

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: P479185

Luminaire Tested: **IFLD-S-SA6A-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479185
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

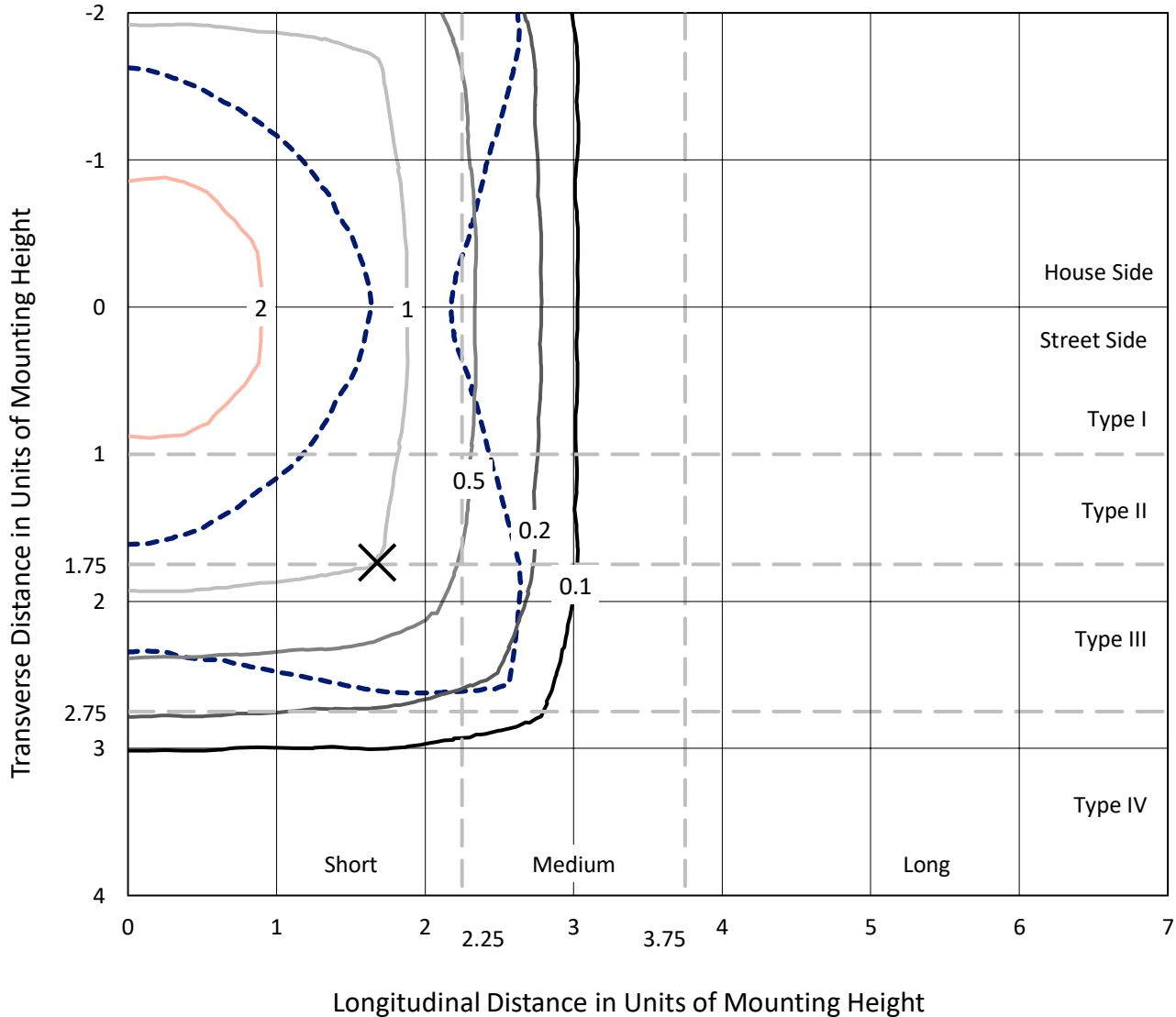
Lumens per Lamp: N/A
Luminaire Lumens: 20067.8 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 189.6
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

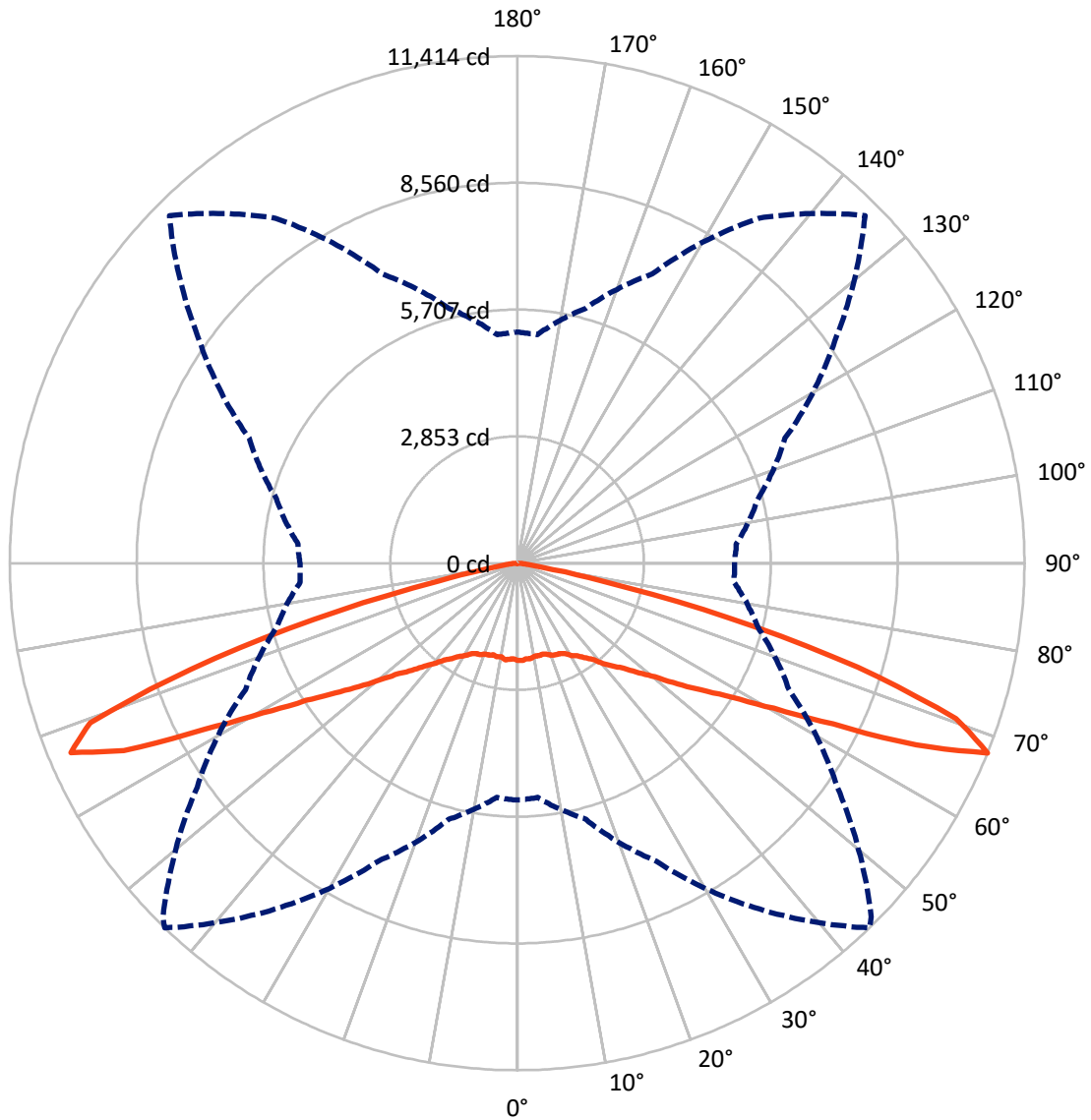
✕ Max cd
 - - - 1/2 Max cd



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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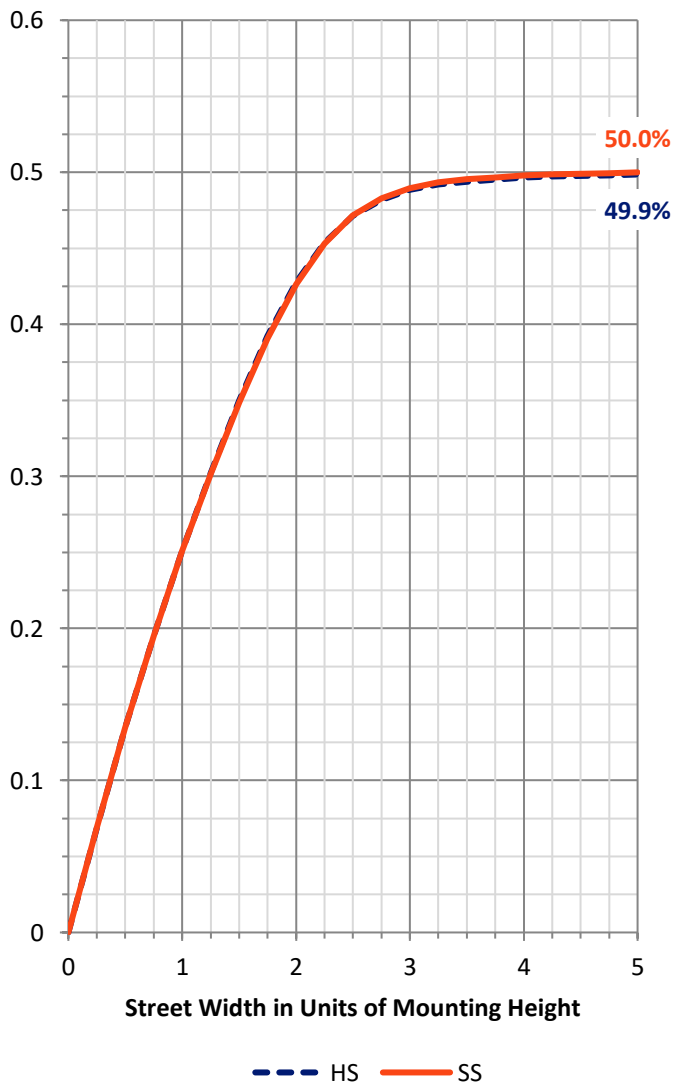
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10008.2	0.0	10008.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	10059.6	0.0	10059.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	20067.8	0.0	20067.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	1.0
10°-20°	606.0	3.0
20°-30°	1030.6	5.1
30°-40°	1634.0	8.1
40°-50°	2664.4	13.3
50°-60°	4550.4	22.7
60°-70°	6921.1	34.5
70°-80°	2332.8	11.6
80°-90°	121.1	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°	20067.8	100.0
0°-180°	20067.8	100.0

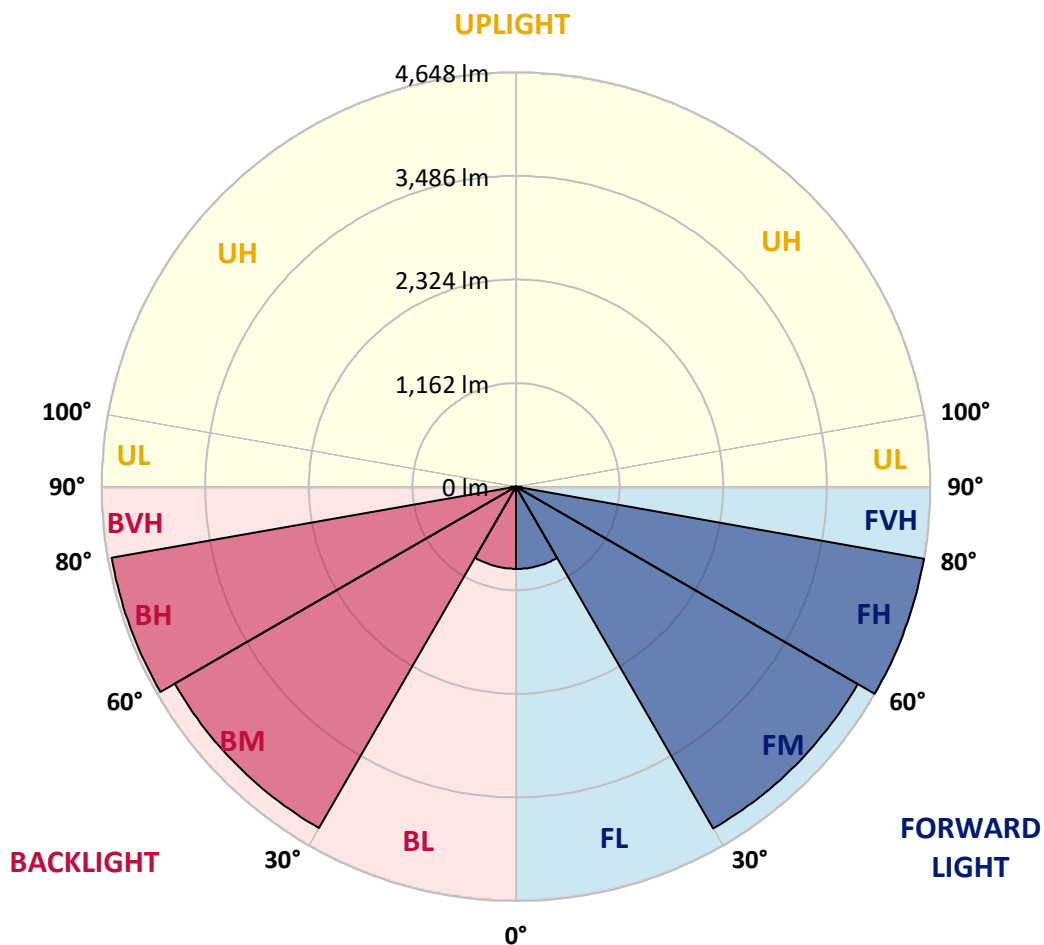


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.0	4.6			
FM (30°-60°)	4426.8	22.1			
FH (60°-80°)	4647.9	23.2			G2/5000
FVH (80°-90°)	62.0	0.3			G1/100
BL (0°-30°)	921.1	4.6	B2/1000		
BM (30°-60°)	4422.0	22.0	B3/5000		
BH (60°-80°)	4606.0	23.0	B4/5000		G2/5000
BVH (80°-90°)	59.2	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°	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1
2.5°	2141.7	2166.9	2185.2	2182.9	2189.8	2196.6	2187.5	2201.2	2192.1	2208.1	2217.3
5°	2182.9	2176.0	2178.3	2164.6	2196.6	2160.0	2160.0	2178.3	2201.2	2173.7	2189.8
7.5°	2157.7	2153.1	2141.7	2162.3	2169.2	2169.2	2187.5	2153.1	2192.1	2201.2	2203.5
10°	2130.2	2105.0	2139.4	2160.0	2164.6	2127.9	2144.0	2153.1	2141.7	2153.1	2160.0
12.5°	2107.3	2121.1	2121.1	2121.1	2114.2	2139.4	2155.4	2153.1	2130.2	2150.8	2114.2
15°	2105.0	2098.2	2118.8	2137.1	2125.6	2130.2	2137.1	2157.7	2114.2	2123.3	2123.3
17.5°	2102.7	2111.9	2118.8	2116.5	2155.4	2155.4	2148.5	2134.8	2169.2	2150.8	2125.6
20°	2111.9	2105.0	2123.3	2130.2	2157.7	2212.7	2192.1	2180.6	2162.3	2139.4	2139.4
22.5°	2123.3	2118.8	2144.0	2173.7	2226.4	2240.2	2237.9	2224.1	2192.1	2164.6	2160.0
25°	2164.6	2123.3	2150.8	2208.1	2226.4	2253.9	2272.2	2253.9	2210.4	2217.3	2176.0
27.5°	2226.4	2219.6	2256.2	2295.1	2279.1	2304.3	2288.3	2302.0	2304.3	2269.9	2228.7
30°	2299.7	2279.1	2302.0	2377.6	2384.5	2412.0	2384.5	2347.8	2359.3	2329.5	2308.9
32.5°	2405.1	2398.2	2441.7	2492.1	2501.3	2487.5	2473.8	2494.4	2446.3	2423.4	2386.8
35°	2473.8	2503.6	2556.3	2595.2	2625.0	2611.2	2618.1	2597.5	2608.9	2560.8	2544.8
37.5°	2677.7	2666.2	2677.7	2744.1	2751.0	2744.1	2751.0	2773.9	2757.8	2716.6	2675.4
40°	2870.1	2851.7	2879.2	2954.8	2950.2	2973.1	2927.3	2952.5	2952.5	2874.7	2858.6
42.5°	3014.4	3076.2	3108.3	3170.1	3193.0	3172.4	3163.3	3167.8	3218.2	3126.6	3092.3
45°	3312.1	3309.9	3406.1	3440.4	3376.3	3371.7	3353.4	3408.4	3442.7	3390.0	3376.3
47.5°	3635.1	3651.2	3706.1	3719.9	3758.8	3687.8	3687.8	3694.7	3816.1	3692.4	3628.2
50°	3926.0	3946.6	4056.6	4164.2	4090.9	4015.4	4045.1	4081.8	4148.2	4031.4	3976.4
52.5°	4278.8	4391.0	4464.3	4521.6	4574.2	4521.6	4452.8	4494.1	4624.6	4468.9	4400.2
55°	4787.3	4876.6	4945.3	5050.7	5094.2	5023.2	5016.3	5011.7	5085.0	4920.1	4826.2
57.5°	5355.3	5318.7	5428.6	5591.3	5749.3	5680.6	5660.0	5664.6	5682.9	5449.2	5378.2
60°	6060.8	6102.1	6232.6	6374.6	6541.8	6638.0	6502.9	6425.0	6441.1	6122.7	6012.7
62.5°	6464.0	6555.6	6851.1	7339.0	7675.7	7975.7	7996.3	7490.1	7151.1	6532.7	6065.4
65°	6269.3	6255.5	6812.1	7714.6	8990.4	9863.2	9732.6	8504.8	7320.6	6338.0	5710.4
67.5°	5332.4	5295.8	5969.2	7400.8	9508.1	11413.9	11265.0	8791.2	6748.0	5607.3	4897.2
70°	3435.8	3426.7	4157.4	5641.6	8488.8	10479.3	10534.3	7984.9	5492.8	4107.0	3403.8
72.5°	1248.4	1323.9	1747.7	3032.7	5765.3	8017.0	8051.3	5911.9	3158.7	1898.9	1399.5
75°	460.4	474.1	552.0	984.9	2627.3	4922.4	5050.7	2867.8	1122.4	618.5	503.9
77.5°	265.7	268.0	295.5	366.5	778.8	1921.8	1999.7	870.4	435.2	329.8	304.6
80°	181.0	178.7	208.4	238.2	311.5	545.2	579.5	364.2	274.9	229.1	192.4
82.5°	105.4	112.2	153.5	169.5	190.1	240.5	245.1	226.8	206.2	169.5	126.0
85°	64.1	52.7	84.8	93.9	109.9	107.7	107.7	123.7	132.9	119.1	71.0
87.5°	16.0	16.0	20.6	22.9	29.8	22.9	25.2	48.1	64.1	59.6	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°	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1	2192.1
2.5°	2196.6	2189.8	2194.4	2219.6	2203.5	2155.4	2166.9	2192.1	2171.5	2160.0	2157.7
5°	2187.5	2201.2	2185.2	2189.8	2205.8	2166.9	2173.7	2205.8	2192.1	2196.6	2171.5
7.5°	2189.8	2196.6	2182.9	2162.3	2162.3	2194.4	2176.0	2180.6	2160.0	2194.4	2148.5
10°	2176.0	2157.7	2141.7	2153.1	2148.5	2139.4	2132.5	2146.3	2125.6	2155.4	2123.3
12.5°	2134.8	2139.4	2134.8	2130.2	2139.4	2162.3	2125.6	2130.2	2098.2	2102.7	2118.8
15°	2118.8	2132.5	2127.9	2153.1	2164.6	2130.2	2157.7	2130.2	2105.0	2091.3	2116.5
17.5°	2125.6	2146.3	2139.4	2157.7	2137.1	2162.3	2166.9	2155.4	2125.6	2114.2	2125.6
20°	2132.5	2125.6	2134.8	2166.9	2196.6	2171.5	2171.5	2164.6	2137.1	2121.1	2121.1
22.5°	2148.5	2137.1	2150.8	2176.0	2185.2	2224.1	2189.8	2173.7	2127.9	2086.7	2125.6
25°	2180.6	2187.5	2196.6	2187.5	2237.9	2233.3	2228.7	2217.3	2146.3	2148.5	2141.7
27.5°	2242.5	2203.5	2215.0	2269.9	2276.8	2295.1	2272.2	2292.9	2217.3	2219.6	2173.7
30°	2318.0	2276.8	2313.5	2361.6	2359.3	2393.6	2382.2	2386.8	2334.1	2304.3	2242.5
32.5°	2400.5	2395.9	2418.8	2448.6	2460.1	2478.4	2476.1	2476.1	2444.0	2366.1	2377.6
35°	2492.1	2524.2	2551.7	2583.8	2588.3	2611.2	2579.2	2583.8	2551.7	2494.4	2512.7
37.5°	2673.1	2670.8	2700.6	2739.5	2744.1	2725.8	2751.0	2739.5	2696.0	2657.0	2627.3
40°	2883.8	2838.0	2865.5	2957.1	2964.0	2931.9	2929.6	2927.3	2895.3	2810.5	2792.2
42.5°	3067.1	3126.6	3122.0	3151.8	3131.2	3115.2	3172.4	3140.4	3115.2	3025.8	3009.8
45°	3303.0	3321.3	3380.9	3477.1	3378.6	3378.6	3417.5	3392.3	3378.6	3312.1	3250.3
47.5°	3596.2	3612.2	3731.3	3738.2	3674.1	3630.5	3751.9	3756.5	3699.3	3648.9	3573.3
50°	3939.8	3946.6	4054.3	4164.2	4093.2	4010.8	4134.5	4182.6	4054.3	3985.6	3891.7
52.5°	4317.7	4297.1	4386.4	4592.6	4523.9	4498.7	4631.5	4643.0	4468.9	4361.2	4386.4
55°	4752.9	4725.4	4968.2	5107.9	5064.4	5018.6	5078.2	5105.7	4965.9	4789.6	4851.4
57.5°	5316.4	5330.1	5451.5	5589.0	5660.0	5671.4	5698.9	5671.4	5529.4	5350.7	5293.5
60°	5879.9	5921.1	6157.0	6415.9	6438.8	6640.3	6603.7	6466.3	6264.7	6010.4	6021.9
62.5°	6088.3	6053.9	6434.2	7066.4	7604.7	7973.4	7810.8	7322.9	6855.6	6393.0	6427.3
65°	5669.1	5753.9	6271.6	7261.1	8429.3	9888.3	9022.5	7673.4	6729.7	6131.8	6065.4
67.5°	4885.8	4949.9	5607.3	6651.8	8724.7	11065.7	9480.6	7178.6	5934.8	5160.6	5201.9
70°	3403.8	3435.8	4079.5	5449.2	7911.6	10442.7	8553.0	5513.4	4097.8	3266.3	3312.1
72.5°	1369.8	1447.6	1871.4	3282.4	5840.9	7934.5	5758.5	2893.0	1699.6	1264.4	1147.6
75°	506.2	508.5	597.8	1129.2	2773.9	4986.5	2597.5	930.0	542.9	444.4	423.8
77.5°	293.2	290.9	311.5	407.7	804.0	1947.0	737.6	364.2	295.5	265.7	254.3
80°	183.2	181.0	213.0	270.3	352.7	533.7	311.5	226.8	199.3	171.8	171.8
82.5°	116.8	119.1	167.2	199.3	215.3	235.9	181.0	160.3	148.9	98.5	96.2
85°	75.6	68.7	116.8	132.9	119.1	105.4	100.8	84.8	77.9	48.1	52.7
87.5°	34.4	36.6	59.6	66.4	43.5	25.2	25.2	18.3	18.3	11.5	11.5
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)