

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: P483135

Luminaire Tested: **IFLD-L-SA7B-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483135
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

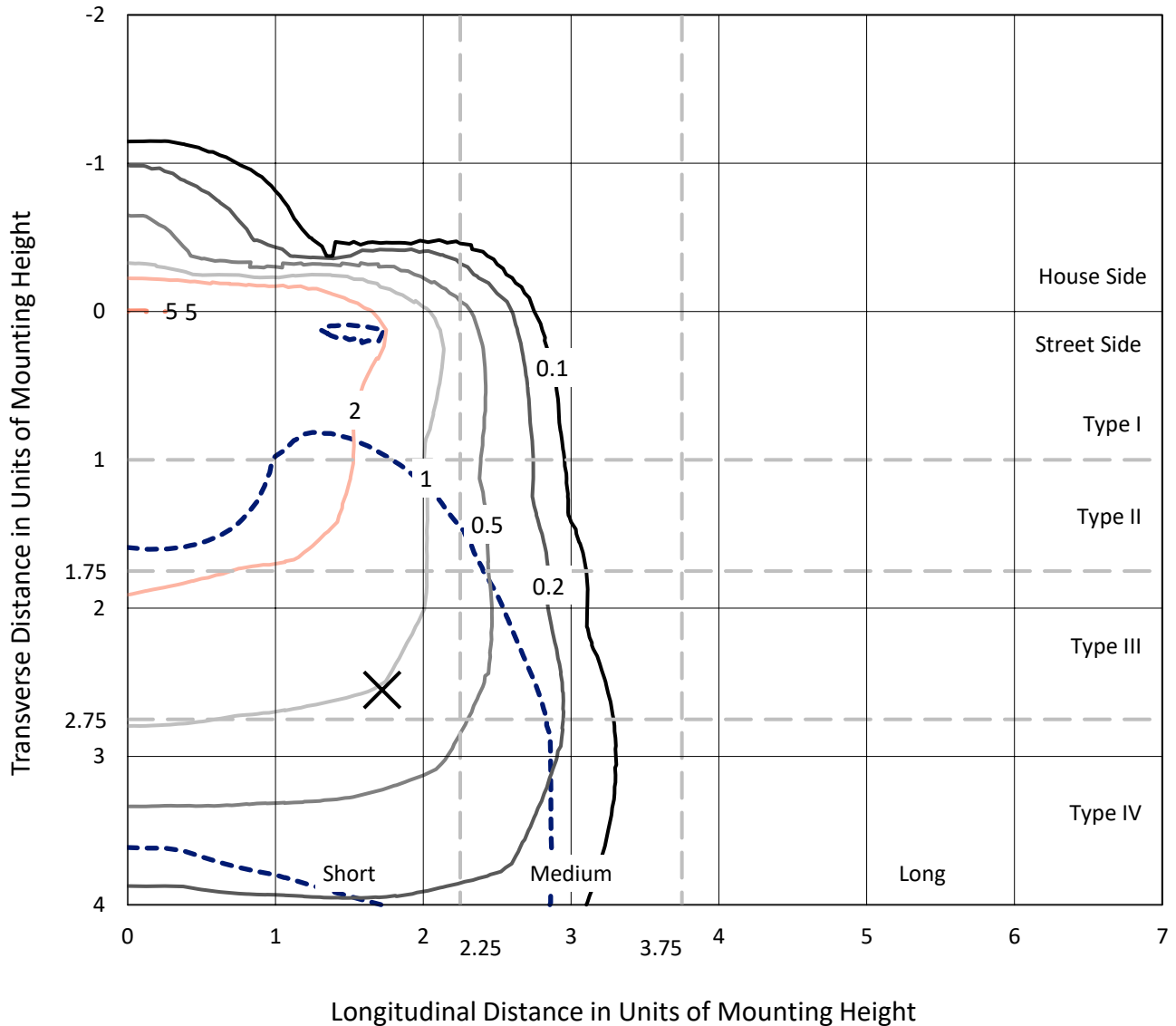
Lumens per Lamp: N/A
Luminaire Lumens: 21535.3 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

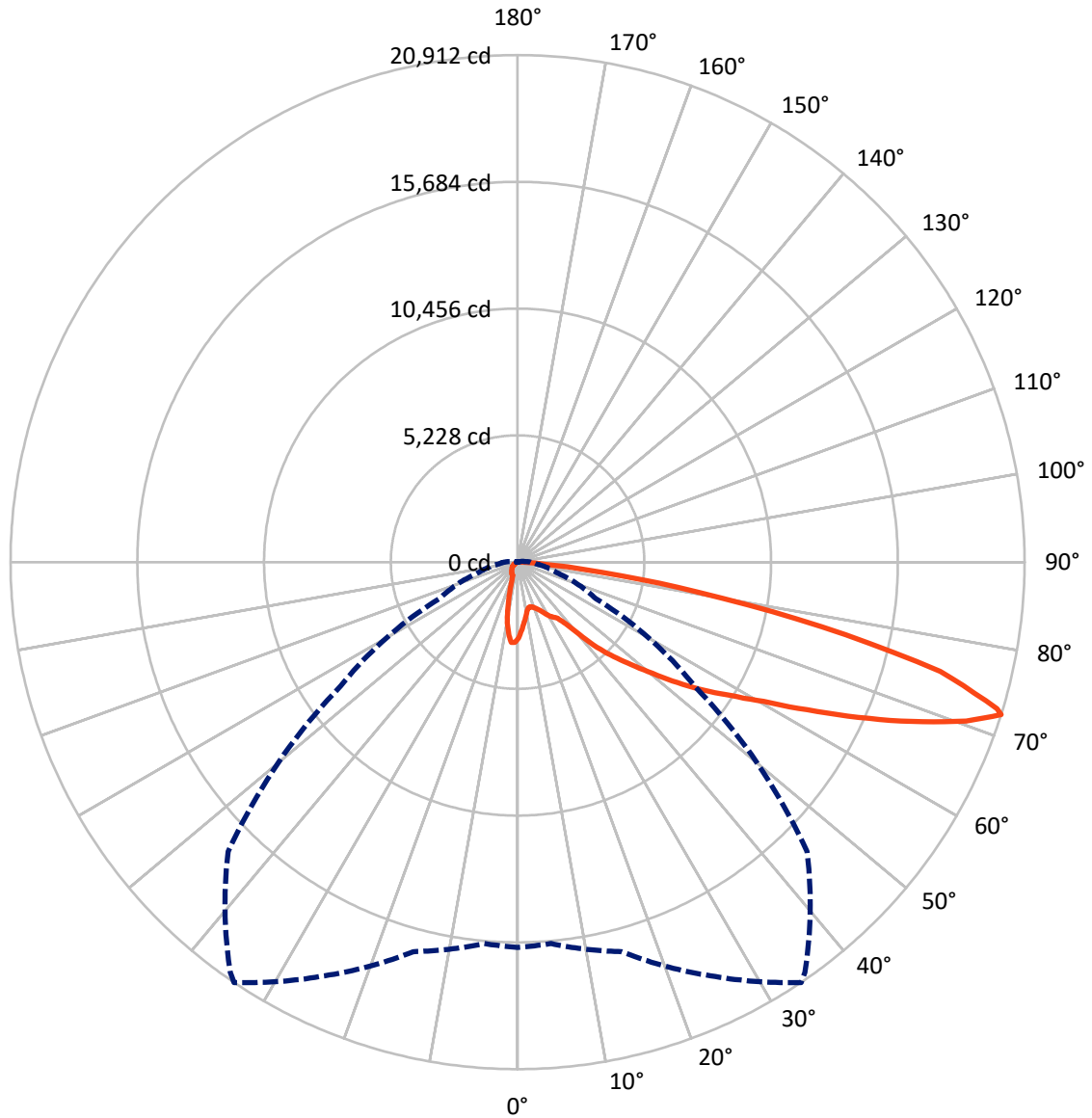
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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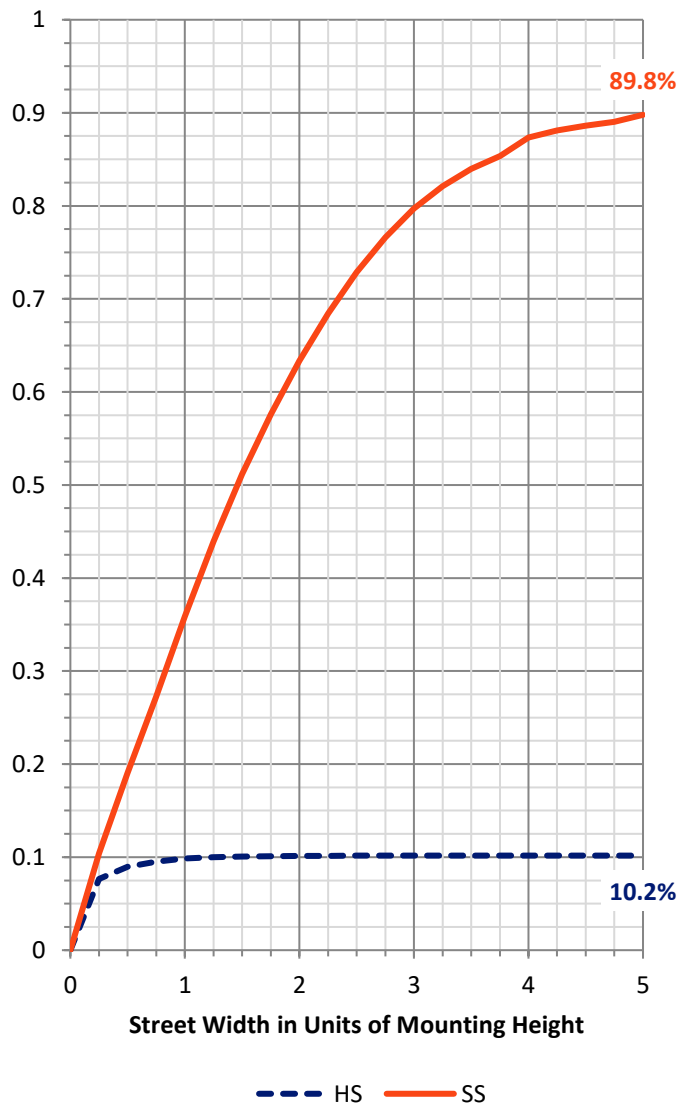
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2204.7	0.0	2204.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	19330.6	0.0	19330.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	21535.3	0.0	21535.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	1.3
10°-20°	619.2	2.9
20°-30°	934.6	4.3
30°-40°	1516.7	7.0
40°-50°	2852.1	13.2
50°-60°	4663.2	21.7
60°-70°	6199.1	28.8
70°-80°	4151.5	19.3
80°-90°	325.3	1.5
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°	21535.3	100.0
0°-180°	21535.3	100.0

Coefficient of Utilization



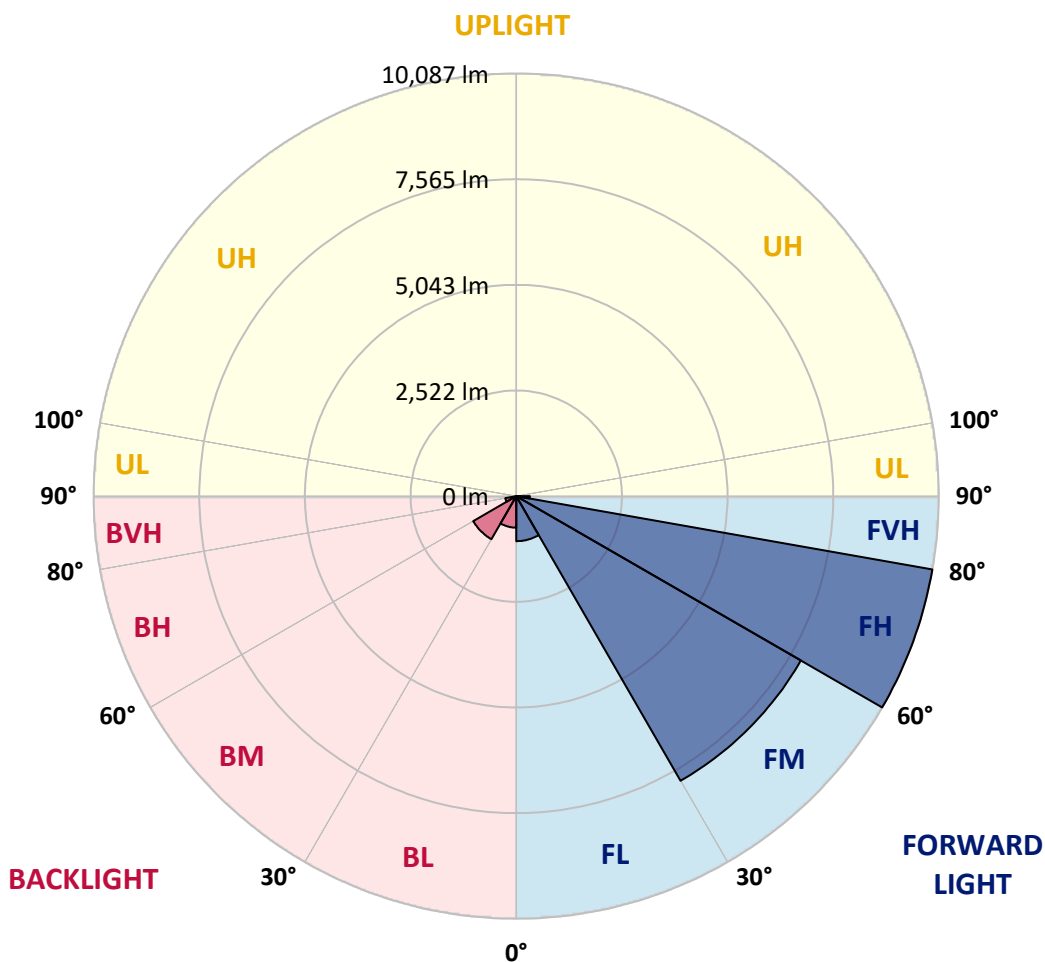
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1075.1	5.0			
FM (30°-60°)	7845.3	36.4			
FH (60°-80°)	10086.9	46.8			G4/12000
FVH (80°-90°)	323.3	1.5			G3/500
BL (0°-30°)	752.2	3.5	B2/1000		
BM (30°-60°)	1186.8	5.5	B2/2500		
BH (60°-80°)	263.6	1.2	B1/500		G1/500
BVH (80°-90°)	2.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6
2.5°	2786.4	2780.1	2798.8	2830.0	2861.1	2848.6	2907.8	2970.1	3013.6	3072.8	3144.4
5°	2434.6	2450.1	2468.8	2531.1	2571.6	2580.9	2689.9	2770.8	2904.7	3041.7	3169.3
7.5°	2113.9	2132.6	2169.9	2238.4	2322.5	2344.3	2453.3	2615.1	2789.5	2970.1	3178.6
10°	1880.4	1899.1	1939.6	1983.2	2095.2	2095.2	2244.7	2468.8	2696.1	2907.8	3181.8
12.5°	1830.6	1839.9	1836.8	1871.1	1942.7	1958.2	2104.6	2350.5	2615.1	2886.0	3231.6
15°	1889.8	1896.0	1864.8	1846.2	1908.4	1924.0	2061.0	2278.9	2562.2	2898.5	3312.5
17.5°	2008.1	1986.3	1924.0	1896.0	1948.9	1958.2	2085.9	2275.8	2556.0	2932.7	3405.9
20°	2076.5	2101.5	1992.5	1939.6	2014.3	2026.7	2163.7	2325.6	2587.1	2991.9	3536.7
22.5°	2198.0	2210.4	2064.1	2029.9	2101.5	2101.5	2257.1	2425.2	2661.8	3088.4	3692.3
25°	2369.2	2353.6	2182.4	2148.2	2216.6	2244.7	2400.3	2584.0	2777.0	3178.6	3835.5
27.5°	2503.1	2512.4	2372.3	2282.0	2397.2	2415.9	2584.0	2755.2	2864.2	3253.4	4009.9
30°	2702.3	2683.6	2534.2	2431.5	2574.7	2577.8	2739.7	2917.1	3032.3	3387.2	4271.4
32.5°	2938.9	2901.6	2730.3	2584.0	2699.2	2727.2	2892.2	3150.6	3293.8	3639.4	4676.1
35°	3440.2	3349.9	3069.7	2842.4	2851.8	2864.2	3119.5	3490.0	3655.0	3960.1	5217.8
37.5°	4171.8	4134.4	3816.9	3384.1	3219.1	3181.8	3468.2	3938.3	4143.8	4383.5	5921.4
40°	4897.2	4844.2	4548.5	4221.6	3922.7	3848.0	3991.2	4532.9	4719.7	4971.9	6643.7
42.5°	5703.5	5610.1	5261.4	4996.8	4810.0	4729.1	4673.0	5280.1	5491.8	5663.0	7350.4
45°	6519.2	6366.6	5862.3	5659.9	5560.3	5516.7	5510.5	6220.3	6348.0	6382.2	8135.0
47.5°	7235.2	7070.2	6612.6	6385.3	6310.6	6298.1	6646.8	7303.7	7204.1	7113.8	9009.8
50°	7786.3	7680.4	7350.4	7269.5	7213.4	7191.6	8007.3	8418.3	7957.5	7798.7	9778.8
52.5°	8639.3	8402.7	8029.1	8057.1	8253.3	8256.4	9386.5	9476.8	8583.3	8268.8	10504.2
55°	9321.1	9165.5	8860.4	8819.9	9336.7	9392.7	10622.5	10280.0	8932.0	8717.2	10771.9
57.5°	10124.3	10052.7	9831.7	9837.9	10379.6	10497.9	11721.5	10958.7	9221.5	9006.7	10812.4
60°	11285.6	11080.1	10964.9	11017.9	11656.1	11771.3	12786.2	11447.5	9361.6	9196.6	10712.8
62.5°	12568.3	12328.5	12204.0	12474.9	13405.7	13424.4	13595.6	11880.2	9274.4	9246.4	10071.4
65°	14112.4	13875.8	13776.2	14321.0	15426.2	15357.8	14732.0	12063.9	8997.3	8745.2	8387.1
67.5°	15650.4	15507.2	15301.7	16170.3	17546.4	17546.4	15911.9	11995.4	8272.0	7020.4	5485.6
70°	16378.9	16478.5	16805.4	18169.0	19629.2	19479.7	17076.3	11207.8	6158.0	3770.2	2157.5
72°	15893.2	15790.5	16634.2	18822.8	20911.8	20665.9	16880.1	8910.2	3558.5	1653.1	750.3
72.5°	15058.9	15155.4	16316.6	18732.5	20672.1	20874.5	16400.7	8219.0	2926.5	1316.9	566.6
75°	9234.0	9399.0	12179.1	15905.7	18013.4	17786.1	12686.6	3916.5	1123.9	560.4	202.4
77.5°	3371.7	3508.7	5909.0	10009.2	12811.1	12667.9	7341.1	1391.6	610.2	417.2	102.7
80°	877.9	949.5	2008.1	4617.0	7534.1	7543.4	3072.8	557.3	414.1	342.5	62.3
82.5°	174.3	193.0	616.4	1796.4	3521.1	3474.4	971.3	298.9	311.3	280.2	43.6
85°	21.8	28.0	130.8	610.2	1139.5	1021.2	239.7	149.4	230.4	217.9	28.0
87.5°	3.1	3.1	31.1	140.1	239.7	233.5	49.8	46.7	102.7	133.9	15.6
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°	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6	3150.6
2.5°	3184.9	3197.3	3240.9	3278.3	3321.9	3334.3	3315.6	3346.8	3303.2	3328.1	3334.3
5°	3191.1	3262.7	3343.6	3396.6	3384.1	3353.0	3328.1	3244.0	3184.9	3163.1	3209.8
7.5°	3234.7	3315.6	3402.8	3402.8	3334.3	3172.4	3016.8	2867.3	2742.8	2680.5	2733.4
10°	3290.7	3374.8	3465.1	3346.8	3091.5	2795.7	2574.7	2294.5	2104.6	2004.9	2014.3
12.5°	3365.4	3483.7	3514.9	3240.9	2817.5	2378.5	1976.9	1587.8	1407.2	1264.0	1267.1
15°	3462.0	3577.1	3483.7	3010.5	2468.8	1821.3	1338.7	968.2	825.0	750.3	750.3
17.5°	3589.6	3676.8	3474.4	2798.8	1998.7	1245.3	821.9	653.8	622.7	610.2	610.2
20°	3739.0	3804.4	3384.1	2468.8	1485.0	800.1	604.0	585.3	588.4	582.2	582.2
22.5°	3907.2	3928.9	3281.4	2085.9	1005.6	591.5	563.5	566.6	569.7	563.5	566.6
25°	4084.6	4025.5	3131.9	1637.6	669.4	538.6	544.8	551.0	554.2	557.3	557.3
27.5°	4283.9	4165.6	2923.4	1198.6	523.0	507.5	526.1	544.8	547.9	547.9	544.8
30°	4576.5	4380.4	2721.0	812.6	460.8	473.2	504.3	526.1	541.7	541.7	538.6
32.5°	4947.0	4604.5	2437.7	554.2	426.5	432.7	457.7	501.2	535.5	538.6	529.3
35°	5460.7	4875.4	2141.9	442.1	401.6	404.7	420.3	454.5	513.7	532.4	529.3
37.5°	6002.4	5183.6	1774.6	398.5	382.9	379.8	389.2	417.2	470.1	516.8	519.9
40°	6578.3	5507.4	1388.5	376.7	367.4	361.1	364.3	376.7	417.2	476.3	488.8
42.5°	7120.0	5800.0	1042.9	354.9	351.8	345.6	345.6	348.7	370.5	411.0	417.2
45°	7705.3	6039.7	793.9	339.3	330.0	333.1	320.7	314.4	330.0	333.1	330.0
47.5°	8253.3	6279.5	635.1	320.7	311.3	311.3	295.8	283.3	283.3	255.3	252.2
50°	8767.0	6410.2	507.5	295.8	292.6	289.5	267.7	245.9	227.3	193.0	186.8
52.5°	9193.5	6404.0	392.3	264.6	274.0	264.6	230.4	199.2	171.2	140.1	133.9
55°	9321.1	6105.1	295.8	217.9	233.5	221.0	183.7	155.7	124.5	99.6	96.5
57.5°	9212.2	5650.6	224.2	168.1	180.6	168.1	140.1	115.2	87.2	68.5	62.3
60°	8847.9	5118.2	174.3	130.8	137.0	127.6	105.9	87.2	62.3	43.6	37.4
62.5°	8156.8	4452.0	133.9	102.7	99.6	99.6	80.9	65.4	43.6	24.9	21.8
65°	6693.5	3471.3	102.7	71.6	71.6	71.6	62.3	46.7	28.0	12.5	6.2
67.5°	4202.9	2020.5	84.1	56.0	52.9	52.9	43.6	31.1	15.6	3.1	0.0
70°	1581.5	741.0	65.4	43.6	40.5	40.5	31.1	18.7	9.3	0.0	0.0
72°	544.8	283.3	52.9	31.1	31.1	28.0	21.8	15.6	6.2	0.0	0.0
72.5°	448.3	227.3	49.8	31.1	28.0	28.0	21.8	15.6	6.2	0.0	0.0
75°	161.9	93.4	34.2	21.8	18.7	18.7	15.6	9.3	3.1	0.0	0.0
77.5°	80.9	59.2	28.0	18.7	15.6	9.3	9.3	6.2	3.1	0.0	0.0
80°	49.8	37.4	15.6	12.5	9.3	6.2	3.1	3.1	0.0	0.0	0.0
82.5°	34.2	21.8	9.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
85°	21.8	9.3	6.2	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	6.2	3.1	0.0	0.0	0.0	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)