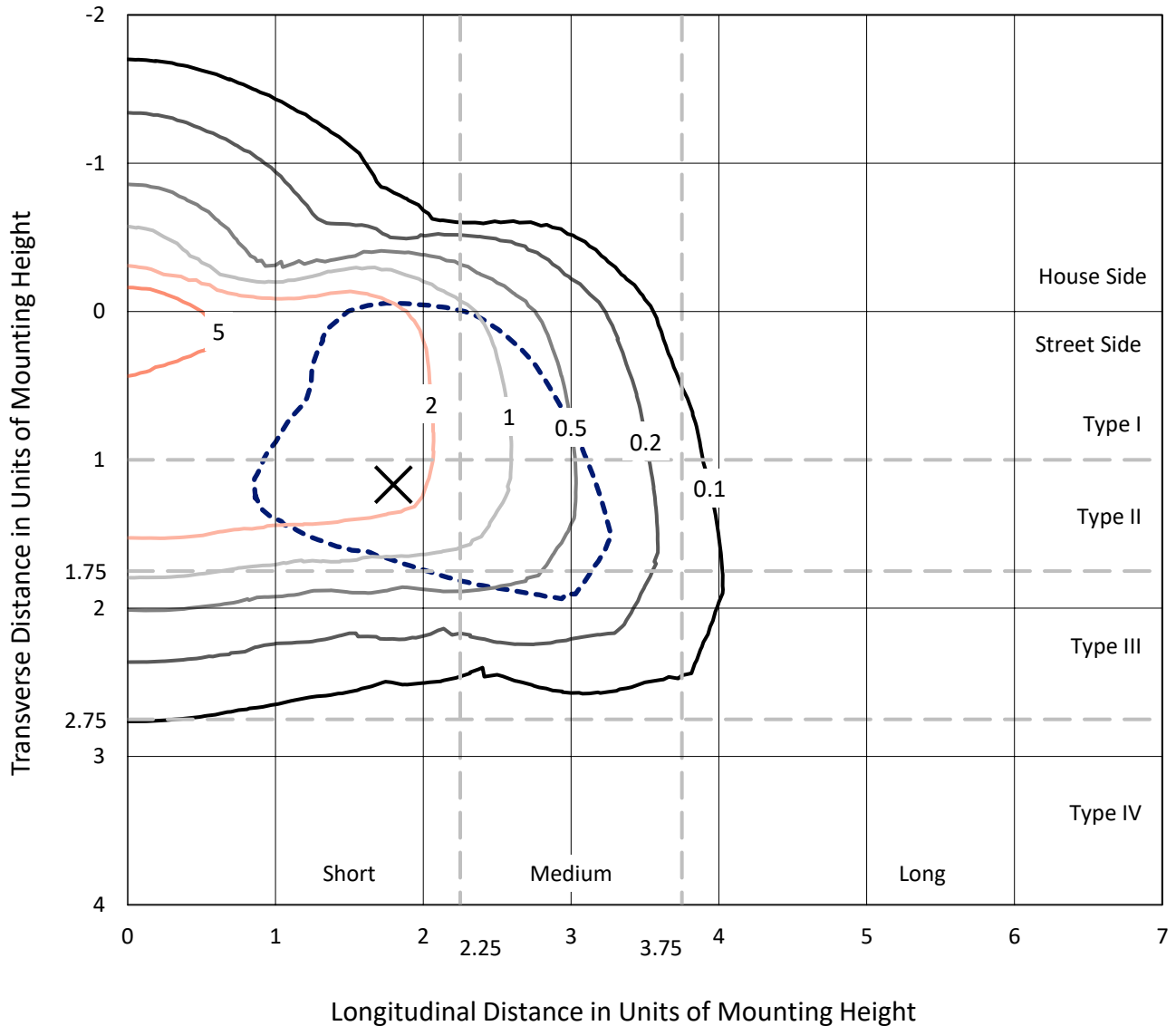
Lumens per Lamp: N/A
Luminaire Lumens: 14190.8 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

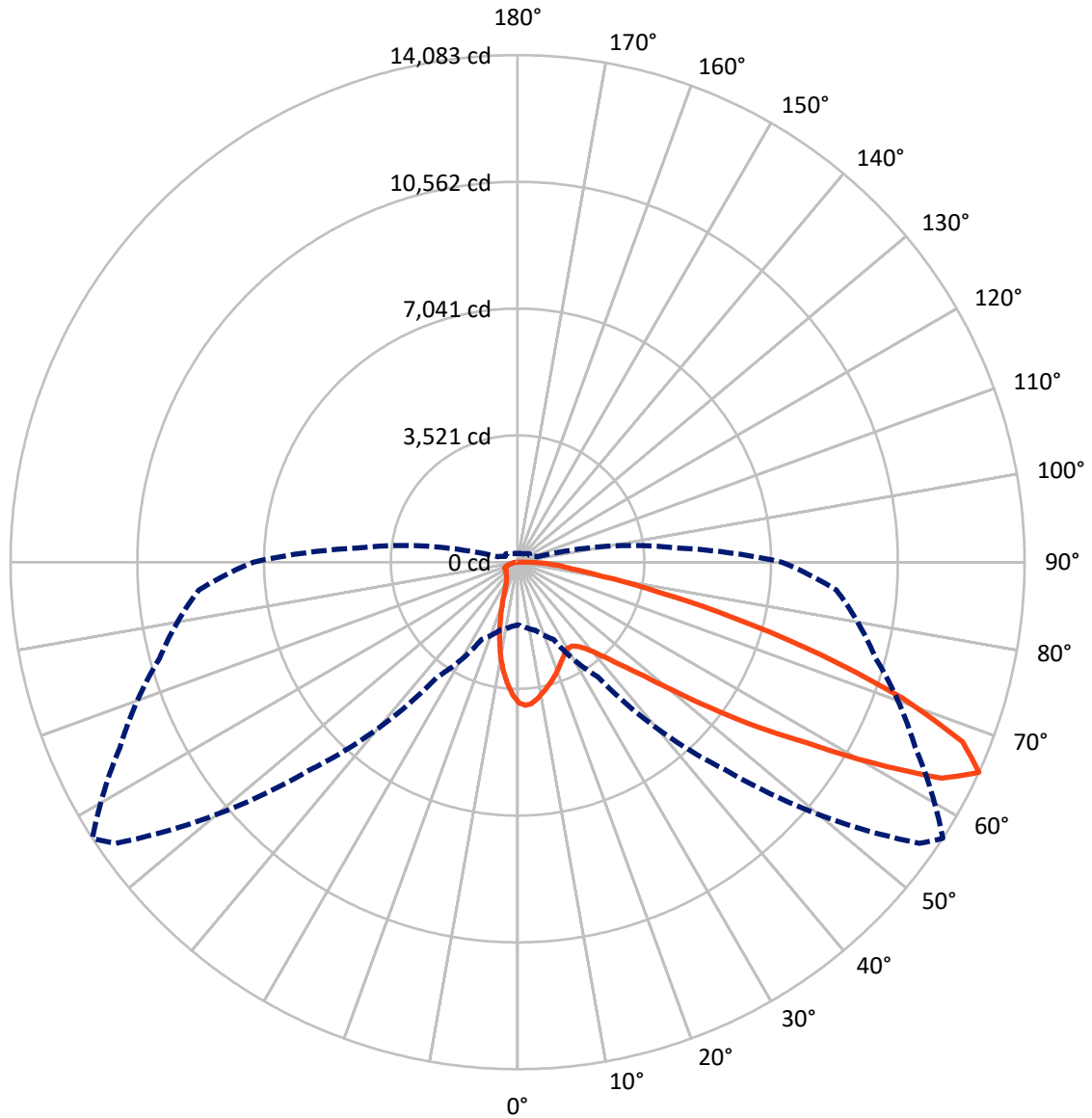
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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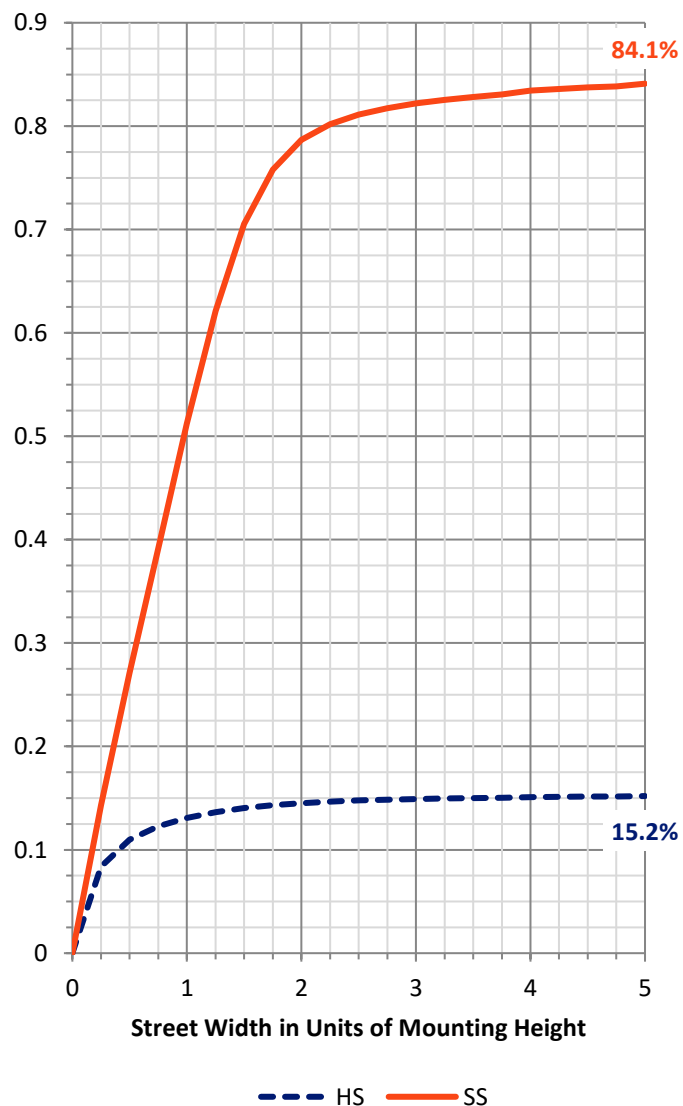
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2176.3	0.0	2176.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	12014.5	0.0	12014.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	14190.8	0.0	14190.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.8	2.3
10°-20°	703.3	5.0
20°-30°	909.3	6.4
30°-40°	1223.6	8.6
40°-50°	1951.1	13.7
50°-60°	3446.1	24.3
60°-70°	3791.2	26.7
70°-80°	1585.9	11.2
80°-90°	253.5	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°	14190.8	100.0
0°-180°	14190.8	100.0

Coefficient of Utilization



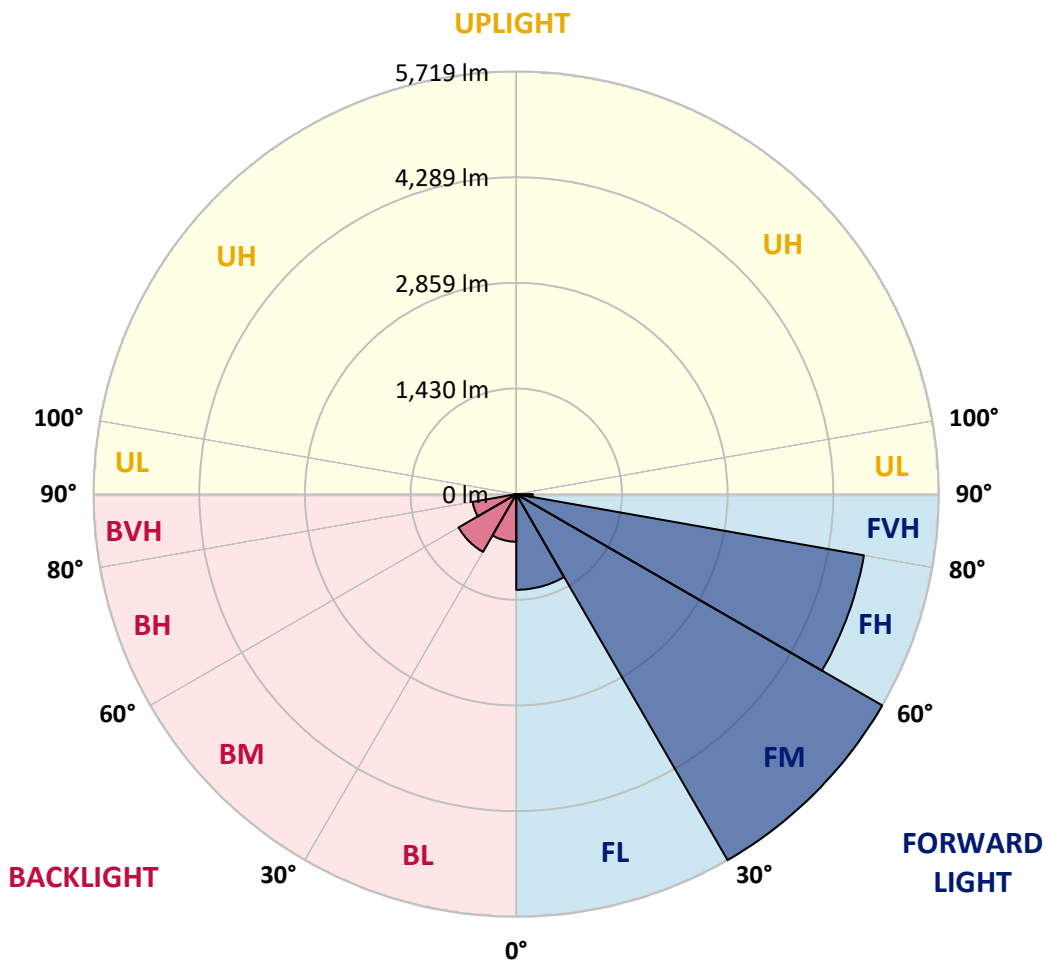
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.9	9.1			
FM (30°-60°)	5718.9	40.3			
FH (60°-80°)	4777.1	33.7			G2/5000
FVH (80°-90°)	223.7	1.6			G2/225
BL (0°-30°)	644.5	4.5	B2/1000		
BM (30°-60°)	902.0	6.4	B1/1000		
BH (60°-80°)	600.1	4.2	B2/1000		G2/1000
BVH (80°-90°)	29.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3
2.5°	4007.7	4014.1	4014.1	4026.8	3983.7	4004.5	4001.3	3982.1	3988.5	3955.0	3921.4
5°	3894.3	3889.5	3915.1	3918.2	3951.8	3961.4	3969.3	3956.6	3959.8	3886.3	3854.4
7.5°	3603.7	3602.1	3645.2	3681.9	3752.2	3817.7	3860.8	3848.0	3865.6	3819.3	3744.2
10°	3258.8	3295.5	3340.3	3377.0	3506.3	3589.3	3701.1	3712.3	3779.3	3768.2	3632.4
12.5°	3000.2	3016.1	3049.7	3155.0	3273.2	3410.5	3570.2	3584.5	3650.0	3681.9	3563.8
15°	2787.8	2802.2	2845.3	2923.5	3056.0	3218.9	3421.7	3458.4	3589.3	3600.5	3474.4
17.5°	2632.9	2644.1	2672.8	2751.1	2859.7	3068.8	3260.4	3325.9	3498.3	3552.6	3381.8
20°	2572.2	2548.3	2564.3	2613.8	2722.3	2883.6	3131.1	3188.6	3408.9	3515.9	3293.9
22.5°	2545.1	2524.3	2533.9	2530.7	2617.0	2731.9	2992.2	3052.8	3324.3	3472.8	3215.7
25°	2565.9	2565.9	2556.3	2548.3	2557.9	2632.9	2842.1	2936.3	3210.9	3436.1	3135.9
27.5°	2677.6	2634.5	2639.3	2605.8	2596.2	2596.2	2775.0	2830.9	3174.2	3415.3	3070.4
30°	2749.5	2770.2	2771.8	2722.3	2672.8	2583.4	2712.8	2767.0	3143.9	3440.8	3032.1
32.5°	2933.1	2923.5	2896.4	2886.8	2813.3	2712.8	2743.1	2779.8	3126.3	3498.3	3043.3
35°	3116.7	3111.9	3113.5	3108.7	3032.1	2883.6	2824.5	2874.0	3158.2	3598.9	3081.6
37.5°	3306.7	3319.5	3373.8	3373.8	3292.4	3131.1	3052.8	3038.5	3274.8	3763.4	3172.6
40°	3496.7	3528.7	3597.3	3705.9	3590.9	3440.8	3314.7	3292.4	3415.3	3983.7	3391.3
42.5°	3678.7	3731.4	3867.2	4028.4	3990.1	3840.0	3672.4	3646.8	3704.3	4311.0	3696.3
45°	3911.9	3956.6	4170.5	4418.0	4470.7	4338.2	4141.8	4121.0	4117.8	4790.0	4116.2
47.5°	4266.3	4314.2	4528.2	4777.3	4940.1	4960.9	4740.5	4718.2	4641.5	5436.7	4731.0
50°	4710.2	4788.4	4968.9	5259.5	5495.8	5717.7	5655.4	5590.0	5439.9	6188.7	5510.1
52.5°	5034.3	5130.1	5374.4	5746.4	6163.2	6516.0	6739.6	6739.6	6394.7	7014.2	6447.4
55°	5120.5	5178.0	5486.2	6024.3	6738.0	7630.5	8098.4	8063.2	7531.5	7882.8	7537.9
57.5°	4777.3	4852.3	5225.9	5789.6	7039.8	8673.2	9447.5	9455.5	8773.8	8891.9	8614.1
60°	3832.0	3856.0	4296.7	5050.3	6749.2	9513.0	11290.1	11320.5	10186.8	9790.8	9161.7
62.5°	2648.9	2725.5	3057.6	3718.7	5591.6	9418.8	13067.2	13217.3	11318.9	10265.0	9248.0
65°	1743.6	1789.9	1967.1	2369.5	3892.7	8163.8	13619.7	14082.7	12184.3	10292.2	8887.1
67.5°	1264.6	1272.6	1325.2	1532.8	2339.1	5871.0	12676.0	13329.1	12508.4	10065.5	8040.9
70°	1021.9	1028.3	1047.4	1179.9	1510.5	3674.0	10338.5	11362.0	11536.0	8990.9	6476.1
72.5°	830.3	838.3	862.2	986.7	1245.4	2043.7	7560.3	8807.3	9383.7	6651.8	4304.6
75°	653.0	659.4	716.9	839.9	1170.4	1403.5	5015.2	6236.6	6314.9	3887.9	2015.0
77.5°	447.1	458.2	528.5	712.1	1101.7	1227.8	3126.3	3994.9	3584.5	1521.6	693.0
80°	284.2	300.2	341.7	539.7	974.0	1172.0	1944.8	2385.4	1569.5	520.5	333.7
82.5°	167.7	183.6	225.1	349.7	764.8	1087.3	1370.0	1492.9	736.1	266.6	201.2
85°	92.6	103.8	135.7	210.8	448.7	966.0	1096.9	1071.4	421.5	142.1	126.1
87.5°	30.3	35.1	49.5	84.6	185.2	455.1	657.8	617.9	218.7	65.5	49.5
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°	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3	3902.3
2.5°	3899.1	3894.3	3822.4	3768.2	3675.6	3598.9	3568.6	3527.1	3525.5	3495.1	3487.1
5°	3804.9	3755.4	3645.2	3539.8	3375.4	3265.2	3164.6	3094.4	3065.6	3003.4	2989.0
7.5°	3683.5	3618.1	3448.8	3250.8	3057.6	2885.2	2728.7	2572.2	2484.4	2454.1	2420.6
10°	3557.4	3442.4	3191.8	2969.8	2700.0	2434.9	2189.0	1968.7	1849.0	1764.3	1727.6
12.5°	3456.8	3303.5	2984.2	2652.1	2296.0	1941.6	1655.8	1424.2	1288.5	1224.7	1195.9
15°	3343.4	3140.7	2757.5	2337.5	1893.7	1491.3	1211.9	1029.9	975.6	945.2	940.4
17.5°	3223.7	2989.0	2511.6	2027.8	1500.9	1122.5	942.0	868.6	844.6	831.9	825.5
20°	3111.9	2853.3	2259.3	1682.9	1175.2	900.5	815.9	777.6	776.0	782.4	780.8
22.5°	2953.9	2676.0	2010.2	1363.6	938.8	784.0	729.7	720.1	729.7	737.7	740.9
25°	2864.4	2530.7	1732.4	1082.5	776.0	696.2	678.6	675.4	689.8	699.3	697.7
27.5°	2771.8	2380.6	1473.7	867.0	680.2	633.9	630.7	633.9	648.3	662.6	661.0
30°	2700.0	2260.9	1231.0	724.9	606.7	589.2	586.0	589.2	597.2	598.8	598.8
32.5°	2640.9	2118.8	1025.1	629.1	562.0	547.7	550.9	549.3	550.9	552.5	554.0
35°	2605.8	2034.2	855.8	570.0	525.3	514.1	512.5	507.7	509.3	510.9	509.3
37.5°	2680.8	1992.7	721.7	528.5	499.8	490.2	487.0	483.8	479.0	479.0	479.0
40°	2794.2	1970.3	640.3	501.4	480.6	469.4	459.8	456.7	456.7	458.2	459.8
42.5°	3019.3	2007.0	584.4	480.6	456.7	443.9	434.3	435.9	440.7	445.5	442.3
45°	3345.0	2118.8	558.8	464.6	442.3	424.7	418.3	416.7	421.5	429.5	435.9
47.5°	3771.4	2292.8	549.3	450.3	432.7	408.7	400.8	405.6	411.9	423.1	418.3
50°	4469.1	2684.0	557.2	437.5	418.3	400.8	391.2	386.4	391.2	399.2	402.4
52.5°	5380.8	3394.5	587.6	431.1	408.7	394.4	378.4	370.4	375.2	381.6	381.6
55°	6471.3	4365.3	672.2	423.1	392.8	384.8	367.2	351.3	354.5	354.5	352.9
57.5°	7432.5	5098.2	772.8	411.9	383.2	372.0	349.7	330.5	327.3	328.9	330.5
60°	7863.6	5293.0	820.7	408.7	383.2	356.1	325.7	306.6	301.8	298.6	298.6
62.5°	7788.6	4956.1	723.3	394.4	392.8	343.3	303.4	282.6	276.2	269.8	271.4
65°	7335.1	4475.5	570.0	375.2	394.4	335.3	281.0	260.3	249.1	241.1	239.5
67.5°	6506.5	3820.9	451.9	360.8	378.4	320.9	261.9	237.9	228.3	220.3	217.1
70°	5090.2	2995.4	392.8	341.7	340.1	285.8	239.5	218.7	204.4	194.8	194.8
72.5°	3300.3	1893.7	336.9	303.4	293.8	239.5	207.6	194.8	183.6	175.6	175.6
75°	1494.5	879.8	271.4	253.9	239.5	191.6	175.6	169.2	159.7	151.7	151.7
77.5°	536.5	375.2	202.8	199.6	178.8	148.5	142.1	137.3	130.9	122.9	122.9
80°	300.2	237.9	151.7	145.3	124.5	110.2	102.2	102.2	99.0	94.2	92.6
82.5°	190.0	154.9	111.8	97.4	81.4	73.4	70.3	68.7	67.1	60.7	59.1
85°	119.8	105.4	73.4	57.5	47.9	36.7	35.1	33.5	30.3	27.1	27.1
87.5°	54.3	60.7	28.7	17.6	12.8	8.0	4.8	1.6	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)