

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: P483374

Luminaire Tested: **IFLD-L-SA8B-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483374
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-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

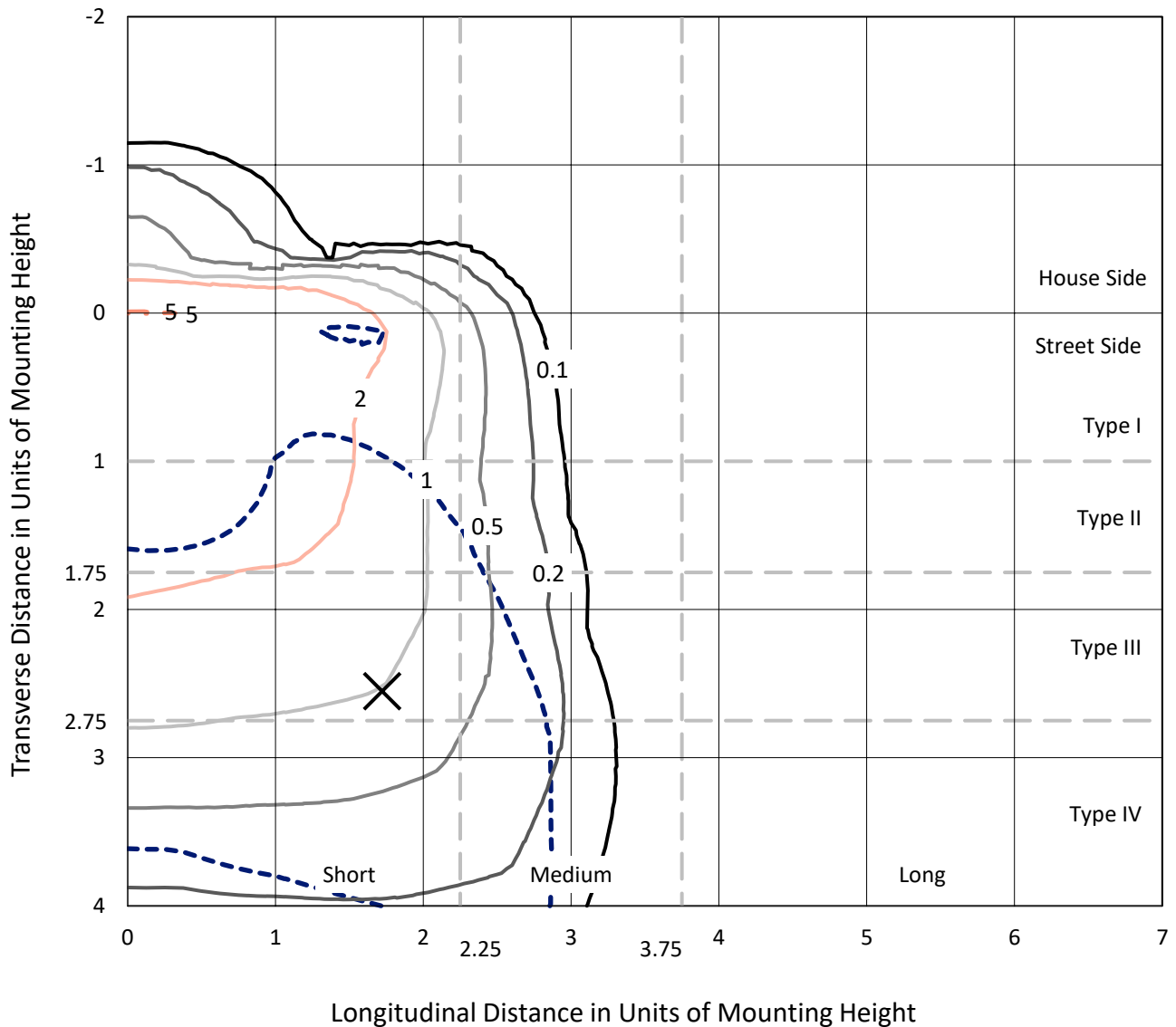
Lumens per Lamp: N/A
Luminaire Lumens: 21633.1 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

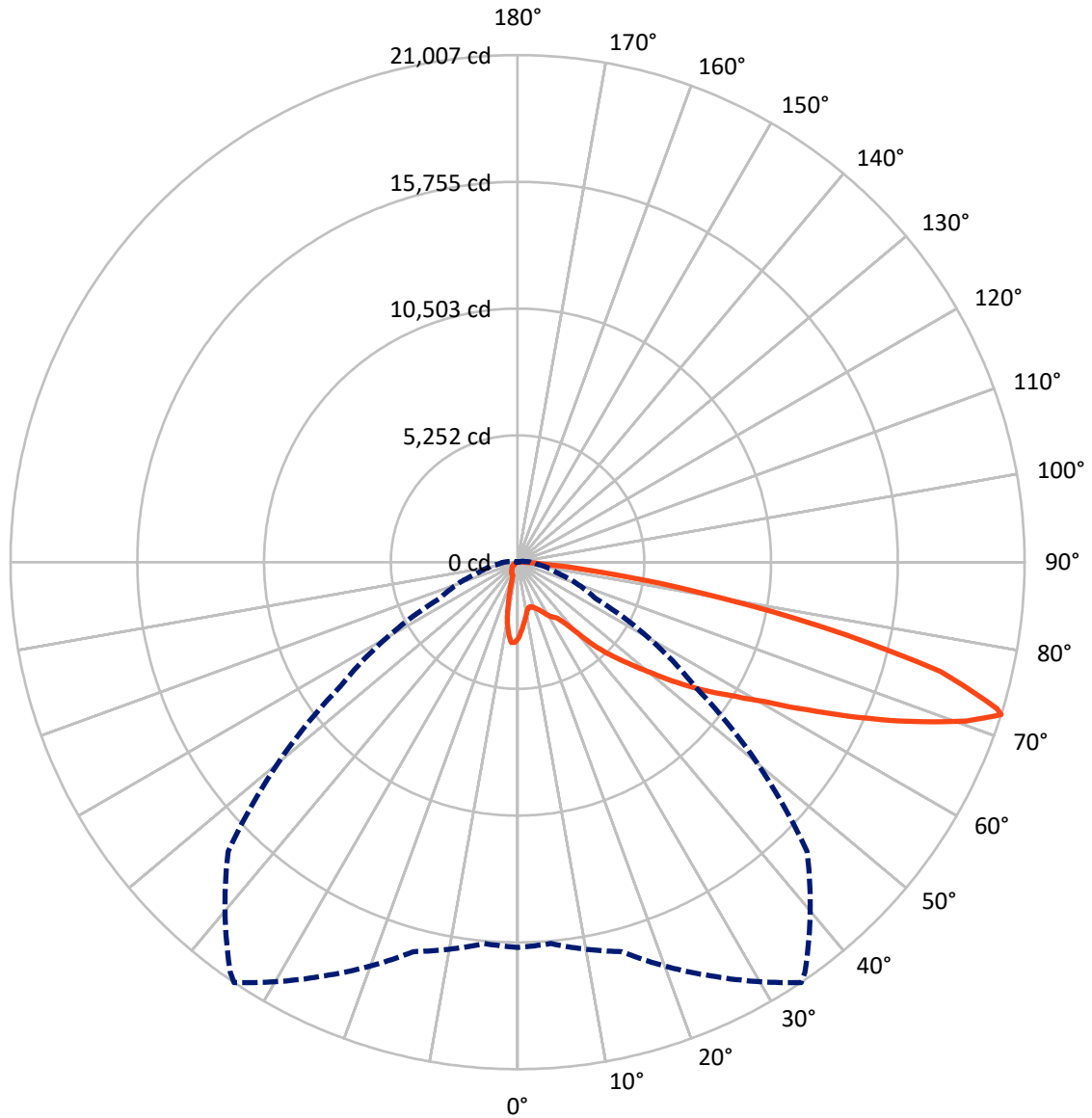
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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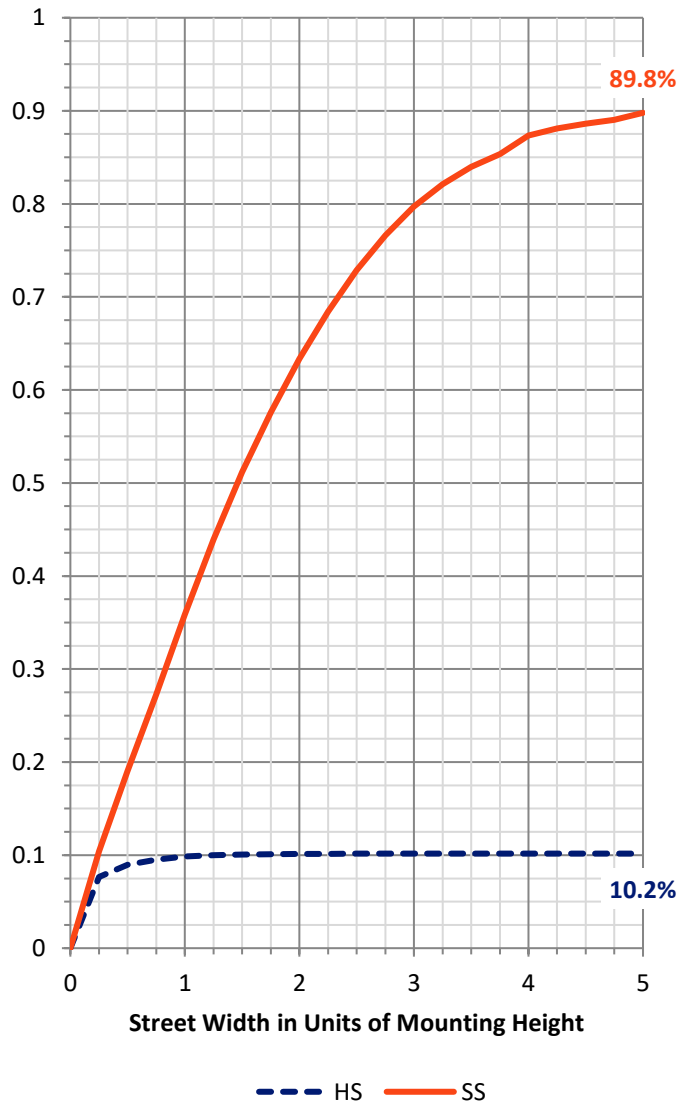
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2214.7	0.0	2214.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	19418.3	0.0	19418.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	21633.1	0.0	21633.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	1.3
10°-20°	622.0	2.9
20°-30°	938.9	4.3
30°-40°	1523.6	7.0
40°-50°	2865.0	13.2
50°-60°	4684.4	21.7
60°-70°	6227.2	28.8
70°-80°	4170.3	19.3
80°-90°	326.8	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°	21633.1	100.0
0°-180°	21633.1	100.0

Coefficient of Utilization

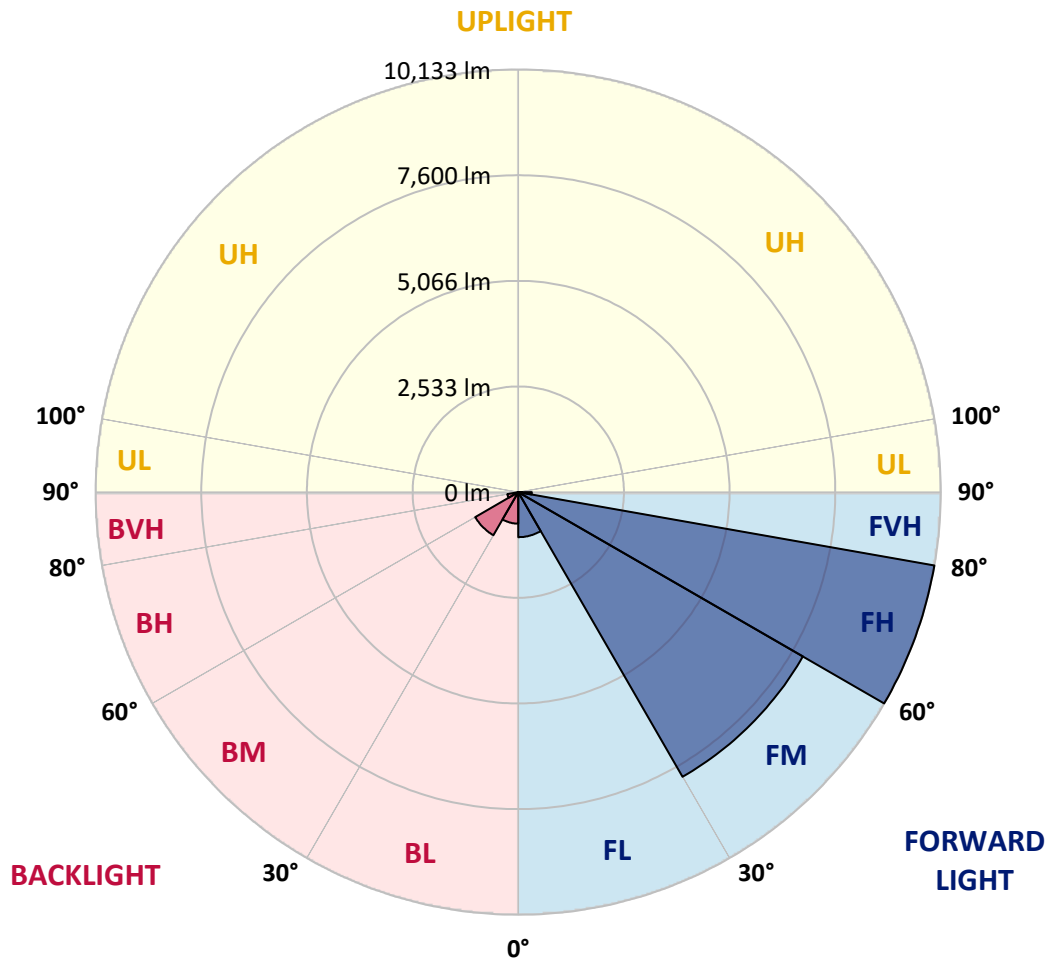


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1080.0	5.0			
FM (30°-60°)	7880.9	36.4			
FH (60°-80°)	10132.7	46.8			G4/12000
FVH (80°-90°)	324.7	1.5			G3/500
BL (0°-30°)	755.7	3.5	B2/1000		
BM (30°-60°)	1192.2	5.5	B2/2500		
BH (60°-80°)	264.8	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°	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9
2.5°	2799.0	2792.8	2811.5	2842.8	2874.1	2861.6	2921.0	2983.5	3027.3	3086.7	3158.7
5°	2445.6	2461.3	2480.0	2542.6	2583.2	2592.6	2702.1	2783.4	2917.9	3055.5	3183.7
7.5°	2123.5	2142.3	2179.8	2248.6	2333.0	2354.9	2464.4	2627.0	2802.2	2983.5	3193.1
10°	1889.0	1907.7	1948.4	1992.2	2104.7	2104.7	2254.9	2480.0	2708.3	2921.0	3196.2
12.5°	1838.9	1848.3	1845.2	1879.6	1951.5	1967.1	2114.1	2361.2	2627.0	2899.1	3246.2
15°	1898.3	1904.6	1873.3	1854.6	1917.1	1932.7	2070.3	2289.3	2573.9	2911.6	3327.6
17.5°	2017.2	1995.3	1932.7	1904.6	1957.8	1967.1	2095.4	2286.1	2567.6	2946.0	3421.4
20°	2086.0	2111.0	2001.5	1948.4	2023.4	2035.9	2173.5	2336.2	2598.9	3005.4	3552.7
22.5°	2207.9	2220.5	2073.5	2039.1	2111.0	2111.0	2267.4	2436.2	2673.9	3102.4	3709.1
25°	2380.0	2364.3	2192.3	2157.9	2226.7	2254.9	2411.2	2595.7	2789.6	3193.1	3853.0
27.5°	2514.4	2523.8	2383.1	2292.4	2408.1	2426.9	2595.7	2767.8	2877.2	3268.1	4028.1
30°	2714.6	2695.8	2545.7	2442.5	2586.4	2589.5	2752.1	2930.4	3046.1	3402.6	4290.8
32.5°	2952.3	2914.7	2742.7	2595.7	2711.5	2739.6	2905.4	3164.9	3308.8	3655.9	4697.4
35°	3455.8	3365.1	3083.6	2855.3	2864.7	2877.2	3133.7	3505.8	3671.6	3978.1	5241.5
37.5°	4190.7	4153.2	3834.2	3399.5	3233.7	3196.2	3483.9	3956.2	4162.6	4403.4	5948.3
40°	4919.4	4866.2	4569.1	4240.8	3940.5	3865.5	4009.3	4553.5	4741.1	4994.5	6673.9
42.5°	5729.4	5635.6	5285.3	5019.5	4831.8	4750.5	4694.2	5304.1	5516.7	5688.7	7383.8
45°	6548.8	6395.5	5888.9	5685.6	5585.5	5541.8	5535.5	6248.6	6376.8	6411.2	8171.9
47.5°	7268.1	7102.3	6642.6	6414.3	6339.2	6326.7	6677.0	7336.9	7236.8	7146.1	9050.7
50°	7821.6	7715.3	7383.8	7302.5	7246.2	7224.3	8043.7	8456.5	7993.6	7834.1	9823.2
52.5°	8678.5	8440.9	8065.6	8093.7	8290.7	8293.9	9429.1	9519.8	8622.3	8306.4	10551.9
55°	9363.4	9207.1	8900.6	8859.9	9379.1	9435.4	10670.7	10326.7	8972.5	8756.7	10820.8
57.5°	10170.3	10098.4	9876.3	9882.6	10426.8	10545.6	11774.7	11008.5	9263.4	9047.6	10861.5
60°	11336.8	11130.4	11014.7	11067.9	11709.0	11824.7	12844.2	11499.5	9404.1	9238.3	10761.4
62.5°	12625.3	12384.5	12259.4	12531.5	13466.6	13485.4	13657.4	11934.2	9316.5	9288.4	10117.1
65°	14176.5	13938.8	13838.8	14386.1	15496.3	15427.5	14798.9	12118.7	9038.2	8784.9	8425.2
67.5°	15721.5	15577.6	15371.2	16243.7	17626.0	17626.0	15984.2	12049.9	8309.5	7052.3	5510.5
70°	16453.3	16553.3	16881.7	18251.5	19718.3	19568.2	17153.8	11258.7	6186.0	3787.3	2167.3
72°	15965.4	15862.2	16709.7	18908.3	21006.8	20759.7	16956.8	8950.6	3574.6	1660.7	753.7
72.5°	15127.2	15224.2	16390.7	18817.6	20766.0	20969.2	16475.2	8256.3	2939.8	1322.9	569.2
75°	9275.9	9441.6	12234.4	15977.9	18095.2	17866.9	12744.2	3934.3	1129.0	562.9	203.3
77.5°	3387.0	3524.6	5935.8	10054.6	12869.3	12725.4	7374.4	1397.9	613.0	419.1	103.2
80°	881.9	953.9	2017.2	4637.9	7568.3	7577.7	3086.7	559.8	415.9	344.0	62.5
82.5°	175.1	193.9	619.2	1804.5	3537.1	3490.2	975.7	300.2	312.7	281.5	43.8
85°	21.9	28.1	131.4	613.0	1144.6	1025.8	240.8	150.1	231.4	218.9	28.1
87.5°	3.1	3.1	31.3	140.7	240.8	234.6	50.0	46.9	103.2	134.5	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°	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9	3164.9
2.5°	3199.3	3211.8	3255.6	3293.2	3336.9	3349.4	3330.7	3362.0	3318.2	3343.2	3349.4
5°	3205.6	3277.5	3358.8	3412.0	3399.5	3368.2	3343.2	3258.8	3199.3	3177.4	3224.4
7.5°	3249.4	3330.7	3418.3	3418.3	3349.4	3186.8	3030.5	2880.3	2755.2	2692.7	2745.9
10°	3305.7	3390.1	3480.8	3362.0	3105.5	2808.4	2586.4	2304.9	2114.1	2014.0	2023.4
12.5°	3380.7	3499.6	3530.8	3255.6	2830.3	2389.3	1985.9	1595.0	1413.6	1269.7	1272.9
15°	3477.7	3593.4	3499.6	3024.2	2480.0	1829.5	1344.8	972.6	828.8	753.7	753.7
17.5°	3605.9	3693.5	3490.2	2811.5	2007.8	1251.0	825.6	656.8	625.5	613.0	613.0
20°	3756.0	3821.7	3399.5	2480.0	1491.8	803.7	606.7	588.0	591.1	584.8	584.8
22.5°	3924.9	3946.8	3296.3	2095.4	1010.2	594.2	566.1	569.2	572.3	566.1	569.2
25°	4103.2	4043.7	3146.2	1645.0	672.4	541.0	547.3	553.6	556.7	559.8	559.8
27.5°	4303.3	4184.5	2936.6	1204.1	525.4	509.8	528.5	547.3	550.4	550.4	547.3
30°	4597.3	4400.3	2733.4	816.3	462.9	475.4	506.6	528.5	544.2	544.2	541.0
32.5°	4969.4	4625.4	2448.8	556.7	428.5	434.7	459.7	503.5	537.9	541.0	531.7
35°	5485.5	4897.5	2151.7	444.1	403.4	406.6	422.2	456.6	516.0	534.8	531.7
37.5°	6029.6	5207.1	1782.6	400.3	384.7	381.5	390.9	419.1	472.2	519.1	522.3
40°	6608.2	5532.4	1394.8	378.4	369.0	362.8	365.9	378.4	419.1	478.5	491.0
42.5°	7152.4	5826.4	1047.7	356.5	353.4	347.1	347.1	350.3	372.2	412.8	419.1
45°	7740.3	6067.2	797.5	340.9	331.5	334.6	322.1	315.9	331.5	334.6	331.5
47.5°	8290.7	6308.0	638.0	322.1	312.7	312.7	297.1	284.6	284.6	256.4	253.3
50°	8806.8	6439.3	509.8	297.1	294.0	290.8	269.0	247.1	228.3	193.9	187.6
52.5°	9235.2	6433.1	394.1	265.8	275.2	265.8	231.4	200.2	172.0	140.7	134.5
55°	9363.4	6132.8	297.1	218.9	234.6	222.0	184.5	156.4	125.1	100.1	96.9
57.5°	9254.0	5676.2	225.2	168.9	181.4	168.9	140.7	115.7	87.6	68.8	62.5
60°	8888.1	5141.5	175.1	131.4	137.6	128.2	106.3	87.6	62.5	43.8	37.5
62.5°	8193.8	4472.2	134.5	103.2	100.1	100.1	81.3	65.7	43.8	25.0	21.9
65°	6723.9	3487.1	103.2	71.9	71.9	71.9	62.5	46.9	28.1	12.5	6.3
67.5°	4222.0	2029.7	84.4	56.3	53.2	53.2	43.8	31.3	15.6	3.1	0.0
70°	1588.7	744.3	65.7	43.8	40.7	40.7	31.3	18.8	9.4	0.0	0.0
72°	547.3	284.6	53.2	31.3	31.3	28.1	21.9	15.6	6.3	0.0	0.0
72.5°	450.3	228.3	50.0	31.3	28.1	28.1	21.9	15.6	6.3	0.0	0.0
75°	162.6	93.8	34.4	21.9	18.8	18.8	15.6	9.4	3.1	0.0	0.0
77.5°	81.3	59.4	28.1	18.8	15.6	9.4	9.4	6.3	3.1	0.0	0.0
80°	50.0	37.5	15.6	12.5	9.4	6.3	3.1	3.1	0.0	0.0	0.0
82.5°	34.4	21.9	9.4	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0
85°	21.9	9.4	6.3	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	6.3	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)