

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: P479447

Luminaire Tested: **IFLD-S-SA3E-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479447
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

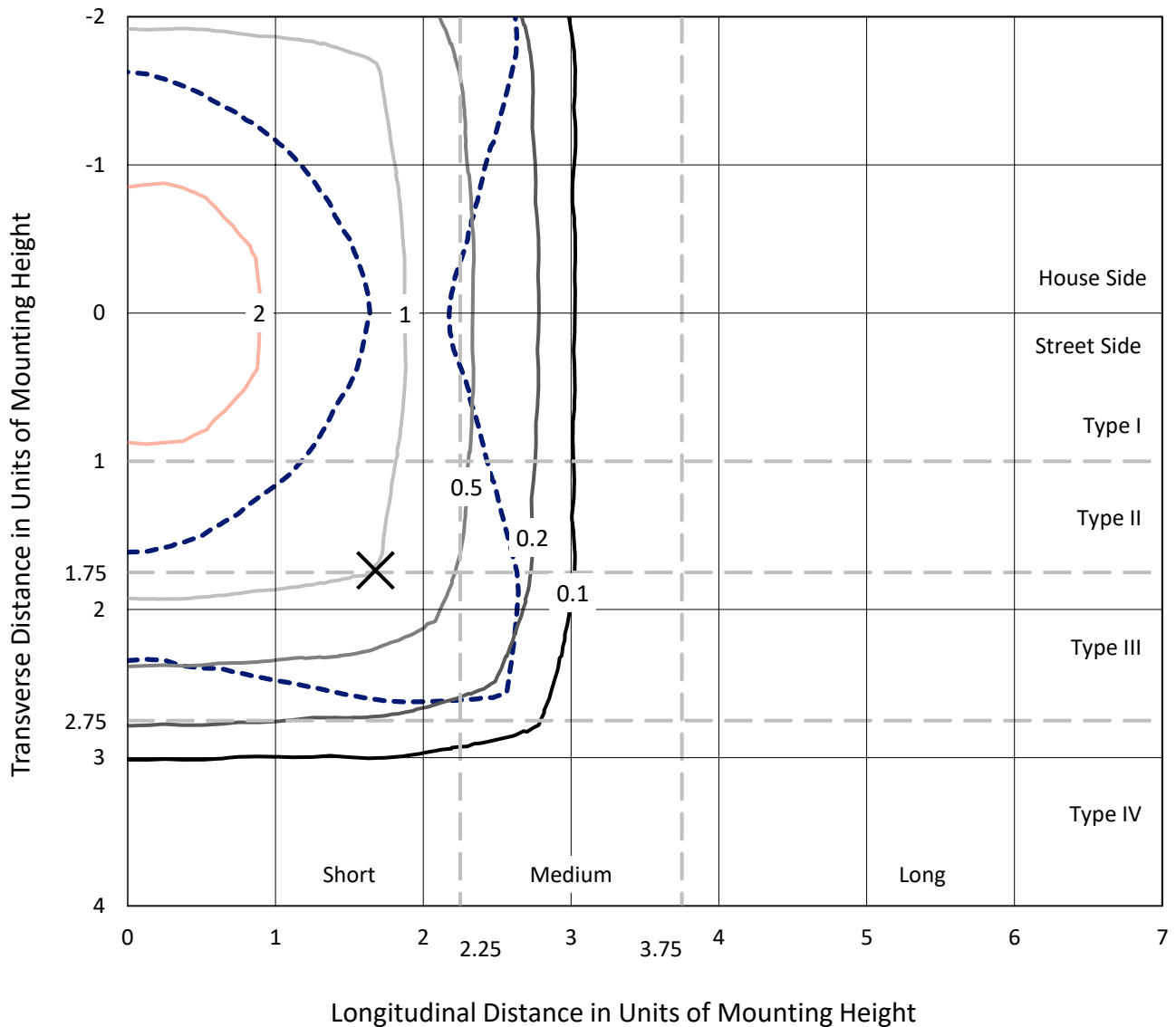
Lumens per Lamp: N/A
Luminaire Lumens: 20014.7 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 232.1
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

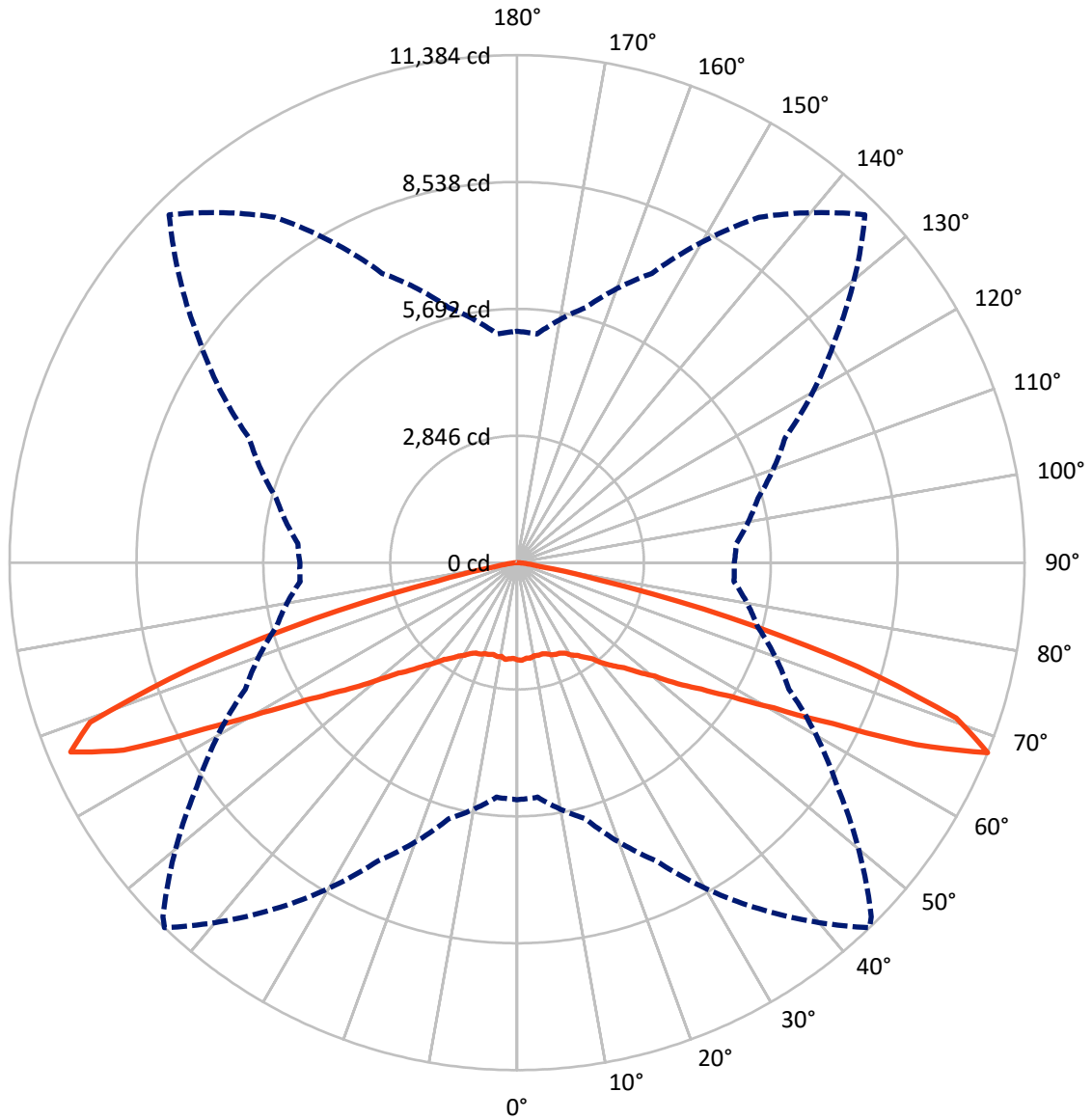
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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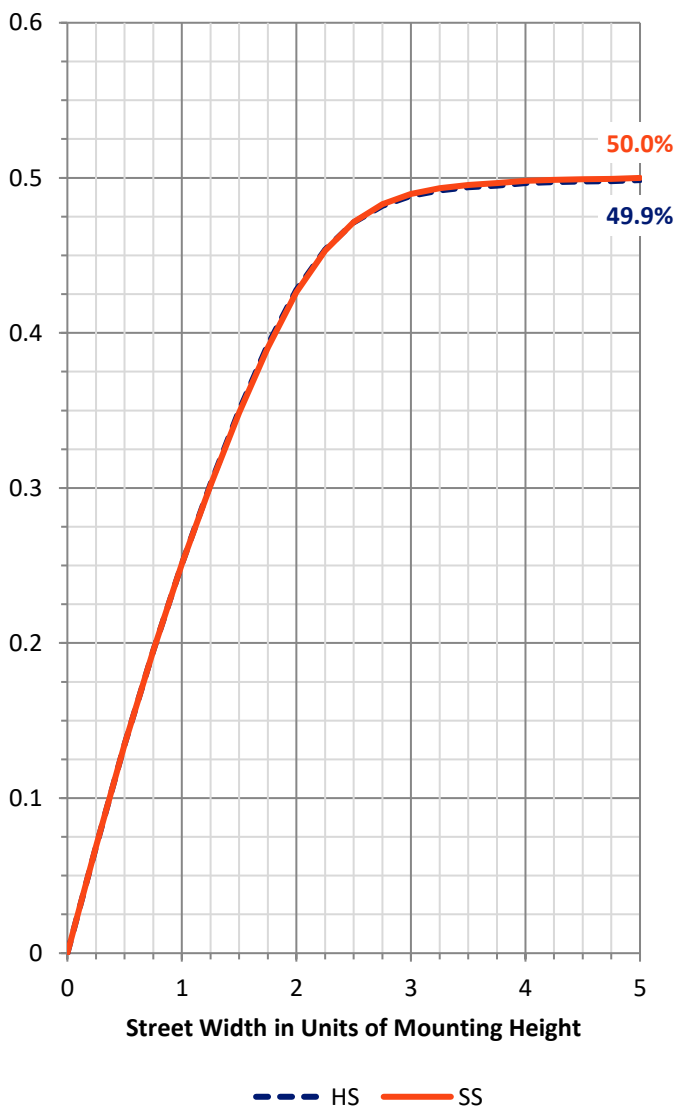
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9981.7	0.0	9981.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	10033.0	0.0	10033.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	20014.7	0.0	20014.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.0
10°-20°	604.4	3.0
20°-30°	1027.8	5.1
30°-40°	1629.7	8.1
40°-50°	2657.3	13.3
50°-60°	4538.3	22.7
60°-70°	6902.8	34.5
70°-80°	2326.7	11.6
80°-90°	120.8	0.6
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°	20014.7	100.0
0°-180°	20014.7	100.0

Coefficient of Utilization



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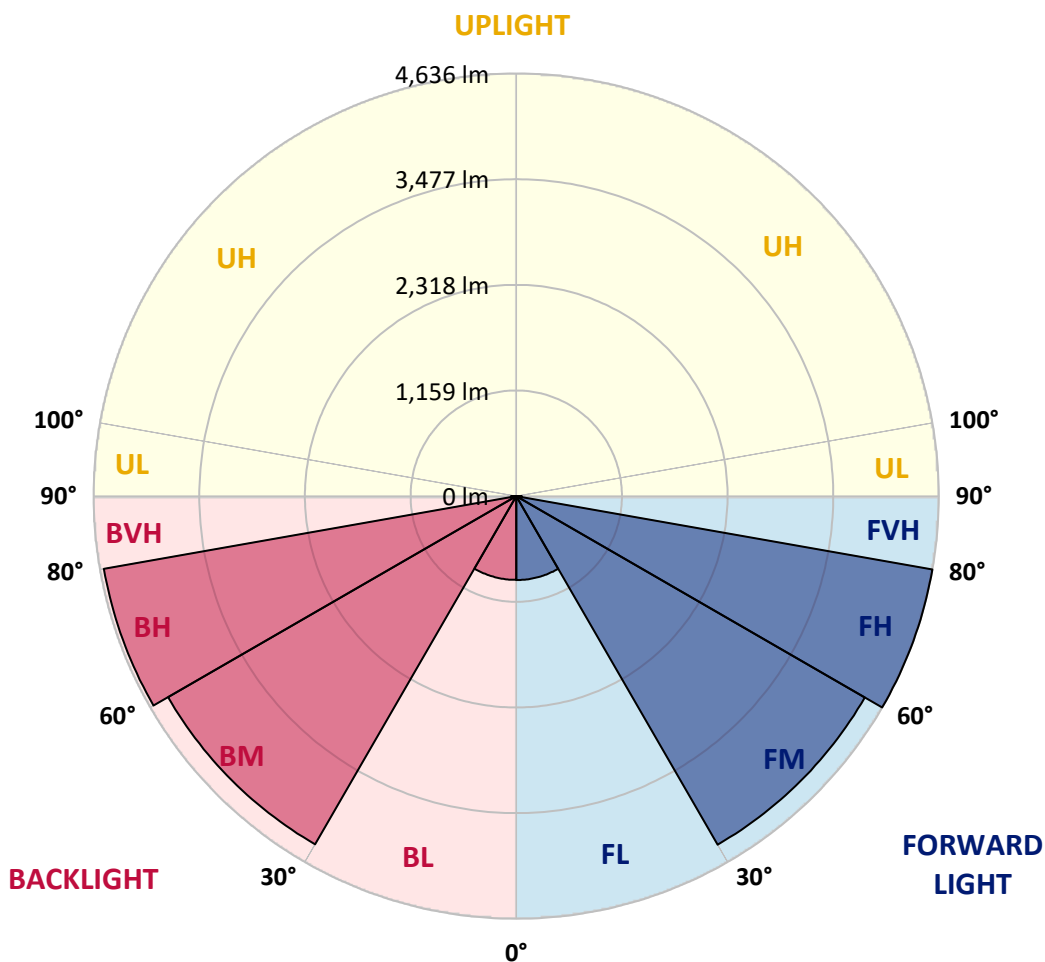
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	920.5	4.6			
FM (30°-60°)	4415.0	22.1			
FH (60°-80°)	4635.6	23.2			G2/5000
FVH (80°-90°)	61.8	0.3			G1/100
BL (0°-30°)	918.6	4.6	B2/1000		
BM (30°-60°)	4410.3	22.0	B3/5000		
BH (60°-80°)	4593.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	59.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3
2.5°	2136.0	2161.1	2179.4	2177.1	2184.0	2190.8	2181.7	2195.4	2186.3	2202.2	2211.4
5°	2177.1	2170.3	2172.5	2158.8	2190.8	2154.3	2154.3	2172.5	2195.4	2168.0	2184.0
7.5°	2152.0	2147.4	2136.0	2156.6	2163.4	2163.4	2181.7	2147.4	2186.3	2195.4	2197.7
10°	2124.6	2099.4	2133.7	2154.3	2158.8	2122.3	2138.3	2147.4	2136.0	2147.4	2154.3
12.5°	2101.7	2115.4	2115.4	2115.4	2108.6	2133.7	2149.7	2147.4	2124.6	2145.1	2108.6
15°	2099.4	2092.6	2113.2	2131.4	2120.0	2124.6	2131.4	2152.0	2108.6	2117.7	2117.7
17.5°	2097.2	2106.3	2113.2	2110.9	2149.7	2149.7	2142.9	2129.1	2163.4	2145.1	2120.0
20°	2106.3	2099.4	2117.7	2124.6	2152.0	2206.8	2186.3	2174.8	2156.6	2133.7	2133.7
22.5°	2117.7	2113.2	2138.3	2168.0	2220.5	2234.2	2231.9	2218.2	2186.3	2158.8	2154.3
25°	2158.8	2117.7	2145.1	2202.2	2220.5	2247.9	2266.2	2247.9	2204.5	2211.4	2170.3
27.5°	2220.5	2213.7	2250.2	2289.1	2273.1	2298.2	2282.2	2295.9	2298.2	2263.9	2222.8
30°	2293.6	2273.1	2295.9	2371.3	2378.2	2405.6	2378.2	2341.6	2353.0	2323.3	2302.8
32.5°	2398.7	2391.9	2435.3	2485.5	2494.7	2481.0	2467.2	2487.8	2439.8	2417.0	2380.4
35°	2467.2	2496.9	2549.5	2588.3	2618.0	2604.3	2611.2	2590.6	2602.0	2554.1	2538.1
37.5°	2670.6	2659.1	2670.6	2736.8	2743.7	2736.8	2743.7	2766.5	2750.5	2709.4	2668.3
40°	2862.5	2844.2	2871.6	2947.0	2942.4	2965.3	2919.6	2944.7	2944.7	2867.0	2851.0
42.5°	3006.4	3068.1	3100.1	3161.7	3184.6	3164.0	3154.9	3159.4	3209.7	3118.3	3084.1
45°	3303.4	3301.1	3397.0	3431.3	3367.3	3362.8	3344.5	3399.3	3433.6	3381.0	3367.3
47.5°	3625.5	3641.5	3696.3	3710.0	3748.8	3678.0	3678.0	3684.9	3806.0	3682.6	3618.6
50°	3915.6	3936.2	4045.8	4153.2	4080.1	4004.7	4034.4	4071.0	4137.2	4020.7	3965.9
52.5°	4267.4	4379.4	4452.5	4509.6	4562.1	4509.6	4441.0	4482.2	4612.4	4457.0	4388.5
55°	4774.6	4863.7	4932.2	5037.3	5080.7	5009.9	5003.0	4998.5	5071.6	4907.1	4813.4
57.5°	5341.1	5304.6	5414.2	5576.4	5734.1	5665.5	5645.0	5649.5	5667.8	5434.8	5364.0
60°	6044.8	6085.9	6216.1	6357.7	6524.5	6620.5	6485.7	6408.0	6424.0	6106.4	5996.8
62.5°	6446.8	6538.2	6832.9	7319.5	7655.3	7954.6	7975.2	7470.3	7132.2	6515.4	6049.3
65°	6252.6	6238.9	6794.1	7694.2	8966.6	9837.0	9706.8	8482.3	7301.2	6321.2	5695.2
67.5°	5318.3	5281.7	5953.4	7381.2	9482.9	11383.6	11235.1	8767.9	6730.1	5592.4	4884.2
70°	3426.7	3417.6	4146.3	5626.7	8466.3	10451.5	10506.4	7963.7	5478.2	4096.1	3394.8
72.5°	1245.0	1320.4	1743.1	3024.7	5750.1	7995.7	8030.0	5896.3	3150.3	1893.8	1395.8
75°	459.2	472.9	550.6	982.3	2620.3	4909.4	5037.3	2860.2	1119.4	616.8	502.6
77.5°	265.0	267.3	294.7	365.5	776.7	1916.7	1994.4	868.1	434.1	329.0	303.8
80°	180.5	178.2	207.9	237.6	310.7	543.7	578.0	363.2	274.1	228.4	191.9
82.5°	105.1	111.9	153.1	169.1	189.6	239.9	244.4	226.2	205.6	169.1	125.6
85°	64.0	52.5	84.5	93.7	109.7	107.4	107.4	123.4	132.5	118.8	70.8
87.5°	16.0	16.0	20.6	22.8	29.7	22.8	25.1	48.0	64.0	59.4	36.6
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°	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3	2186.3
2.5°	2190.8	2184.0	2188.5	2213.7	2197.7	2149.7	2161.1	2186.3	2165.7	2154.3	2152.0
5°	2181.7	2195.4	2179.4	2184.0	2200.0	2161.1	2168.0	2200.0	2186.3	2190.8	2165.7
7.5°	2184.0	2190.8	2177.1	2156.6	2156.6	2188.5	2170.3	2174.8	2154.3	2188.5	2142.9
10°	2170.3	2152.0	2136.0	2147.4	2142.9	2133.7	2126.9	2140.6	2120.0	2149.7	2117.7
12.5°	2129.1	2133.7	2129.1	2124.6	2133.7	2156.6	2120.0	2124.6	2092.6	2097.2	2113.2
15°	2113.2	2126.9	2122.3	2147.4	2158.8	2124.6	2152.0	2124.6	2099.4	2085.7	2110.9
17.5°	2120.0	2140.6	2133.7	2152.0	2131.4	2156.6	2161.1	2149.7	2120.0	2108.6	2120.0
20°	2126.9	2120.0	2129.1	2161.1	2190.8	2165.7	2165.7	2158.8	2131.4	2115.4	2115.4
22.5°	2142.9	2131.4	2145.1	2170.3	2179.4	2218.2	2184.0	2168.0	2122.3	2081.2	2120.0
25°	2174.8	2181.7	2190.8	2181.7	2231.9	2227.4	2222.8	2211.4	2140.6	2142.9	2136.0
27.5°	2236.5	2197.7	2209.1	2263.9	2270.8	2289.1	2266.2	2286.8	2211.4	2213.7	2168.0
30°	2311.9	2270.8	2307.3	2355.3	2353.0	2387.3	2375.9	2380.4	2327.9	2298.2	2236.5
32.5°	2394.1	2389.6	2412.4	2442.1	2453.5	2471.8	2469.5	2469.5	2437.6	2359.9	2371.3
35°	2485.5	2517.5	2544.9	2576.9	2581.5	2604.3	2572.3	2576.9	2544.9	2487.8	2506.1
37.5°	2666.0	2663.7	2693.4	2732.3	2736.8	2718.5	2743.7	2732.3	2688.8	2650.0	2620.3
40°	2876.2	2830.5	2857.9	2949.3	2956.1	2924.1	2921.9	2919.6	2887.6	2803.1	2784.8
42.5°	3058.9	3118.3	3113.8	3143.5	3122.9	3106.9	3164.0	3132.0	3106.9	3017.8	3001.8
45°	3294.2	3312.5	3371.9	3467.9	3369.6	3369.6	3408.5	3383.3	3369.6	3303.4	3241.7
47.5°	3586.6	3602.6	3721.4	3728.3	3664.3	3620.9	3742.0	3746.6	3689.5	3639.2	3563.8
50°	3929.3	3936.2	4043.5	4153.2	4082.4	4000.1	4123.5	4171.5	4043.5	3975.0	3881.3
52.5°	4306.3	4285.7	4374.8	4580.4	4511.9	4486.7	4619.2	4630.7	4457.0	4349.7	4374.8
55°	4740.3	4712.9	4955.1	5094.4	5051.0	5005.3	5064.7	5092.1	4952.8	4776.9	4838.5
57.5°	5302.3	5316.0	5437.1	5574.2	5645.0	5656.4	5683.8	5656.4	5514.8	5336.6	5279.5
60°	5864.3	5905.4	6140.7	6398.9	6421.7	6622.7	6586.2	6449.1	6248.1	5994.5	6005.9
62.5°	6072.2	6037.9	6417.1	7047.7	7584.5	7952.3	7790.1	7303.5	6837.5	6376.0	6410.3
65°	5654.1	5738.6	6254.9	7241.8	8406.9	9862.1	8998.6	7653.0	6711.8	6115.6	6049.3
67.5°	4872.8	4936.8	5592.4	6634.2	8701.6	11036.4	9455.5	7159.6	5919.1	5147.0	5188.1
70°	3394.8	3426.7	4068.7	5434.8	7890.6	10415.0	8530.3	5498.8	4087.0	3257.7	3303.4
72.5°	1366.1	1443.8	1866.4	3273.7	5825.4	7913.5	5743.2	2885.3	1695.1	1261.0	1144.5
75°	504.9	507.2	596.3	1126.3	2766.5	4973.3	2590.6	927.5	541.4	443.2	422.6
77.5°	292.4	290.1	310.7	406.6	801.9	1941.8	735.6	363.2	294.7	265.0	253.6
80°	182.8	180.5	212.5	269.6	351.8	532.3	310.7	226.2	198.8	171.3	171.3
82.5°	116.5	118.8	166.8	198.8	214.7	235.3	180.5	159.9	148.5	98.2	95.9
85°	75.4	68.5	116.5	132.5	118.8	105.1	100.5	84.5	77.7	48.0	52.5
87.5°	34.3	36.6	59.4	66.3	43.4	25.1	25.1	18.3	18.3	11.4	11.4
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)