

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: P480027

Luminaire Tested: **IFLD-S-SA2E-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480027
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

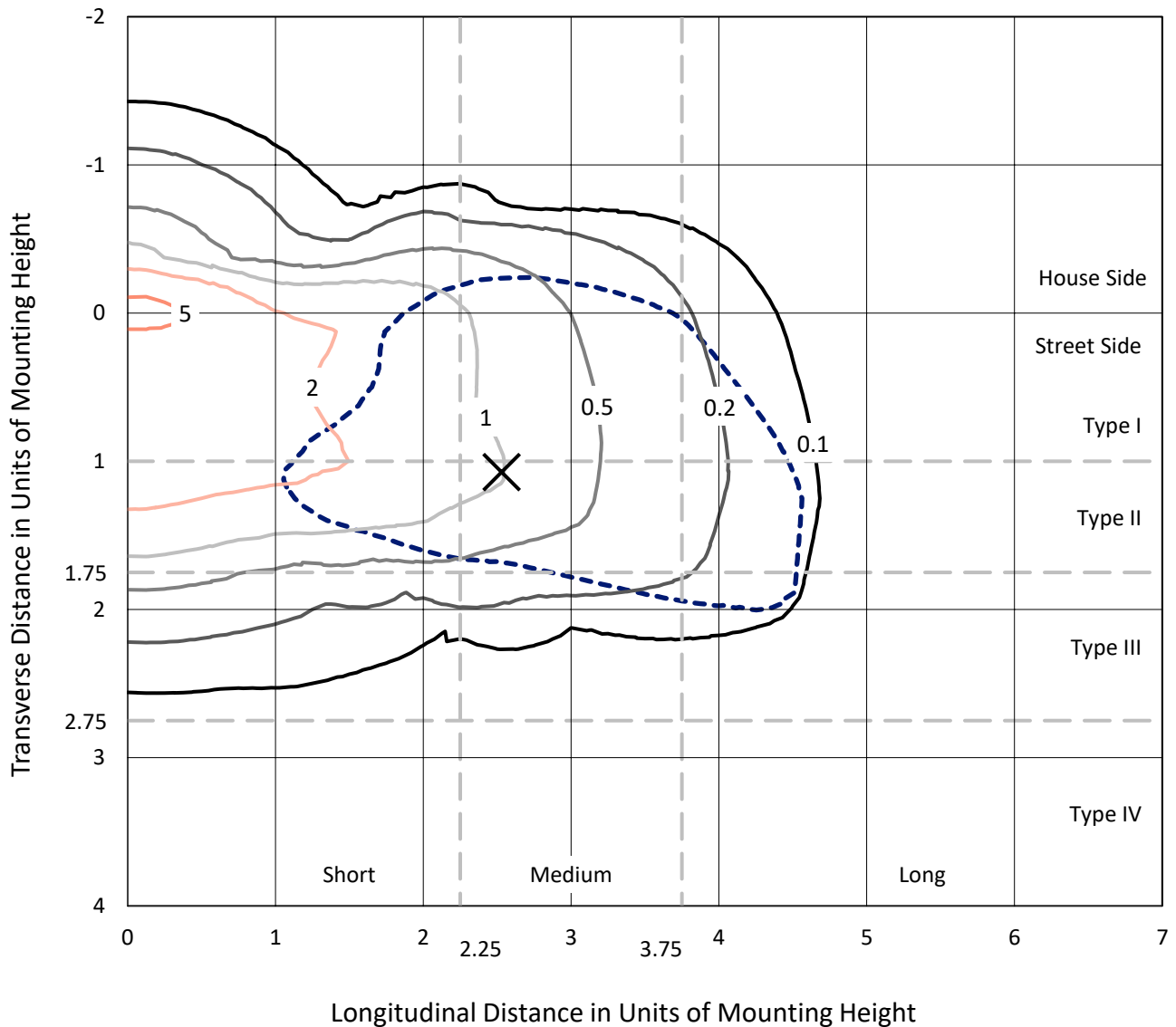
Lumens per Lamp: N/A
Luminaire Lumens: 16432.8 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
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

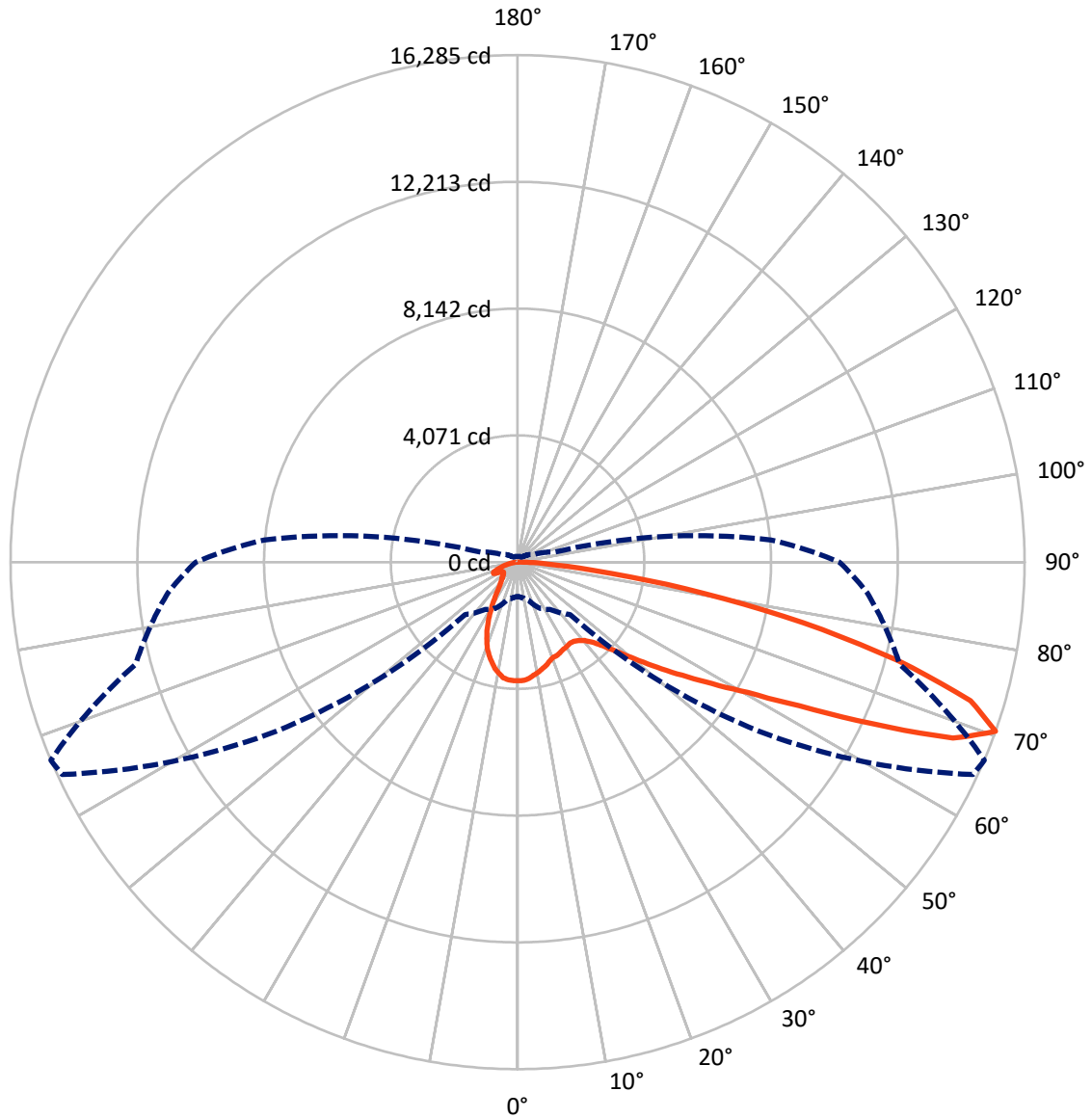
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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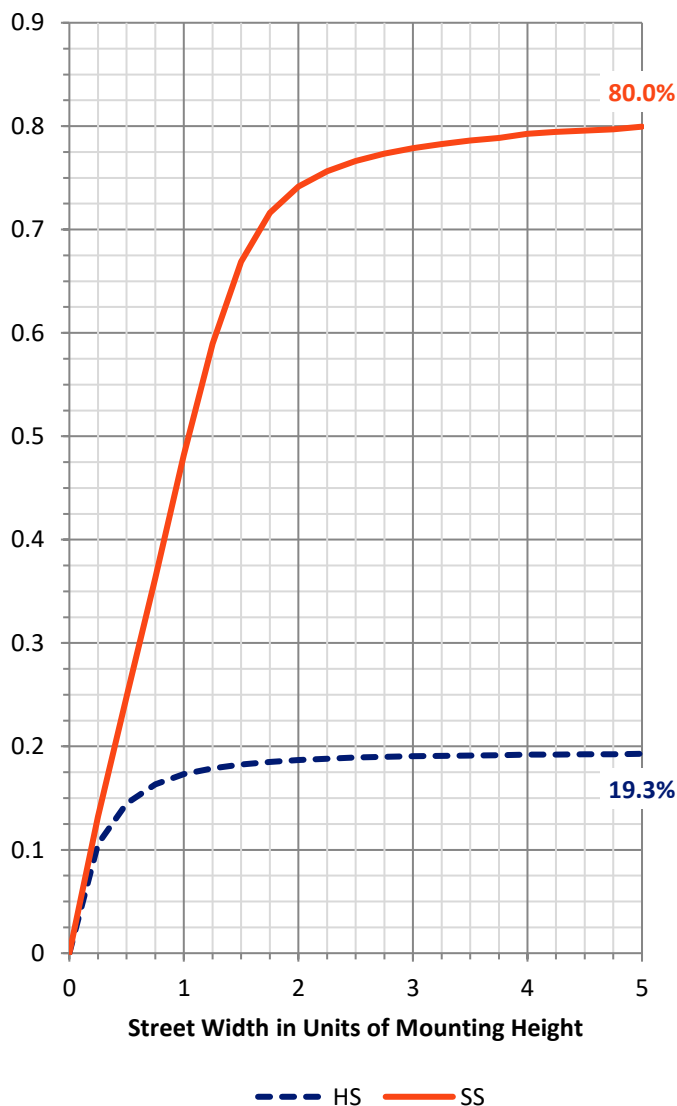
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3200.4	0.0	3200.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13232.4	0.0	13232.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	16432.8	0.0	16432.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.9	2.0
10°-20°	794.9	4.8
20°-30°	1073.5	6.5
30°-40°	1436.4	8.7
40°-50°	2112.3	12.9
50°-60°	3292.5	20.0
60°-70°	4055.8	24.7
70°-80°	2865.8	17.4
80°-90°	469.7	2.9
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°	16432.8	100.0
0°-180°	16432.8	100.0

Coefficient of Utilization

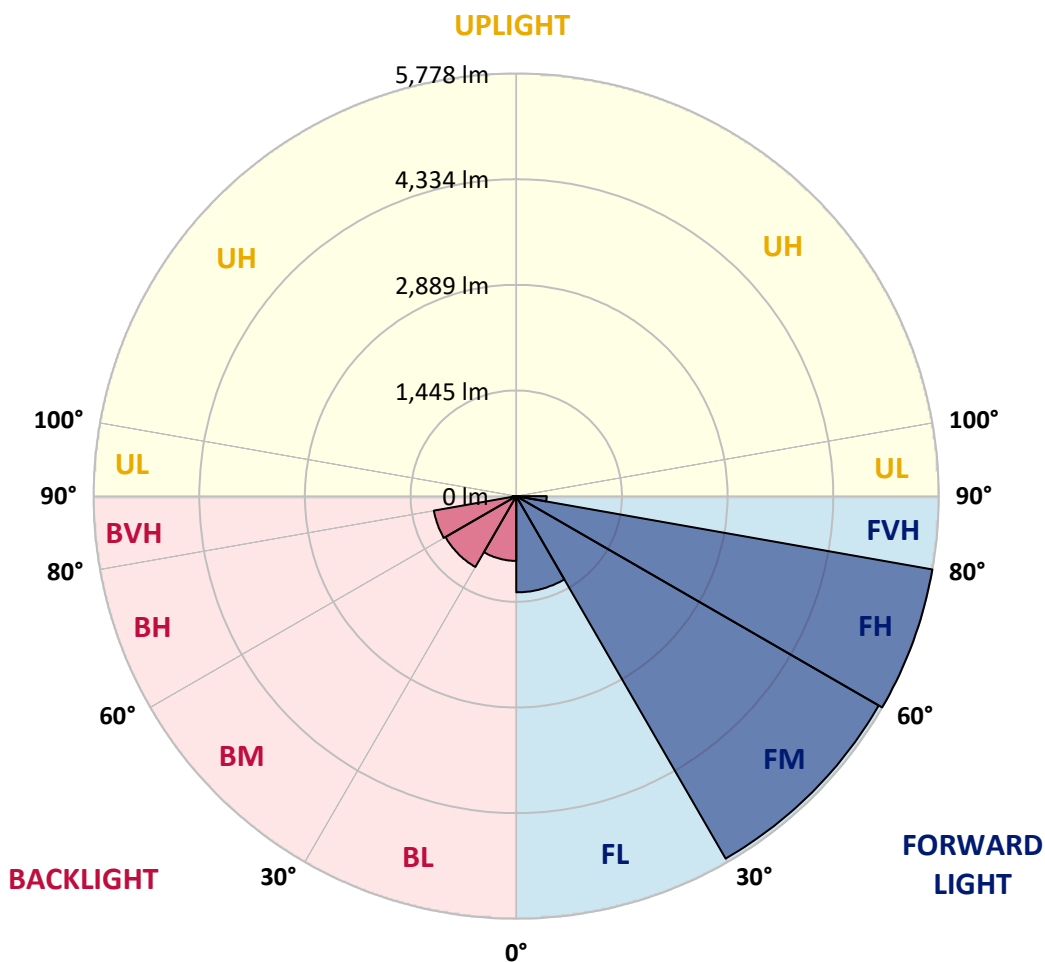


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1315.3	8.0			
FM (30°-60°)	5723.2	34.8			
FH (60°-80°)	5778.3	35.2			G3/7500
FVH (80°-90°)	415.5	2.5			G3/500
BL (0°-30°)	885.0	5.4	B2/1000		
BM (30°-60°)	1118.0	6.8	B2/2500		
BH (60°-80°)	1143.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	54.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1
2.5°	3542.2	3582.2	3596.7	3618.6	3675.0	3716.8	3742.3	3771.4	3806.0	3835.1	3853.3
5°	3294.7	3316.6	3351.1	3374.8	3445.7	3558.5	3634.9	3758.7	3755.0	3800.5	3869.6
7.5°	3054.6	3076.4	3092.8	3140.1	3242.0	3343.9	3483.9	3684.1	3669.5	3775.0	3882.4
10°	2905.4	2889.0	2894.5	2974.5	3054.6	3169.2	3345.7	3549.4	3602.2	3765.9	3918.8
12.5°	2765.3	2747.1	2790.8	2841.7	2940.0	3043.7	3254.7	3438.5	3518.5	3733.2	3935.1
15°	2678.0	2665.3	2719.8	2741.7	2858.1	2981.8	3131.0	3354.8	3442.1	3693.2	3909.7
17.5°	2628.9	2639.8	2659.8	2707.1	2781.7	2887.2	3051.0	3298.4	3336.6	3644.0	3904.2
20°	2638.0	2650.7	2652.5	2672.5	2723.5	2805.3	2972.7	3238.3	3263.8	3634.9	3918.8
22.5°	2710.7	2692.6	2699.8	2687.1	2701.6	2765.3	2912.7	3158.3	3256.5	3558.5	3887.8
25°	2819.9	2794.4	2790.8	2747.1	2719.8	2738.0	2901.8	3138.3	3202.0	3534.9	3886.0
27.5°	3012.7	2974.5	2974.5	2909.0	2798.1	2769.0	2870.8	3105.5	3161.9	3513.1	3844.2
30°	3198.3	3198.3	3200.1	3107.4	2983.6	2839.9	2883.6	3092.8	3129.2	3447.6	3787.8
32.5°	3423.9	3418.4	3409.4	3363.9	3172.8	2958.2	2945.4	3076.4	3094.6	3425.7	3771.4
35°	3644.0	3629.5	3700.4	3660.4	3465.8	3189.2	3009.1	3083.7	3123.7	3393.0	3720.5
37.5°	3809.6	3818.7	3966.1	3991.5	3824.2	3451.2	3189.2	3156.5	3194.7	3440.3	3720.5
40°	4024.3	4060.7	4198.9	4284.4	4182.6	3796.9	3474.8	3278.4	3305.7	3545.8	3800.5
42.5°	4306.3	4337.2	4513.7	4624.6	4595.5	4237.1	3756.8	3533.1	3511.2	3722.3	3920.6
45°	4679.2	4684.7	4863.0	5015.8	5075.8	4697.4	4204.4	3855.1	3836.9	4026.1	4140.7
47.5°	5123.1	5117.7	5228.6	5392.4	5554.3	5246.8	4719.2	4344.5	4279.0	4460.9	4506.4
50°	5552.5	5528.8	5554.3	5763.5	6074.6	5934.5	5345.1	4943.0	4877.5	4977.6	5055.8
52.5°	5789.0	5818.1	5749.0	6025.5	6627.7	6747.8	6174.7	5658.0	5601.6	5650.7	5787.2
55°	5623.4	5683.5	5638.0	5900.0	6869.6	7739.3	7248.1	6485.8	6413.0	6394.8	6618.6
57.5°	4919.4	5028.5	5037.6	5452.4	6786.0	8507.0	8758.1	7462.7	7353.6	7168.0	7399.1
60°	3776.9	3886.0	3969.7	4460.9	6069.2	8965.5	10508.2	8852.7	8492.5	8012.2	8150.4
62.5°	2647.1	2721.7	2805.3	3107.4	4679.2	8696.2	12021.9	10810.2	10146.2	8901.8	9074.6
65°	1928.4	1986.7	2072.2	2250.5	2874.5	7195.3	12724.1	13135.3	12505.8	10033.4	10011.6
67.5°	1451.8	1488.2	1601.0	1886.6	1992.1	4444.5	11996.4	15591.3	15081.9	11290.5	10764.8
70°	1098.9	1129.8	1235.3	1626.4	1861.1	2383.3	9464.0	16138.9	16284.5	12700.5	11270.5
72.5°	756.8	791.4	909.6	1355.4	1772.0	1890.2	5940.0	14661.7	15212.9	13280.8	10728.4
75°	463.9	487.6	556.7	1027.9	1759.3	1848.4	3269.3	12014.6	12598.6	12271.1	9385.7
77.5°	327.5	325.7	338.4	602.2	1524.6	1859.3	2015.8	8803.6	9371.2	9043.7	6369.3
80°	238.3	240.1	252.9	360.2	1035.2	1890.2	1588.2	5896.3	6065.5	4715.6	2512.4
82.5°	143.7	151.0	181.9	243.8	622.2	1706.5	1468.2	3276.5	3065.5	1513.7	691.3
85°	76.4	76.4	107.3	154.6	331.1	1273.5	1413.6	1559.1	1306.3	469.4	256.5
87.5°	18.2	18.2	30.9	61.9	132.8	609.5	964.2	620.4	496.7	158.3	105.5
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°	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1	3804.1
2.5°	3846.0	3824.2	3851.4	3796.9	3753.2	3755.0	3687.7	3684.1	3675.0	3627.7	3644.0
5°	3889.6	3871.5	3840.5	3780.5	3684.1	3587.6	3529.4	3454.8	3423.9	3407.5	3414.8
7.5°	3931.5	3898.7	3809.6	3725.9	3576.7	3394.8	3289.3	3189.2	3061.9	3047.3	3021.8
10°	3942.4	3873.3	3758.7	3580.4	3382.1	3180.1	2940.0	2754.4	2656.2	2579.8	2550.6
12.5°	3926.0	3896.9	3676.8	3447.6	3147.4	2830.8	2550.6	2288.7	2106.7	2012.1	1986.7
15°	3924.2	3873.3	3585.8	3245.6	2861.7	2448.8	2050.3	1735.6	1544.6	1466.3	1466.3
17.5°	3926.0	3804.1	3478.5	3041.9	2525.2	1966.7	1528.2	1269.9	1164.3	1153.4	1162.5
20°	3889.6	3753.2	3365.7	2801.7	2103.1	1477.3	1109.8	1004.2	1004.2	1018.8	1024.3
22.5°	3856.9	3676.8	3187.4	2505.2	1673.7	1069.7	902.4	871.4	906.0	931.5	942.4
25°	3811.4	3613.1	3005.5	2197.7	1273.5	862.3	784.1	791.4	824.1	869.6	866.0
27.5°	3745.9	3502.1	2789.0	1841.1	947.9	744.1	724.1	727.7	762.3	782.3	778.7
30°	3671.3	3389.3	2588.9	1486.4	751.4	682.2	680.4	689.5	695.0	705.9	704.1
32.5°	3576.7	3240.2	2376.0	1155.3	676.8	647.7	640.4	634.9	640.4	638.6	633.1
35°	3509.4	3160.1	2159.5	880.5	634.9	616.7	611.3	602.2	594.9	584.0	582.2
37.5°	3491.2	3080.1	1932.1	718.6	602.2	593.1	574.9	558.5	549.4	544.0	540.3
40°	3480.3	3027.3	1710.1	631.3	574.9	565.8	544.0	522.1	513.0	507.6	509.4
42.5°	3518.5	2998.2	1484.5	587.6	551.2	534.9	511.2	485.8	483.9	480.3	485.8
45°	3653.1	3034.6	1275.3	556.7	527.6	500.3	469.4	456.6	454.8	451.2	454.8
47.5°	3958.8	3125.5	1097.0	536.7	502.1	478.5	445.7	427.5	425.7	423.9	423.9
50°	4380.9	3405.7	947.9	513.0	485.8	453.0	422.1	402.1	398.4	391.1	391.1
52.5°	5043.1	3876.9	858.7	500.3	456.6	429.4	396.6	374.8	365.7	358.4	358.4
55°	5789.0	4460.9	842.3	478.5	425.7	400.2	371.1	349.3	340.2	331.1	327.5
57.5°	6638.6	5234.1	958.8	463.9	403.9	371.1	338.4	318.4	311.1	302.0	298.4
60°	7430.0	6005.5	1320.8	442.1	383.9	343.8	311.1	291.1	282.0	272.9	272.9
62.5°	8345.1	6960.6	1933.9	442.1	365.7	314.7	282.0	267.4	262.0	252.9	251.1
65°	9427.6	7948.5	2381.5	469.4	360.2	289.3	254.7	240.1	234.7	229.2	227.4
67.5°	10251.7	8516.1	2048.5	542.1	383.9	267.4	227.4	218.3	214.7	209.2	205.6
70°	10339.0	8170.4	1235.3	585.8	407.5	245.6	203.8	194.7	194.7	189.2	185.6
72.5°	9554.9	7249.9	831.4	522.1	369.3	220.1	180.1	172.8	169.2	165.6	163.7
75°	7995.8	6149.2	656.8	416.6	283.8	181.9	156.5	149.2	143.7	141.9	138.3
77.5°	5370.5	3997.0	485.8	325.7	209.2	147.4	131.0	123.7	118.3	116.4	111.0
80°	2063.1	1522.7	312.9	236.5	147.4	116.4	103.7	96.4	92.8	87.3	83.7
82.5°	607.6	493.0	174.7	145.5	94.6	80.0	74.6	69.1	63.7	58.2	56.4
85°	251.1	225.6	107.3	76.4	58.2	47.3	43.7	38.2	32.7	29.1	25.5
87.5°	116.4	96.4	49.1	29.1	20.0	10.9	5.5	1.8	0.0	0.0	0.0
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)