

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: P479458

Luminaire Tested: **IFLD-S-SA6A-827-U-5MQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479458
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

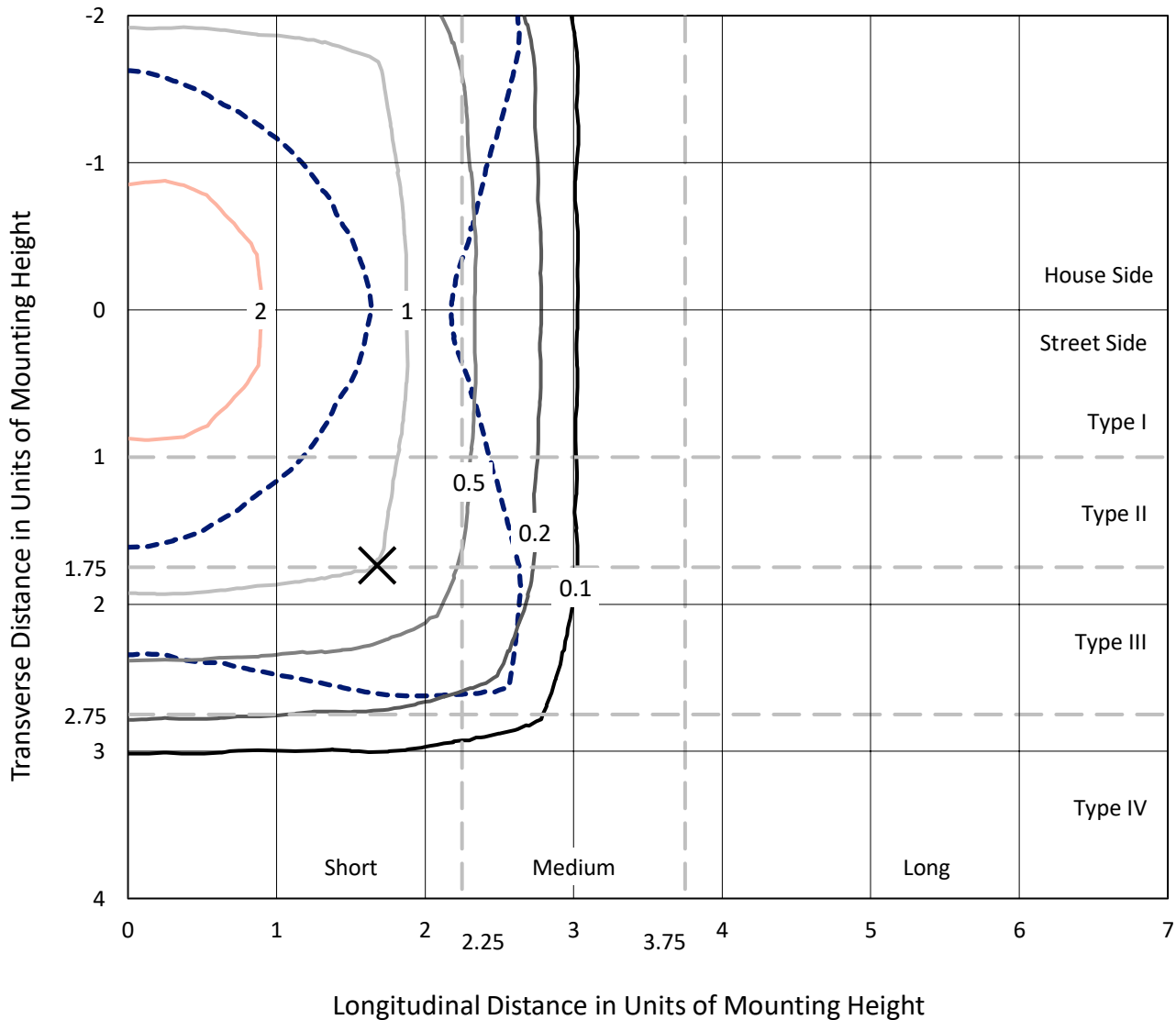
Lumens per Lamp: N/A
Luminaire Lumens: 20027 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

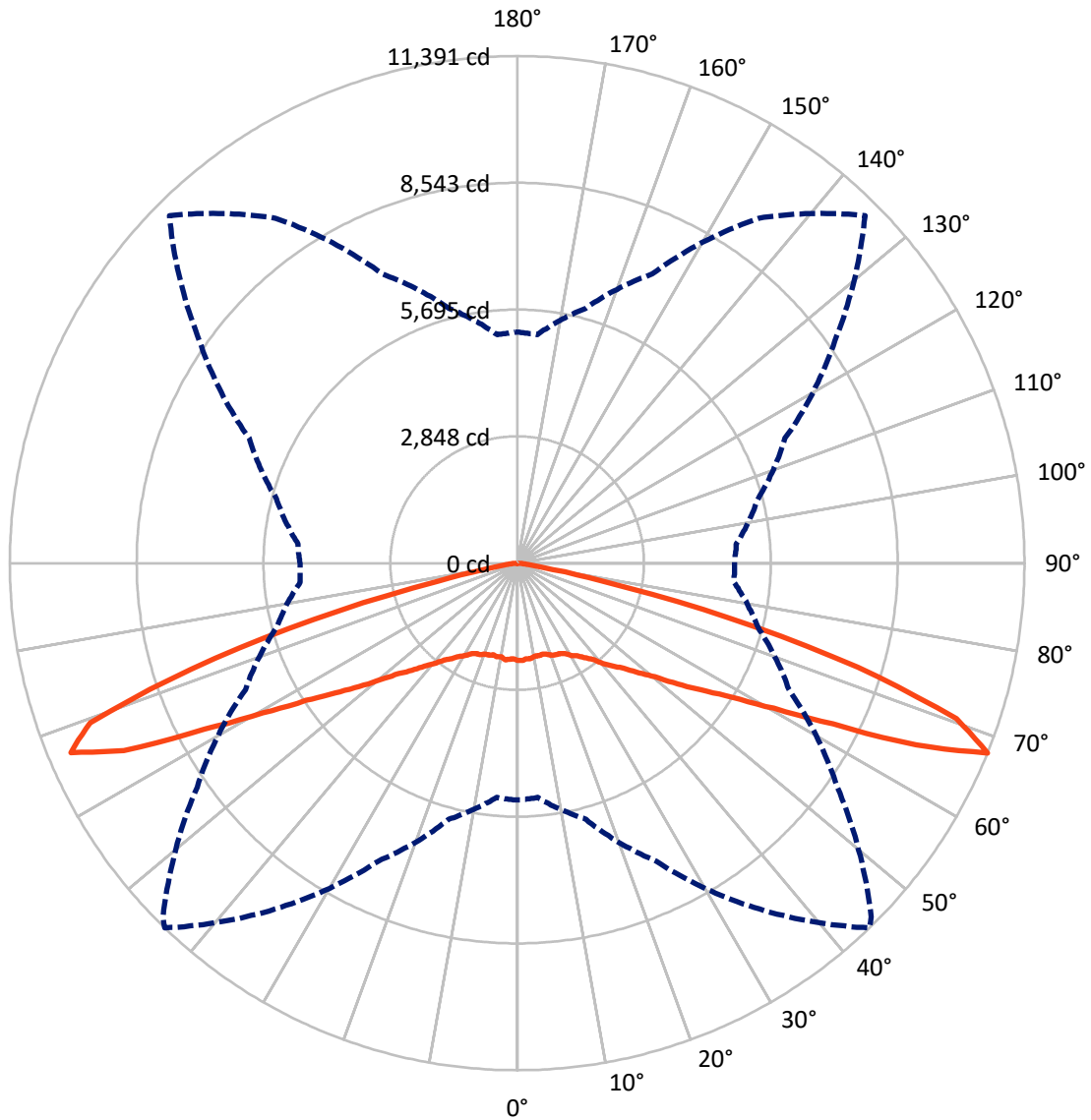
✕ Max cd
 - - - 1/2 Max cd



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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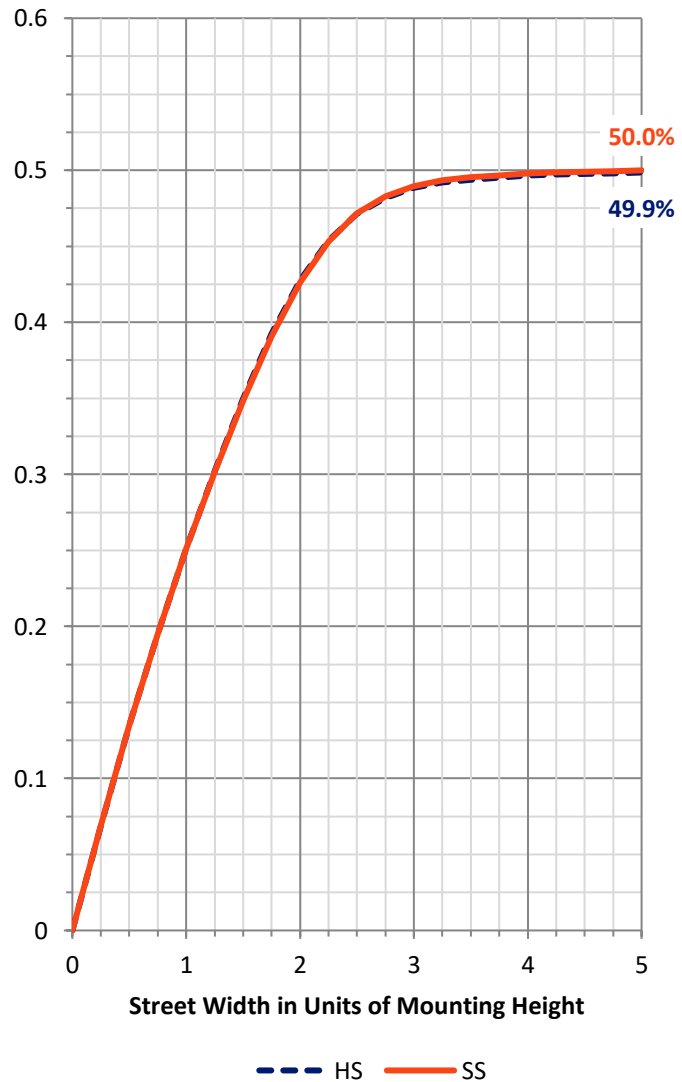
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9987.8	0.0	9987.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	10039.1	0.0	10039.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	20027.0	0.0	20027.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	1.0
10°-20°	604.8	3.0
20°-30°	1028.5	5.1
30°-40°	1630.7	8.1
40°-50°	2659.0	13.3
50°-60°	4541.1	22.7
60°-70°	6907.0	34.5
70°-80°	2328.1	11.6
80°-90°	120.9	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°	20027.0	100.0
0°-180°	20027.0	100.0

Coefficient of Utilization

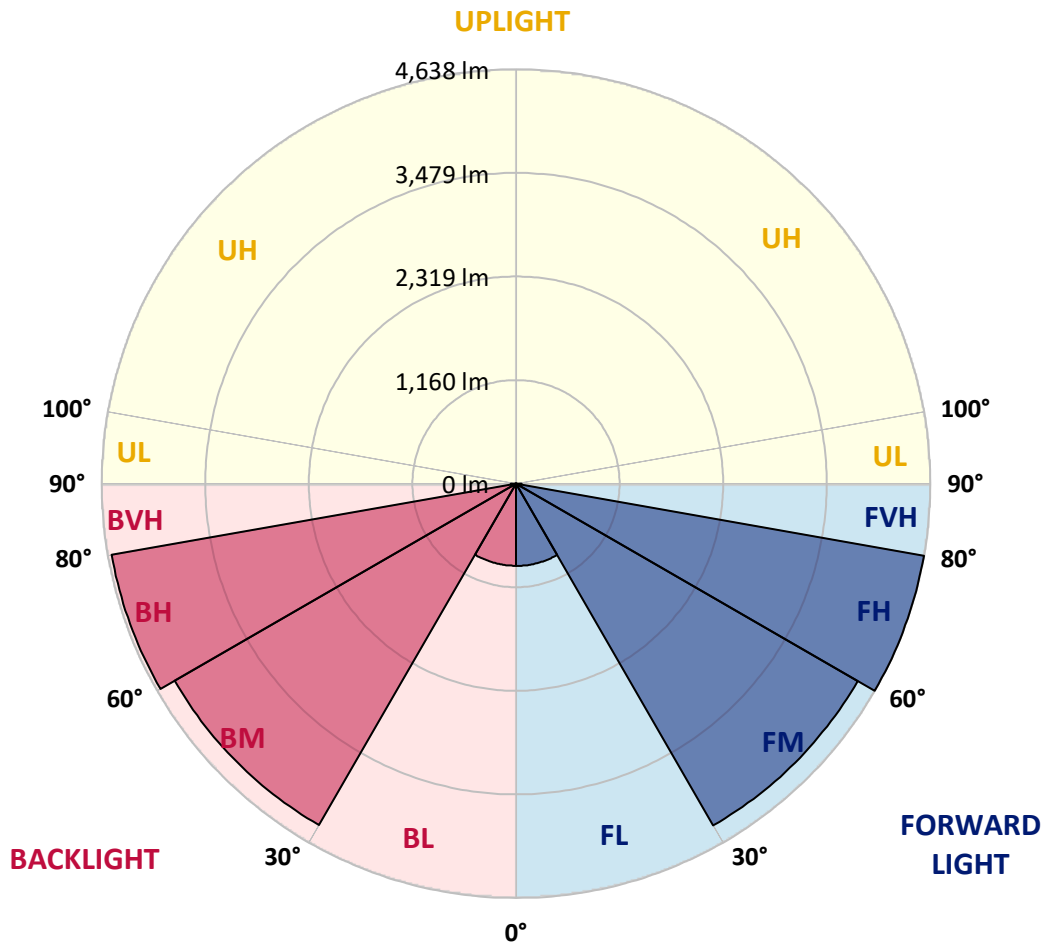


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.1	4.6			
FM (30°-60°)	4417.8	22.1			
FH (60°-80°)	4638.5	23.2			G2/5000
FVH (80°-90°)	61.8	0.3			G1/100
BL (0°-30°)	919.2	4.6	B2/1000		
BM (30°-60°)	4413.0	22.0	B3/5000		
BH (60°-80°)	4596.6	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°	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6
2.5°	2137.3	2162.5	2180.7	2178.5	2185.3	2192.2	2183.0	2196.7	2187.6	2203.6	2212.7
5°	2178.5	2171.6	2173.9	2160.2	2192.2	2155.6	2155.6	2173.9	2196.7	2169.3	2185.3
7.5°	2153.3	2148.7	2137.3	2157.9	2164.7	2164.7	2183.0	2148.7	2187.6	2196.7	2199.0
10°	2125.9	2100.7	2135.0	2155.6	2160.2	2123.6	2139.6	2148.7	2137.3	2148.7	2155.6
12.5°	2103.0	2116.7	2116.7	2116.7	2109.9	2135.0	2151.0	2148.7	2125.9	2146.5	2109.9
15°	2100.7	2093.9	2114.5	2132.7	2121.3	2125.9	2132.7	2153.3	2109.9	2119.0	2119.0
17.5°	2098.5	2107.6	2114.5	2112.2	2151.0	2151.0	2144.2	2130.5	2164.7	2146.5	2121.3
20°	2107.6	2100.7	2119.0	2125.9	2153.3	2208.2	2187.6	2176.2	2157.9	2135.0	2135.0
22.5°	2119.0	2114.5	2139.6	2169.3	2221.9	2235.6	2233.3	2219.6	2187.6	2160.2	2155.6
25°	2160.2	2119.0	2146.5	2203.6	2221.9	2249.3	2267.6	2249.3	2205.9	2212.7	2171.6
27.5°	2221.9	2215.0	2251.6	2290.5	2274.5	2299.6	2283.6	2297.3	2299.6	2265.3	2224.2
30°	2295.0	2274.5	2297.3	2372.8	2379.6	2407.0	2379.6	2343.0	2354.5	2324.8	2304.2
32.5°	2400.2	2393.3	2436.8	2487.1	2496.2	2482.5	2468.8	2489.3	2441.3	2418.5	2381.9
35°	2468.8	2498.5	2551.1	2589.9	2619.6	2605.9	2612.8	2592.2	2603.6	2555.6	2539.6
37.5°	2672.2	2660.8	2672.2	2738.5	2745.4	2738.5	2745.4	2768.2	2752.2	2711.1	2669.9
40°	2864.2	2845.9	2873.4	2948.8	2944.2	2967.1	2921.4	2946.5	2946.5	2868.8	2852.8
42.5°	3008.2	3070.0	3102.0	3163.7	3186.5	3166.0	3156.8	3161.4	3211.7	3120.2	3086.0
45°	3305.4	3303.1	3399.1	3433.4	3369.4	3364.8	3346.6	3401.4	3435.7	3383.1	3369.4
47.5°	3627.7	3643.7	3698.6	3712.3	3751.2	3680.3	3680.3	3687.1	3808.3	3684.9	3620.9
50°	3918.0	3938.6	4048.3	4155.8	4082.6	4007.2	4036.9	4073.5	4139.8	4023.2	3968.3
52.5°	4270.1	4382.1	4455.2	4512.4	4564.9	4512.4	4443.8	4484.9	4615.2	4459.8	4391.2
55°	4777.5	4866.7	4935.2	5040.4	5083.8	5013.0	5006.1	5001.5	5074.7	4910.1	4816.4
57.5°	5344.4	5307.8	5417.6	5579.9	5737.6	5669.0	5648.4	5653.0	5671.3	5438.1	5367.3
60°	6048.5	6089.6	6219.9	6361.6	6528.5	6624.5	6489.7	6411.9	6427.9	6110.2	6000.5
62.5°	6450.8	6542.2	6837.1	7324.0	7660.0	7959.5	7980.1	7474.9	7136.6	6519.4	6053.1
65°	6256.5	6242.8	6798.3	7698.9	8972.1	9843.1	9712.8	8487.5	7305.7	6325.1	5698.7
67.5°	5321.6	5285.0	5957.0	7385.7	9488.8	11390.6	11242.0	8773.3	6734.2	5595.9	4887.2
70°	3428.8	3419.7	4148.9	5630.2	8471.5	10458.0	10512.8	7968.6	5481.6	4098.6	3396.8
72.5°	1245.8	1321.2	1744.1	3026.5	5753.6	8000.6	8034.9	5899.9	3152.2	1895.0	1396.7
75°	459.5	473.2	550.9	982.9	2621.9	4912.4	5040.4	2861.9	1120.1	617.2	502.9
77.5°	265.2	267.4	294.9	365.7	777.2	1917.9	1995.6	868.6	434.3	329.2	304.0
80°	180.6	178.3	208.0	237.7	310.9	544.0	578.3	363.5	274.3	228.6	192.0
82.5°	105.2	112.0	153.2	169.2	189.7	240.0	244.6	226.3	205.7	169.2	125.7
85°	64.0	52.6	84.6	93.7	109.7	107.4	107.4	123.4	132.6	118.9	70.9
87.5°	16.0	16.0	20.6	22.9	29.7	22.9	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°	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6	2187.6
2.5°	2192.2	2185.3	2189.9	2215.0	2199.0	2151.0	2162.5	2187.6	2167.0	2155.6	2153.3
5°	2183.0	2196.7	2180.7	2185.3	2201.3	2162.5	2169.3	2201.3	2187.6	2192.2	2167.0
7.5°	2185.3	2192.2	2178.5	2157.9	2157.9	2189.9	2171.6	2176.2	2155.6	2189.9	2144.2
10°	2171.6	2153.3	2137.3	2148.7	2144.2	2135.0	2128.2	2141.9	2121.3	2151.0	2119.0
12.5°	2130.5	2135.0	2130.5	2125.9	2135.0	2157.9	2121.3	2125.9	2093.9	2098.5	2114.5
15°	2114.5	2128.2	2123.6	2148.7	2160.2	2125.9	2153.3	2125.9	2100.7	2087.0	2112.2
17.5°	2121.3	2141.9	2135.0	2153.3	2132.7	2157.9	2162.5	2151.0	2121.3	2109.9	2121.3
20°	2128.2	2121.3	2130.5	2162.5	2192.2	2167.0	2167.0	2160.2	2132.7	2116.7	2116.7
22.5°	2144.2	2132.7	2146.5	2171.6	2180.7	2219.6	2185.3	2169.3	2123.6	2082.5	2121.3
25°	2176.2	2183.0	2192.2	2183.0	2233.3	2228.7	2224.2	2212.7	2141.9	2144.2	2137.3
27.5°	2237.9	2199.0	2210.5	2265.3	2272.2	2290.5	2267.6	2288.2	2212.7	2215.0	2169.3
30°	2313.3	2272.2	2308.8	2356.8	2354.5	2388.8	2377.3	2381.9	2329.3	2299.6	2237.9
32.5°	2395.6	2391.0	2413.9	2443.6	2455.1	2473.3	2471.1	2471.1	2439.1	2361.3	2372.8
35°	2487.1	2519.1	2546.5	2578.5	2583.1	2605.9	2573.9	2578.5	2546.5	2489.3	2507.6
37.5°	2667.6	2665.4	2695.1	2733.9	2738.5	2720.2	2745.4	2733.9	2690.5	2651.6	2621.9
40°	2877.9	2832.2	2859.7	2951.1	2957.9	2925.9	2923.7	2921.4	2889.4	2804.8	2786.5
42.5°	3060.8	3120.2	3115.7	3145.4	3124.8	3108.8	3166.0	3134.0	3108.8	3019.7	3003.7
45°	3296.3	3314.5	3374.0	3470.0	3371.7	3371.7	3410.6	3385.4	3371.7	3305.4	3243.7
47.5°	3588.9	3604.9	3723.7	3730.6	3666.6	3623.1	3744.3	3748.9	3691.7	3641.4	3566.0
50°	3931.7	3938.6	4046.0	4155.8	4084.9	4002.6	4126.0	4174.0	4046.0	3977.5	3883.7
52.5°	4308.9	4288.3	4377.5	4583.2	4514.6	4489.5	4622.1	4633.5	4459.8	4352.3	4377.5
55°	4743.2	4715.8	4958.1	5097.5	5054.1	5008.4	5067.8	5095.3	4955.8	4779.8	4841.5
57.5°	5305.6	5319.3	5440.4	5577.6	5648.4	5659.9	5687.3	5659.9	5518.2	5339.9	5282.7
60°	5867.9	5909.0	6144.5	6402.8	6425.7	6626.8	6590.2	6453.1	6251.9	5998.2	6009.6
62.5°	6075.9	6041.6	6421.1	7052.0	7589.2	7957.2	7794.9	7308.0	6841.7	6379.9	6414.2
65°	5657.6	5742.2	6258.8	7246.3	8412.1	9868.2	9004.1	7657.7	6716.0	6119.3	6053.1
67.5°	4875.8	4939.8	5595.9	6638.2	8707.0	11043.2	9461.3	7164.0	5922.8	5150.1	5191.3
70°	3396.8	3428.8	4071.2	5438.1	7895.5	10421.4	8535.5	5502.2	4089.5	3259.7	3305.4
72.5°	1367.0	1444.7	1867.6	3275.7	5829.0	7918.3	5746.7	2887.1	1696.1	1261.8	1145.2
75°	505.2	507.5	596.6	1126.9	2768.2	4976.4	2592.2	928.1	541.8	443.5	422.9
77.5°	292.6	290.3	310.9	406.9	802.3	1943.0	736.1	363.5	294.9	265.2	253.7
80°	182.9	180.6	212.6	269.7	352.0	532.6	310.9	226.3	198.9	171.4	171.4
82.5°	116.6	118.9	166.9	198.9	214.9	235.4	180.6	160.0	148.6	98.3	96.0
85°	75.4	68.6	116.6	132.6	118.9	105.2	100.6	84.6	77.7	48.0	52.6
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)