

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: P479250

Luminaire Tested: **IFLD-S-SA3C-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479250
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

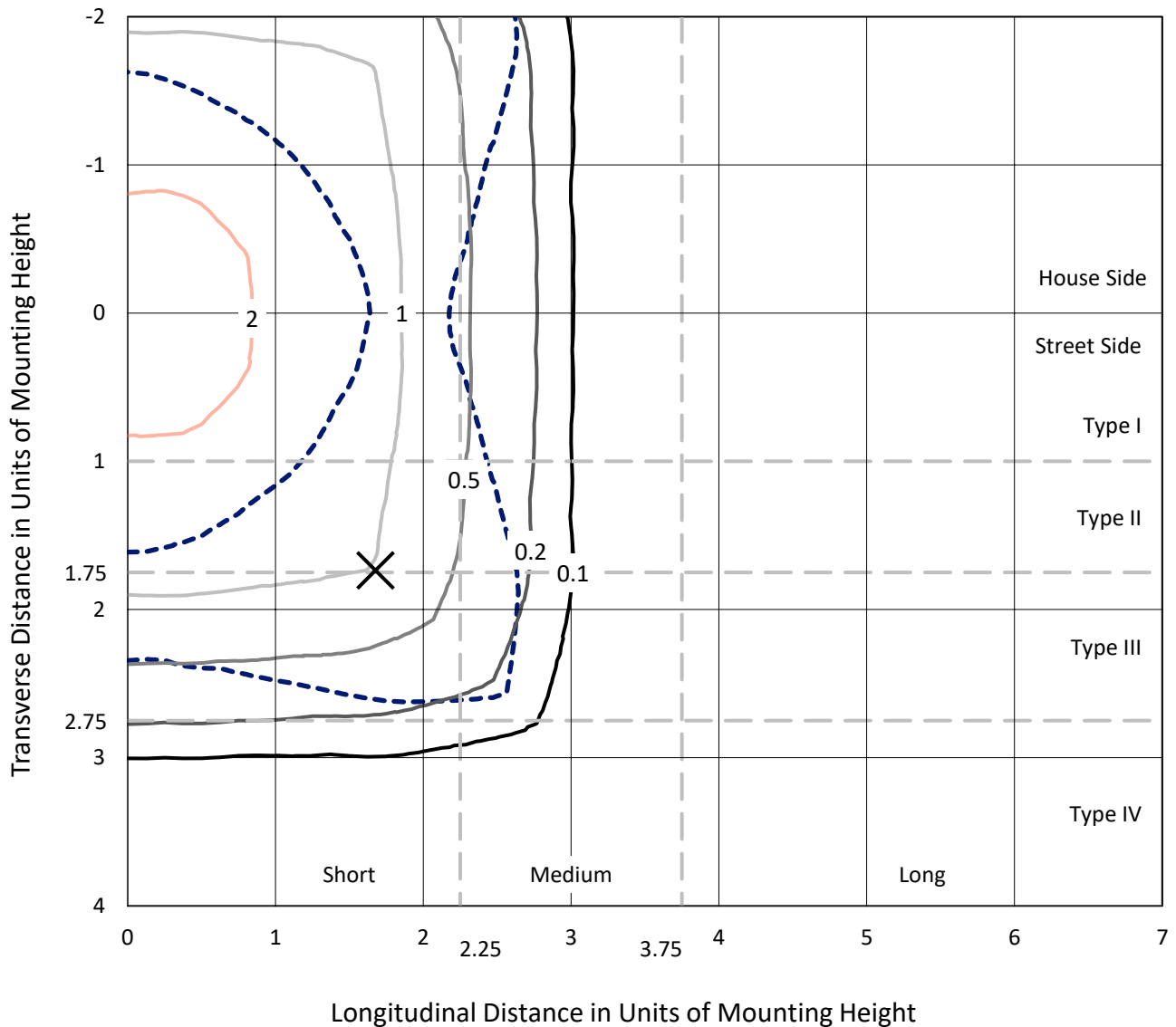
Lumens per Lamp: N/A
Luminaire Lumens: 19469.8 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 160.8
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

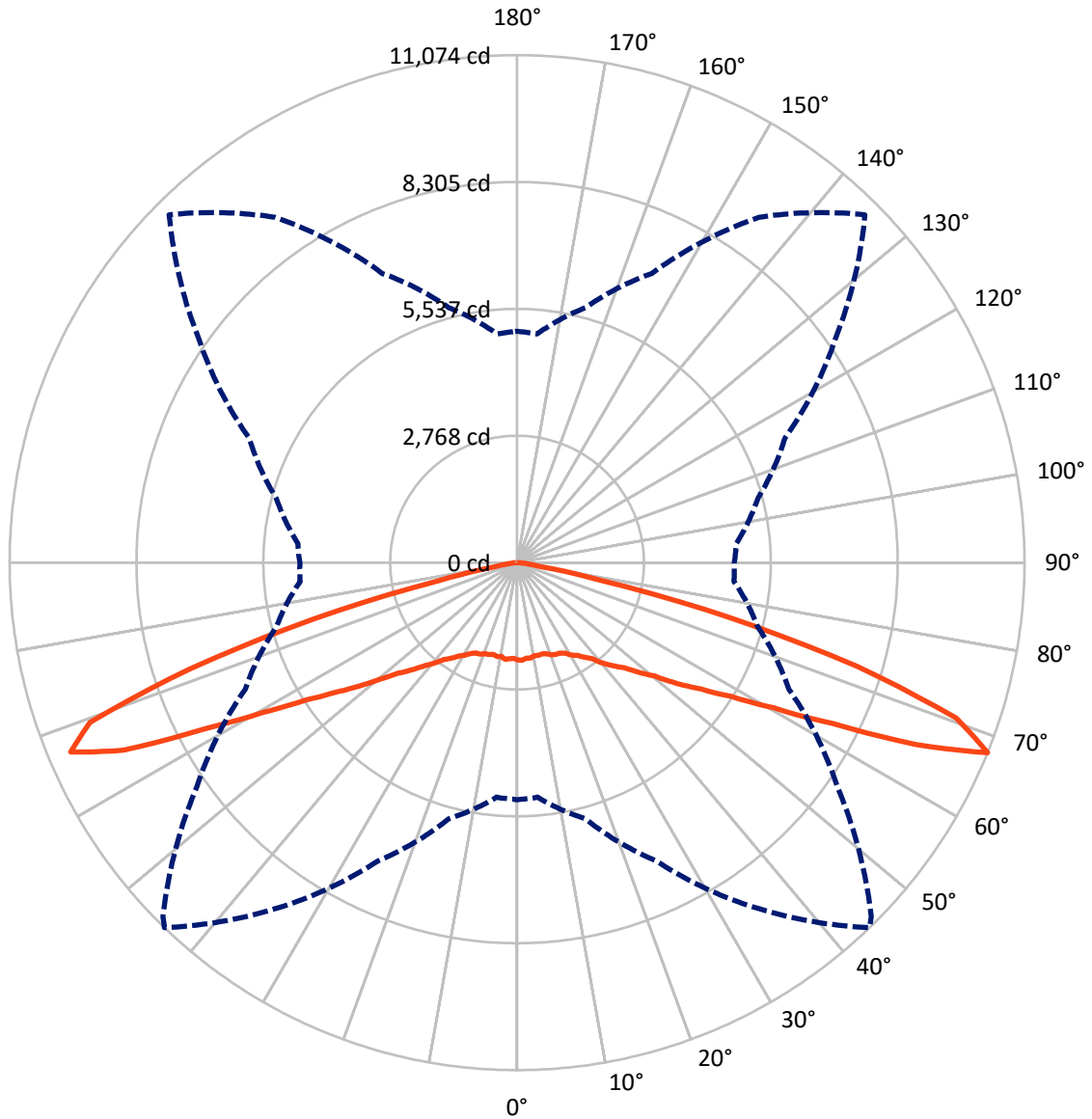
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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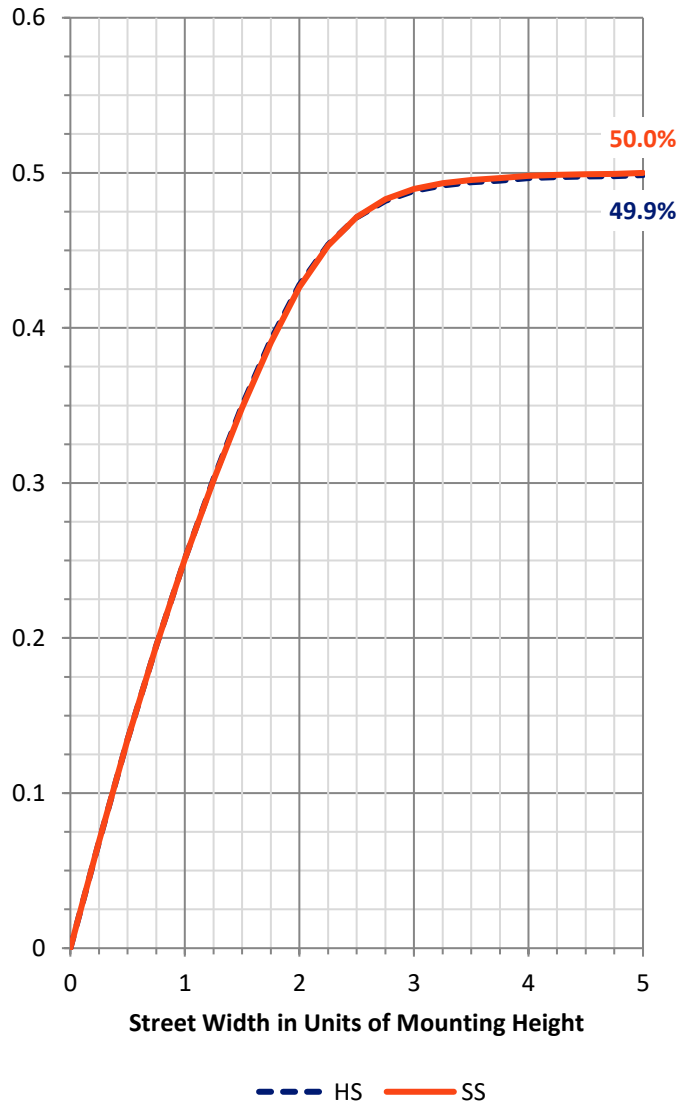
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9710.0	0.0	9710.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	9759.8	0.0	9759.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	19469.8	0.0	19469.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	1.0
10°-20°	588.0	3.0
20°-30°	999.9	5.1
30°-40°	1585.3	8.1
40°-50°	2585.0	13.3
50°-60°	4414.8	22.7
60°-70°	6714.8	34.5
70°-80°	2263.3	11.6
80°-90°	117.5	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°	19469.8	100.0
0°-180°	19469.8	100.0

Coefficient of Utilization



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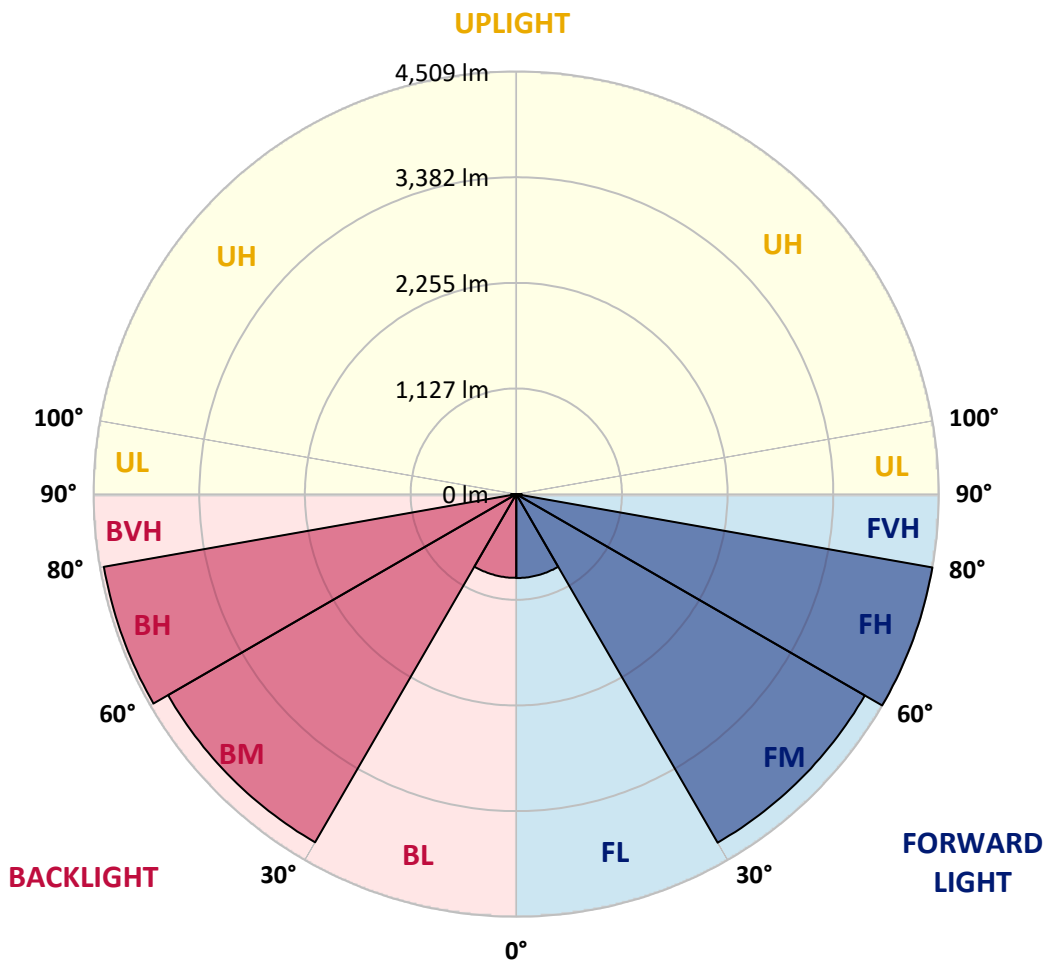
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.4	4.6			
FM (30°-60°)	4294.8	22.1			
FH (60°-80°)	4509.4	23.2			G2/5000
FVH (80°-90°)	60.1	0.3			G1/100
BL (0°-30°)	893.6	4.6	B2/1000		
BM (30°-60°)	4290.2	22.0	B3/5000		
BH (60°-80°)	4468.7	23.0	B4/5000		G2/5000
BVH (80°-90°)	57.4	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°	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7
2.5°	2077.8	2102.3	2120.1	2117.8	2124.5	2131.2	2122.3	2135.6	2126.7	2142.3	2151.2
5°	2117.8	2111.2	2113.4	2100.1	2131.2	2095.6	2095.6	2113.4	2135.6	2109.0	2124.5
7.5°	2093.4	2089.0	2077.8	2097.8	2104.5	2104.5	2122.3	2089.0	2126.7	2135.6	2137.9
10°	2066.7	2042.3	2075.6	2095.6	2100.1	2064.5	2080.1	2089.0	2077.8	2089.0	2095.6
12.5°	2044.5	2057.8	2057.8	2057.8	2051.2	2075.6	2091.2	2089.0	2066.7	2086.7	2051.2
15°	2042.3	2035.6	2055.6	2073.4	2062.3	2066.7	2073.4	2093.4	2051.2	2060.1	2060.1
17.5°	2040.1	2049.0	2055.6	2053.4	2091.2	2091.2	2084.5	2071.2	2104.5	2086.7	2062.3
20°	2049.0	2042.3	2060.1	2066.7	2093.4	2146.7	2126.7	2115.6	2097.8	2075.6	2075.6
22.5°	2060.1	2055.6	2080.1	2109.0	2160.1	2173.4	2171.2	2157.9	2126.7	2100.1	2095.6
25°	2100.1	2060.1	2086.7	2142.3	2160.1	2186.7	2204.5	2186.7	2144.5	2151.2	2111.2
27.5°	2160.1	2153.4	2189.0	2226.7	2211.2	2235.6	2220.1	2233.4	2235.6	2202.3	2162.3
30°	2231.2	2211.2	2233.4	2306.7	2313.4	2340.1	2313.4	2277.9	2289.0	2260.1	2240.1
32.5°	2333.4	2326.7	2369.0	2417.9	2426.7	2413.4	2400.1	2420.1	2373.4	2351.2	2315.6
35°	2400.1	2429.0	2480.1	2517.9	2546.8	2533.4	2540.1	2520.1	2531.2	2484.5	2469.0
37.5°	2597.9	2586.8	2597.9	2662.3	2669.0	2662.3	2669.0	2691.2	2675.6	2635.6	2595.6
40°	2784.5	2766.8	2793.4	2866.8	2862.3	2884.5	2840.1	2864.5	2864.5	2789.0	2773.4
42.5°	2924.5	2984.5	3015.7	3075.7	3097.9	3077.9	3069.0	3073.4	3122.3	3033.4	3000.1
45°	3213.4	3211.2	3304.6	3337.9	3275.7	3271.2	3253.4	3306.8	3340.1	3289.0	3275.7
47.5°	3526.8	3542.3	3595.7	3609.0	3646.8	3577.9	3577.9	3584.6	3702.3	3582.3	3520.1
50°	3809.0	3829.0	3935.7	4040.1	3969.0	3895.7	3924.6	3960.1	4024.6	3911.2	3857.9
52.5°	4151.3	4260.1	4331.3	4386.8	4437.9	4386.8	4320.1	4360.1	4486.8	4335.7	4269.0
55°	4644.6	4731.3	4797.9	4900.2	4942.4	4873.5	4866.8	4862.4	4933.5	4773.5	4682.4
57.5°	5195.7	5160.2	5266.8	5424.6	5578.0	5511.3	5491.3	5495.7	5513.5	5286.8	5218.0
60°	5880.2	5920.2	6046.9	6184.7	6346.9	6440.2	6309.1	6233.5	6249.1	5940.2	5833.5
62.5°	6271.3	6360.2	6646.9	7120.2	7446.9	7738.0	7758.0	7266.9	6938.0	6338.0	5884.6
65°	6082.4	6069.1	6609.1	7484.7	8722.5	9569.2	9442.5	8251.4	7102.5	6149.1	5540.2
67.5°	5173.5	5138.0	5791.3	7180.2	9224.8	11073.7	10929.3	8529.2	6546.9	5440.2	4751.3
70°	3333.4	3324.6	4033.5	5473.5	8235.8	10167.0	10220.3	7746.9	5329.1	3984.6	3302.3
72.5°	1211.2	1284.5	1695.6	2942.3	5593.5	7778.0	7811.4	5735.7	3064.5	1842.3	1357.8
75°	446.7	460.0	535.6	955.6	2549.0	4775.7	4900.2	2782.3	1088.9	600.0	488.9
77.5°	257.8	260.0	286.7	355.6	755.6	1864.5	1940.1	844.5	422.2	320.0	295.6
80°	175.6	173.3	202.2	231.1	302.2	528.9	562.2	353.3	266.7	222.2	186.7
82.5°	102.2	108.9	148.9	164.5	184.5	233.3	237.8	220.0	200.0	164.5	122.2
85°	62.2	51.1	82.2	91.1	106.7	104.4	104.4	120.0	128.9	115.6	68.9
87.5°	15.6	15.6	20.0	22.2	28.9	22.2	24.4	46.7	62.2	57.8	35.6
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°	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7	2126.7
2.5°	2131.2	2124.5	2129.0	2153.4	2137.9	2091.2	2102.3	2126.7	2106.7	2095.6	2093.4
5°	2122.3	2135.6	2120.1	2124.5	2140.1	2102.3	2109.0	2140.1	2126.7	2131.2	2106.7
7.5°	2124.5	2131.2	2117.8	2097.8	2097.8	2129.0	2111.2	2115.6	2095.6	2129.0	2084.5
10°	2111.2	2093.4	2077.8	2089.0	2084.5	2075.6	2069.0	2082.3	2062.3	2091.2	2060.1
12.5°	2071.2	2075.6	2071.2	2066.7	2075.6	2097.8	2062.3	2066.7	2035.6	2040.1	2055.6
15°	2055.6	2069.0	2064.5	2089.0	2100.1	2066.7	2093.4	2066.7	2042.3	2029.0	2053.4
17.5°	2062.3	2082.3	2075.6	2093.4	2073.4	2097.8	2102.3	2091.2	2062.3	2051.2	2062.3
20°	2069.0	2062.3	2071.2	2102.3	2131.2	2106.7	2106.7	2100.1	2073.4	2057.8	2057.8
22.5°	2084.5	2073.4	2086.7	2111.2	2120.1	2157.9	2124.5	2109.0	2064.5	2024.5	2062.3
25°	2115.6	2122.3	2131.2	2122.3	2171.2	2166.7	2162.3	2151.2	2082.3	2084.5	2077.8
27.5°	2175.6	2137.9	2149.0	2202.3	2209.0	2226.7	2204.5	2224.5	2151.2	2153.4	2109.0
30°	2249.0	2209.0	2244.5	2291.2	2289.0	2322.3	2311.2	2315.6	2264.5	2235.6	2175.6
32.5°	2329.0	2324.5	2346.7	2375.6	2386.7	2404.5	2402.3	2402.3	2371.2	2295.6	2306.7
35°	2417.9	2449.0	2475.6	2506.8	2511.2	2533.4	2502.3	2506.8	2475.6	2420.1	2437.9
37.5°	2593.4	2591.2	2620.1	2657.9	2662.3	2644.5	2669.0	2657.9	2615.6	2577.9	2549.0
40°	2797.9	2753.4	2780.1	2869.0	2875.7	2844.5	2842.3	2840.1	2809.0	2726.8	2709.0
42.5°	2975.7	3033.4	3029.0	3057.9	3037.9	3022.3	3077.9	3046.8	3022.3	2935.7	2920.1
45°	3204.6	3222.3	3280.1	3373.4	3277.9	3277.9	3315.7	3291.2	3277.9	3213.4	3153.4
47.5°	3489.0	3504.6	3620.1	3626.8	3564.6	3522.3	3640.1	3644.6	3589.0	3540.1	3466.8
50°	3822.4	3829.0	3933.5	4040.1	3971.2	3891.2	4011.2	4057.9	3933.5	3866.8	3775.7
52.5°	4189.0	4169.0	4255.7	4455.7	4389.0	4364.6	4493.5	4504.6	4335.7	4231.3	4255.7
55°	4611.3	4584.6	4820.2	4955.7	4913.5	4869.1	4926.8	4953.5	4817.9	4646.8	4706.8
57.5°	5158.0	5171.3	5289.1	5422.4	5491.3	5502.4	5529.1	5502.4	5364.6	5191.3	5135.7
60°	5704.6	5744.6	5973.5	6224.7	6246.9	6442.4	6406.9	6273.5	6078.0	5831.3	5842.4
62.5°	5906.9	5873.5	6242.4	6855.8	7378.0	7735.8	7578.0	7104.7	6651.3	6202.4	6235.8
65°	5500.2	5582.4	6084.7	7044.7	8178.1	9593.7	8753.6	7444.7	6529.1	5949.1	5884.6
67.5°	4740.2	4802.4	5440.2	6453.6	8464.7	10735.9	9198.1	6964.7	5758.0	5006.8	5046.8
70°	3302.3	3333.4	3957.9	5286.8	7675.8	10131.5	8298.1	5349.1	3975.7	3169.0	3213.4
72.5°	1328.9	1404.5	1815.6	3184.6	5666.9	7698.0	5586.9	2806.8	1648.9	1226.7	1113.4
75°	491.1	493.4	580.0	1095.6	2691.2	4837.9	2520.1	902.3	526.7	431.1	411.1
77.5°	284.5	282.2	302.2	395.6	780.0	1889.0	715.6	353.3	286.7	257.8	246.7
80°	177.8	175.6	206.7	262.2	342.2	517.8	302.2	220.0	193.3	166.7	166.7
82.5°	113.3	115.6	162.2	193.3	208.9	228.9	175.6	155.6	144.4	95.6	93.3
85°	73.3	66.7	113.3	128.9	115.6	102.2	97.8	82.2	75.6	46.7	51.1
87.5°	33.3	35.6	57.8	64.4	42.2	24.4	24.4	17.8	17.8	11.1	11.1
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)