

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: P479212

Luminaire Tested: **IFLD-S-SA3D-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479212
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

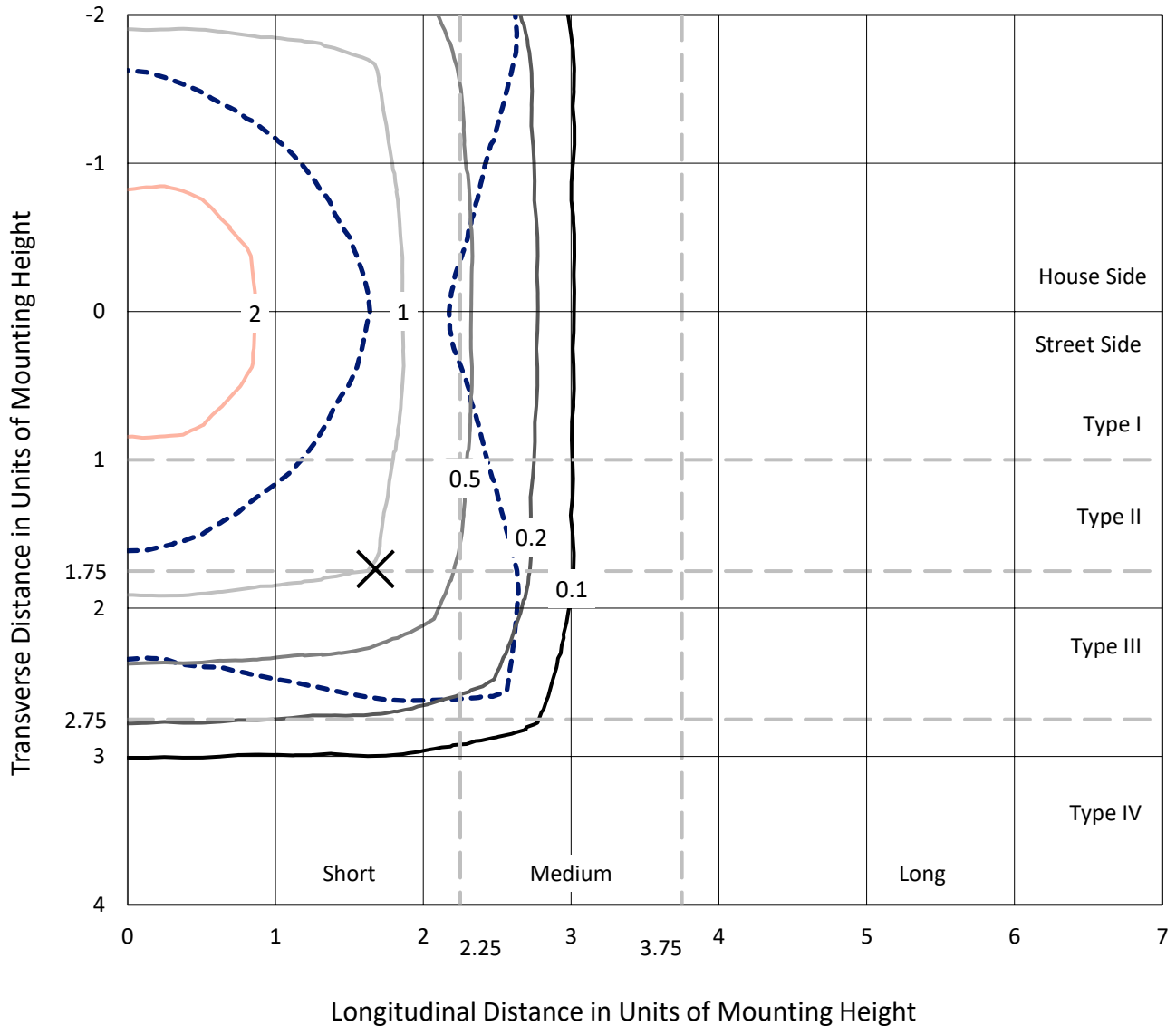
Lumens per Lamp: N/A
Luminaire Lumens: 19675 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 184.1
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

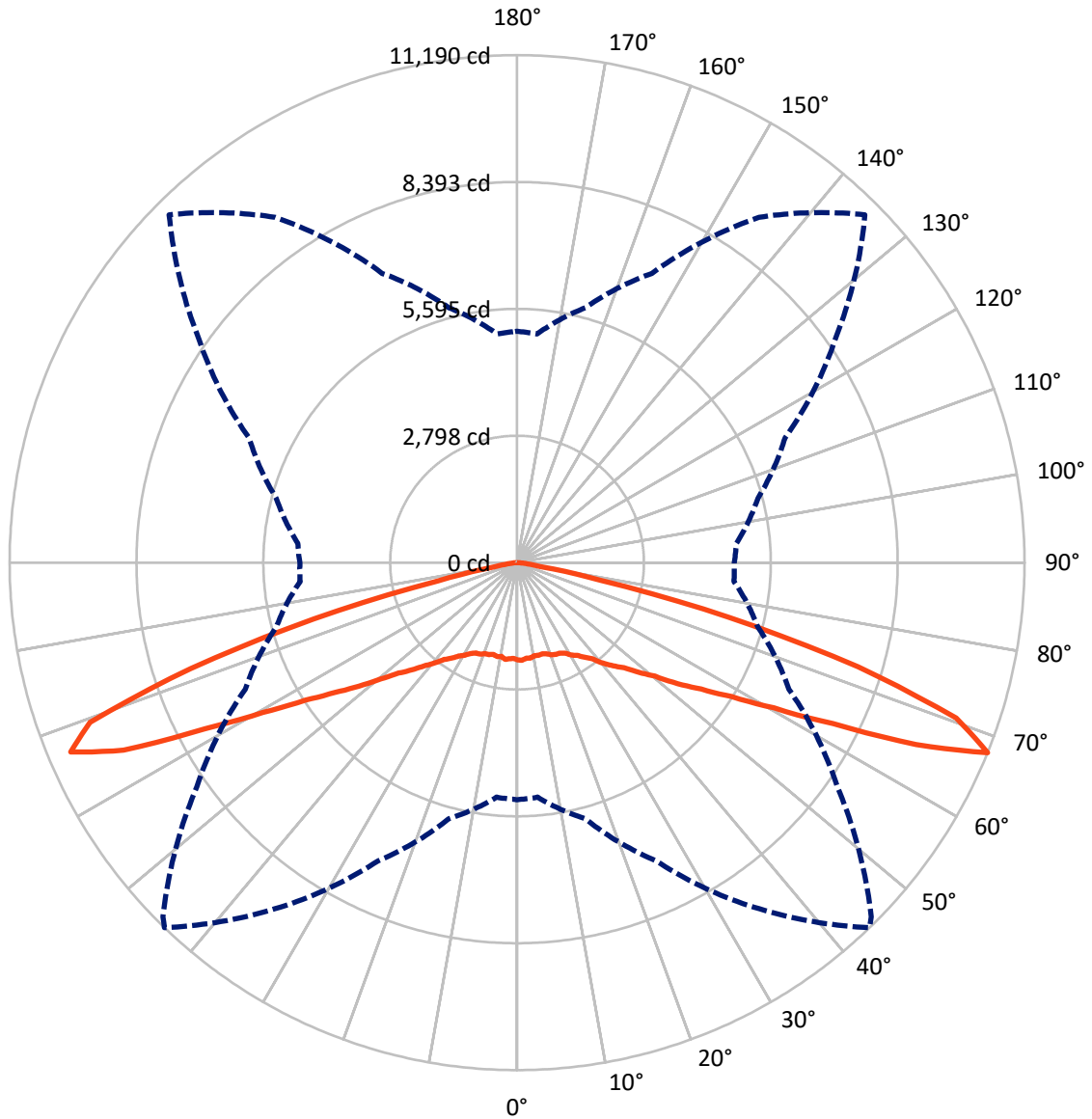
✕ Max cd
 - - - 1/2 Max cd



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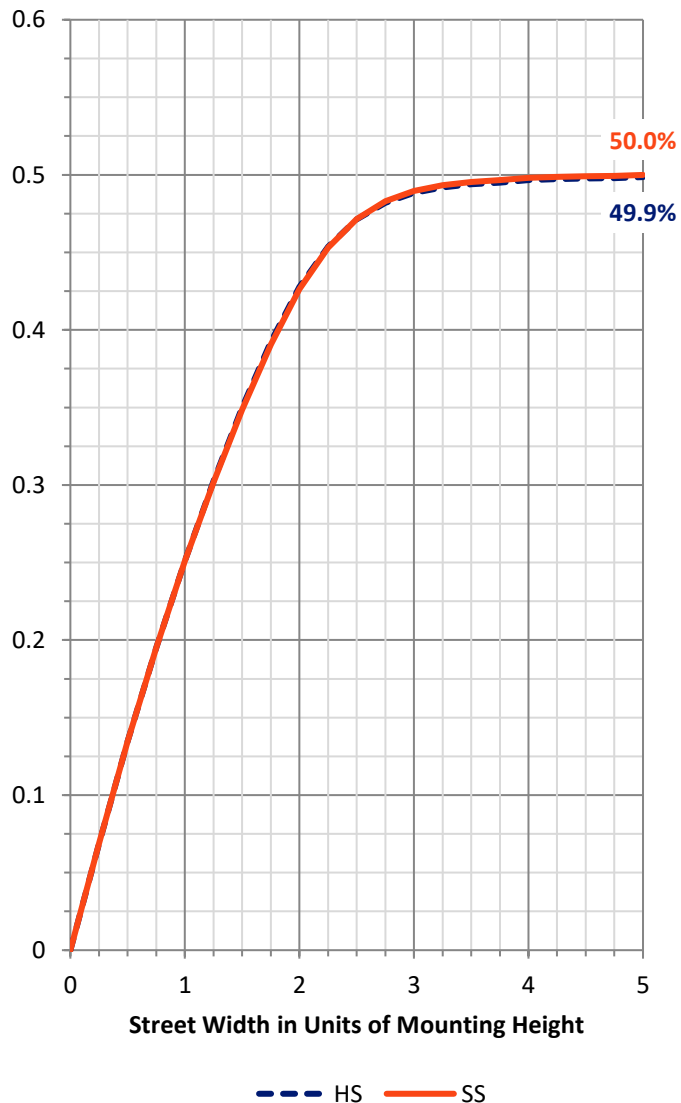
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9812.3	0.0	9812.3
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	9862.7	0.0	9862.7
	% Fixture	50.1	0.0	50.1
Total	Lumens	19675.0	0.0	19675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.0
10°-20°	594.2	3.0
20°-30°	1010.4	5.1
30°-40°	1602.0	8.1
40°-50°	2612.2	13.3
50°-60°	4461.3	22.7
60°-70°	6785.6	34.5
70°-80°	2287.2	11.6
80°-90°	118.8	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°	19675.0	100.0
0°-180°	19675.0	100.0

Coefficient of Utilization



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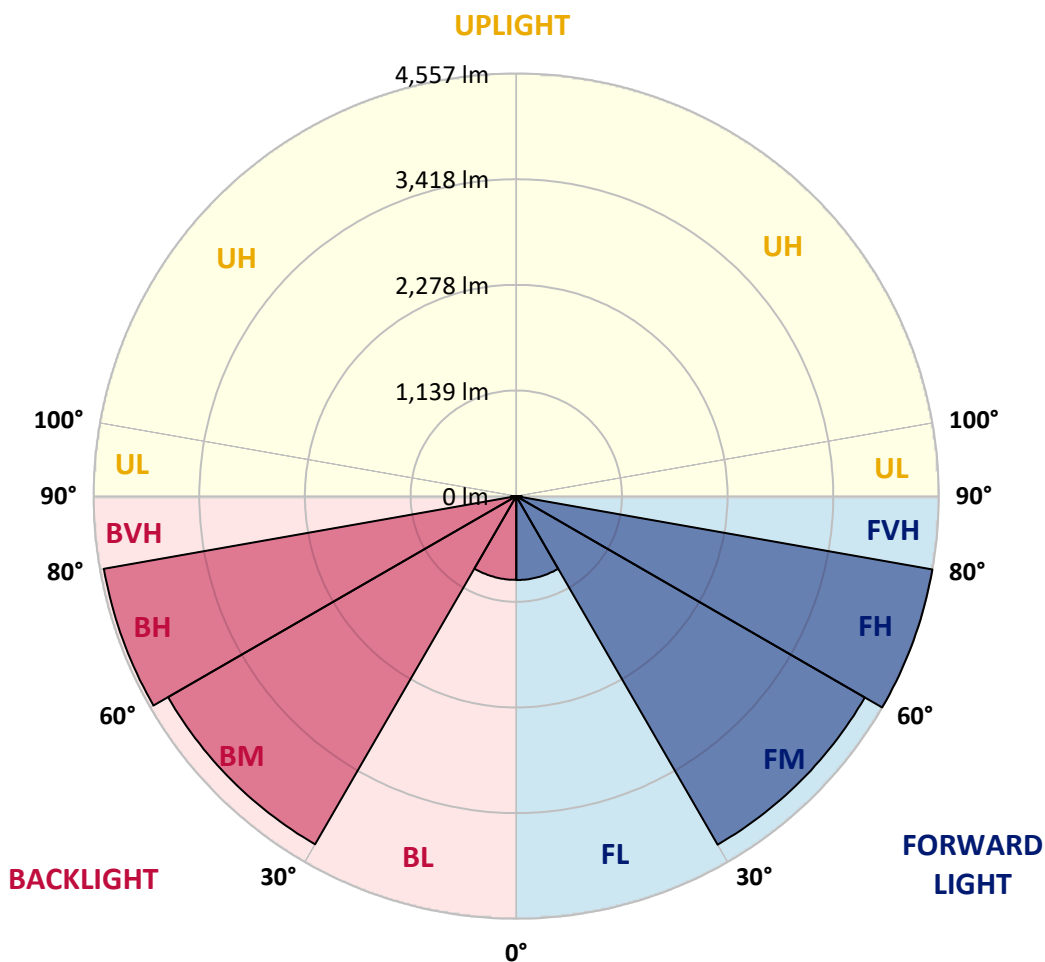
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.9	4.6			
FM (30°-60°)	4340.1	22.1			
FH (60°-80°)	4556.9	23.2			G2/5000
FVH (80°-90°)	60.8	0.3			G1/100
BL (0°-30°)	903.0	4.6	B2/1000		
BM (30°-60°)	4335.4	22.0	B3/5000		
BH (60°-80°)	4515.9	23.0	B4/5000		G2/5000
BVH (80°-90°)	58.0	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°	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2
2.5°	2099.8	2124.5	2142.4	2140.2	2146.9	2153.7	2144.7	2158.1	2149.2	2164.9	2173.9
5°	2140.2	2133.4	2135.7	2122.2	2153.7	2117.7	2117.7	2135.7	2158.1	2131.2	2146.9
7.5°	2115.5	2111.0	2099.8	2120.0	2126.7	2126.7	2144.7	2111.0	2149.2	2158.1	2160.4
10°	2088.5	2063.8	2097.5	2117.7	2122.2	2086.3	2102.0	2111.0	2099.8	2111.0	2117.7
12.5°	2066.1	2079.5	2079.5	2079.5	2072.8	2097.5	2113.2	2111.0	2088.5	2108.7	2072.8
15°	2063.8	2057.1	2077.3	2095.3	2084.0	2088.5	2095.3	2115.5	2072.8	2081.8	2081.8
17.5°	2061.6	2070.6	2077.3	2075.1	2113.2	2113.2	2106.5	2093.0	2126.7	2108.7	2084.0
20°	2070.6	2063.8	2081.8	2088.5	2115.5	2169.4	2149.2	2137.9	2120.0	2097.5	2097.5
22.5°	2081.8	2077.3	2102.0	2131.2	2182.8	2196.3	2194.1	2180.6	2149.2	2122.2	2117.7
25°	2122.2	2081.8	2108.7	2164.9	2182.8	2209.8	2227.8	2209.8	2167.1	2173.9	2133.4
27.5°	2182.8	2176.1	2212.0	2250.2	2234.5	2259.2	2243.5	2257.0	2259.2	2225.5	2185.1
30°	2254.7	2234.5	2257.0	2331.1	2337.8	2364.7	2337.8	2301.9	2313.1	2283.9	2263.7
32.5°	2358.0	2351.3	2393.9	2443.3	2452.3	2438.9	2425.4	2445.6	2398.4	2376.0	2340.0
35°	2425.4	2454.6	2506.2	2544.4	2573.6	2560.1	2566.9	2546.7	2557.9	2510.7	2495.0
37.5°	2625.3	2614.0	2625.3	2690.4	2697.1	2690.4	2697.1	2719.6	2703.9	2663.4	2623.0
40°	2813.9	2795.9	2822.9	2897.0	2892.5	2915.0	2870.0	2894.7	2894.7	2818.4	2802.7
42.5°	2955.4	3016.0	3047.4	3108.1	3130.5	3110.3	3101.3	3105.8	3155.2	3065.4	3031.7
45°	3247.3	3245.1	3339.4	3373.1	3310.2	3305.7	3287.7	3341.6	3375.3	3323.7	3310.2
47.5°	3564.0	3579.7	3633.6	3647.1	3685.2	3615.6	3615.6	3622.4	3741.4	3620.1	3557.2
50°	3849.2	3869.4	3977.2	4082.7	4010.9	3936.8	3966.0	4001.9	4067.0	3952.5	3898.6
52.5°	4195.0	4305.1	4376.9	4433.1	4484.7	4433.1	4365.7	4406.1	4534.1	4381.4	4314.0
55°	4693.6	4781.1	4848.5	4951.8	4994.5	4924.9	4918.1	4913.6	4985.5	4823.8	4731.7
57.5°	5250.5	5214.6	5322.4	5481.8	5636.8	5569.4	5549.2	5553.7	5571.6	5342.6	5273.0
60°	5942.2	5982.6	6110.6	6249.9	6413.8	6508.1	6375.6	6299.3	6315.0	6002.8	5895.0
62.5°	6337.4	6427.3	6717.0	7195.3	7525.4	7819.6	7839.8	7343.5	7011.2	6404.8	5946.7
65°	6146.6	6133.1	6678.8	7563.6	8814.5	9670.1	9542.1	8338.4	7177.3	6213.9	5598.6
67.5°	5228.0	5192.1	5852.4	7255.9	9322.0	11190.4	11044.5	8619.1	6615.9	5497.5	4801.4
70°	3368.6	3359.6	4076.0	5531.2	8322.7	10274.2	10328.1	7828.6	5385.2	4026.6	3337.1
72.5°	1223.9	1298.0	1713.5	2973.3	5652.5	7860.0	7893.7	5796.2	3096.9	1861.7	1372.1
75°	451.4	464.9	541.2	965.7	2575.8	4826.1	4951.8	2811.6	1100.4	606.3	494.1
77.5°	260.5	262.7	289.7	359.3	763.5	1884.2	1960.5	853.4	426.7	323.4	298.7
80°	177.4	175.2	204.4	233.6	305.4	534.5	568.2	357.1	269.5	224.6	188.6
82.5°	103.3	110.0	150.5	166.2	186.4	235.8	240.3	222.3	202.1	166.2	123.5
85°	62.9	51.7	83.1	92.1	107.8	105.5	105.5	121.3	130.3	116.8	69.6
87.5°	15.7	15.7	20.2	22.5	29.2	22.5	24.7	47.2	62.9	58.4	35.9
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°	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2	2149.2
2.5°	2153.7	2146.9	2151.4	2176.1	2160.4	2113.2	2124.5	2149.2	2128.9	2117.7	2115.5
5°	2144.7	2158.1	2142.4	2146.9	2162.6	2124.5	2131.2	2162.6	2149.2	2153.7	2128.9
7.5°	2146.9	2153.7	2140.2	2120.0	2120.0	2151.4	2133.4	2137.9	2117.7	2151.4	2106.5
10°	2133.4	2115.5	2099.8	2111.0	2106.5	2097.5	2090.8	2104.2	2084.0	2113.2	2081.8
12.5°	2093.0	2097.5	2093.0	2088.5	2097.5	2120.0	2084.0	2088.5	2057.1	2061.6	2077.3
15°	2077.3	2090.8	2086.3	2111.0	2122.2	2088.5	2115.5	2088.5	2063.8	2050.3	2075.1
17.5°	2084.0	2104.2	2097.5	2115.5	2095.3	2120.0	2124.5	2113.2	2084.0	2072.8	2084.0
20°	2090.8	2084.0	2093.0	2124.5	2153.7	2128.9	2128.9	2122.2	2095.3	2079.5	2079.5
22.5°	2106.5	2095.3	2108.7	2133.4	2142.4	2180.6	2146.9	2131.2	2086.3	2045.9	2084.0
25°	2137.9	2144.7	2153.7	2144.7	2194.1	2189.6	2185.1	2173.9	2104.2	2106.5	2099.8
27.5°	2198.6	2160.4	2171.6	2225.5	2232.3	2250.2	2227.8	2248.0	2173.9	2176.1	2131.2
30°	2272.7	2232.3	2268.2	2315.3	2313.1	2346.8	2335.6	2340.0	2288.4	2259.2	2198.6
32.5°	2353.5	2349.0	2371.5	2400.7	2411.9	2429.9	2427.6	2427.6	2396.2	2319.8	2331.1
35°	2443.3	2474.8	2501.7	2533.2	2537.7	2560.1	2528.7	2533.2	2501.7	2445.6	2463.6
37.5°	2620.8	2618.5	2647.7	2685.9	2690.4	2672.4	2697.1	2685.9	2643.2	2605.0	2575.8
40°	2827.4	2782.5	2809.4	2899.2	2906.0	2874.5	2872.3	2870.0	2838.6	2755.5	2737.5
42.5°	3007.0	3065.4	3060.9	3090.1	3069.9	3054.2	3110.3	3078.9	3054.2	2966.6	2950.9
45°	3238.3	3256.3	3314.7	3409.0	3312.4	3312.4	3350.6	3325.9	3312.4	3247.3	3186.7
47.5°	3525.8	3541.5	3658.3	3665.0	3602.1	3559.5	3678.5	3683.0	3626.8	3577.4	3503.3
50°	3862.6	3869.4	3974.9	4082.7	4013.1	3932.3	4053.5	4100.7	3974.9	3907.6	3815.5
52.5°	4233.2	4213.0	4300.6	4502.7	4435.3	4410.6	4540.9	4552.1	4381.4	4275.9	4300.6
55°	4659.9	4632.9	4871.0	5008.0	4965.3	4920.4	4978.8	5005.7	4868.7	4695.8	4756.4
57.5°	5212.3	5225.8	5344.8	5479.6	5549.2	5560.4	5587.4	5560.4	5421.2	5246.0	5189.9
60°	5764.8	5805.2	6036.5	6290.3	6312.7	6510.4	6474.4	6339.7	6142.1	5892.8	5904.0
62.5°	5969.1	5935.5	6308.2	6928.1	7455.8	7817.4	7657.9	7179.6	6721.5	6267.8	6301.5
65°	5558.2	5641.3	6148.8	7118.9	8264.3	9694.8	8845.9	7523.2	6597.9	6011.8	5946.7
67.5°	4790.1	4853.0	5497.5	6521.6	8554.0	10849.1	9295.1	7038.1	5818.7	5059.6	5100.0
70°	3337.1	3368.6	3999.6	5342.6	7756.7	10238.3	8385.5	5405.5	4017.6	3202.4	3247.3
72.5°	1342.9	1419.3	1834.8	3218.1	5726.6	7779.2	5645.8	2836.4	1666.3	1239.6	1125.1
75°	496.3	498.6	586.1	1107.1	2719.6	4888.9	2546.7	911.8	532.2	435.7	415.5
77.5°	287.5	285.2	305.4	399.7	788.2	1908.9	723.1	357.1	289.7	260.5	249.3
80°	179.7	177.4	208.9	265.0	345.8	523.3	305.4	222.3	195.4	168.4	168.4
82.5°	114.5	116.8	163.9	195.4	211.1	231.3	177.4	157.2	146.0	96.6	94.3
85°	74.1	67.4	114.5	130.3	116.8	103.3	98.8	83.1	76.4	47.2	51.7
87.5°	33.7	35.9	58.4	65.1	42.7	24.7	24.7	18.0	18.0	11.2	11.2
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)