

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: P483926

Luminaire Tested: **IFLD-S-SA2D-730-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483926  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-730-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

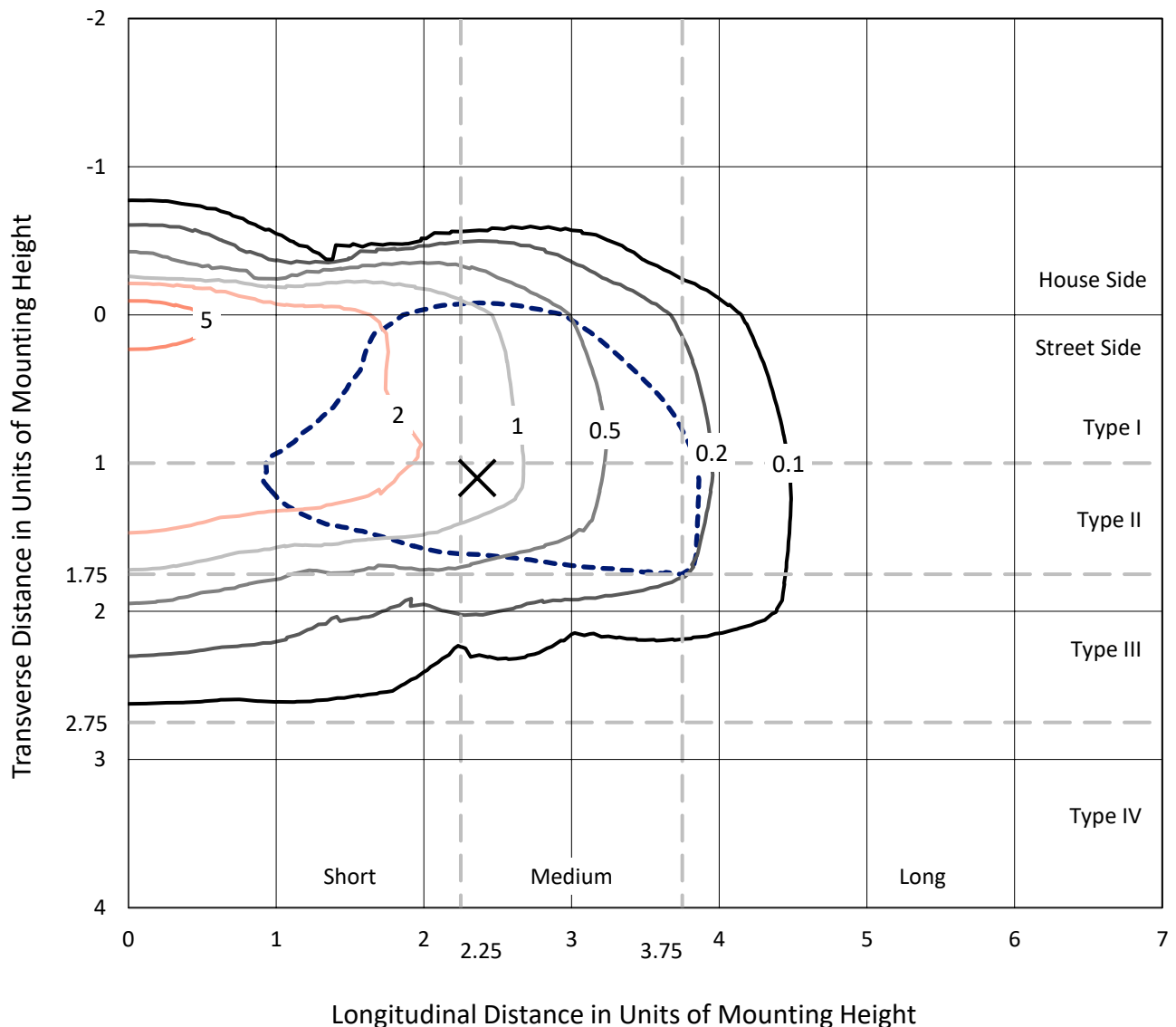
Lumens per Lamp: N/A  
Luminaire Lumens: 11721.4 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
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

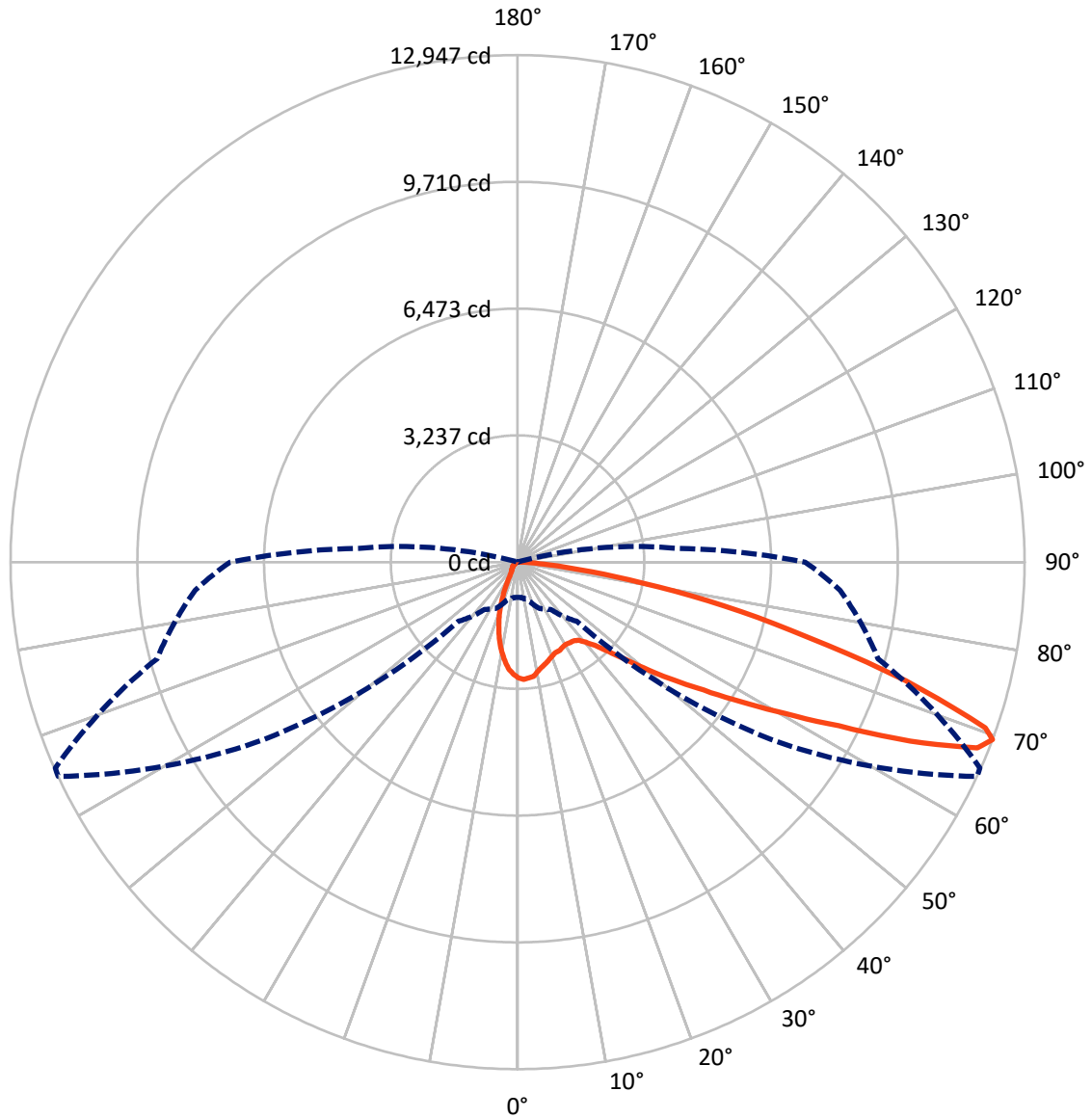
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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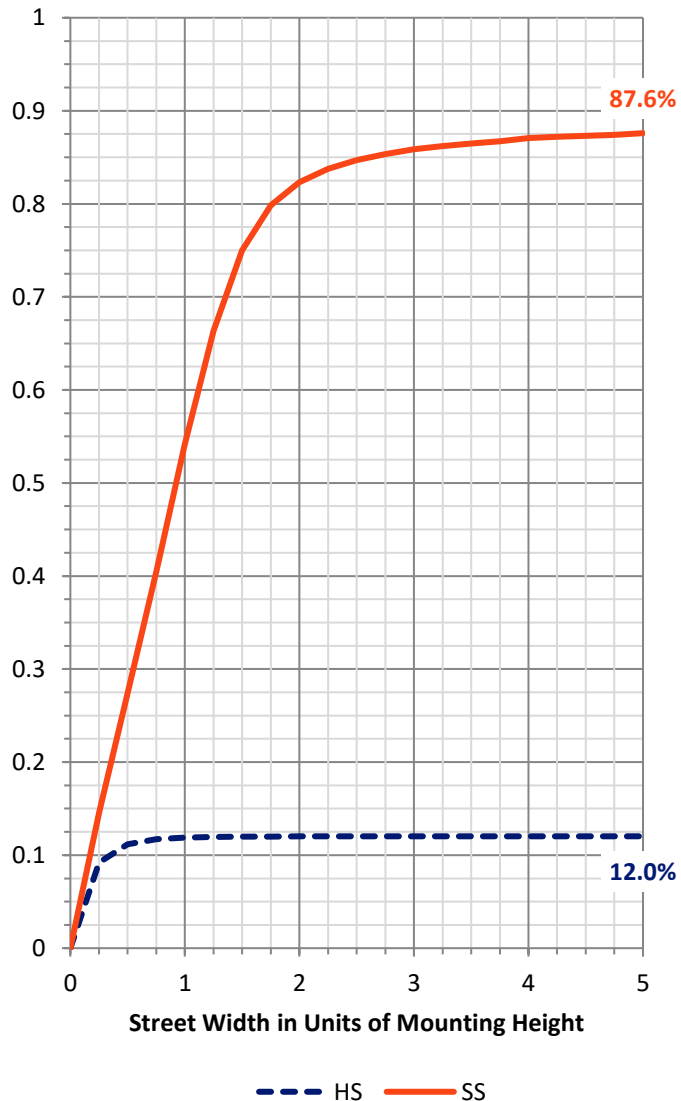
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1421.9	0.0	1421.9
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	10299.5	0.0	10299.5
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	11721.4	0.0	11721.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.8	2.1
10°-20°	529.1	4.5
20°-30°	736.7	6.3
30°-40°	1043.9	8.9
40°-50°	1645.2	14.0
50°-60°	2669.6	22.8
60°-70°	2981.4	25.4
70°-80°	1678.9	14.3
80°-90°	194.8	1.7
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°	11721.4	100.0
0°-180°	11721.4	100.0

**Coefficient of Utilization**



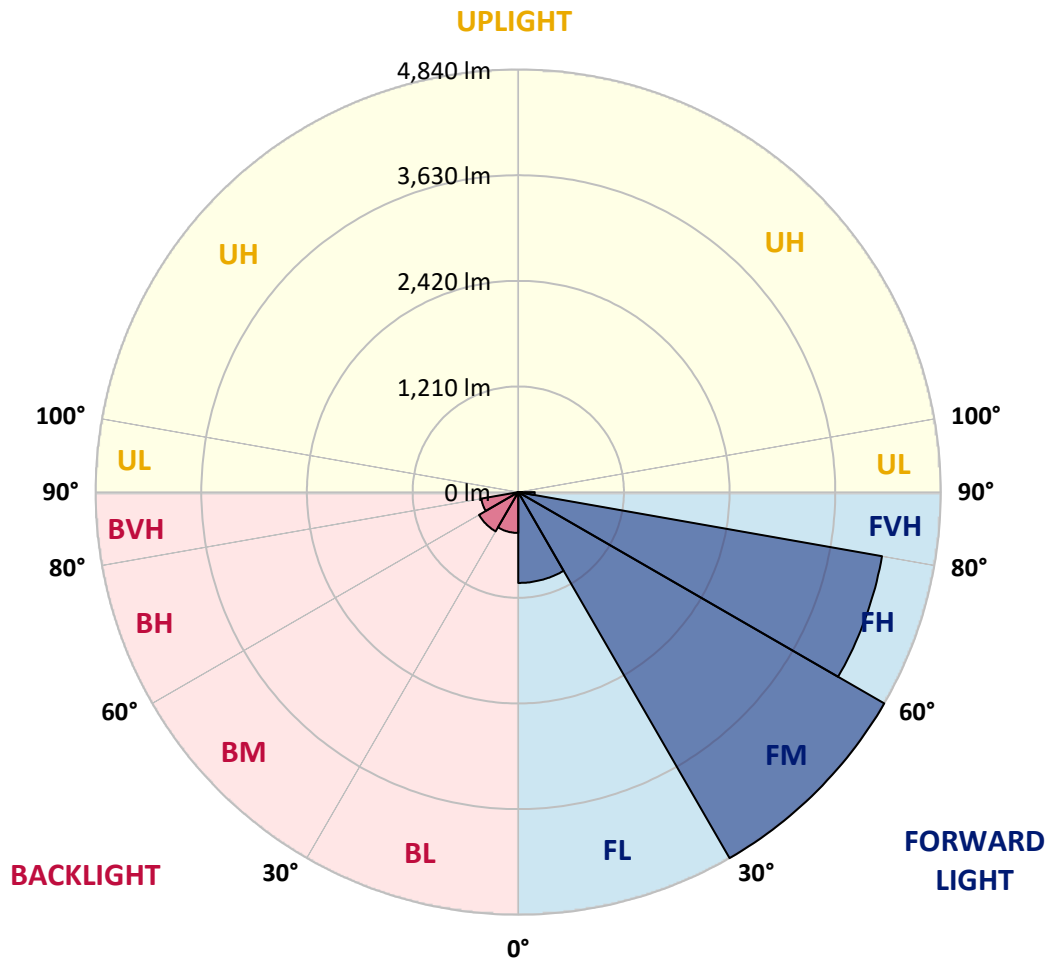
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1040.2	8.9			
FM (30°-60°)	4839.9	41.3			
FH (60°-80°)	4230.0	36.1			G2/5000
FVH (80°-90°)	189.4	1.6			G2/225
BL (0°-30°)	467.5	4.0	B1/500		
BM (30°-60°)	518.8	4.4	B1/1000		
BH (60°-80°)	430.2	3.7	B1/500		G1/500
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2
2.5°	2846.1	2868.3	2874.6	2896.7	2907.8	2955.2	2982.1	2997.9	2990.0	3007.4	3009.0
5°	2643.7	2631.1	2664.3	2688.0	2738.6	2820.8	2904.6	2969.5	2999.5	3028.0	3023.2
7.5°	2427.1	2420.8	2454.0	2507.8	2553.6	2653.2	2787.6	2947.3	2941.0	3010.6	3031.1
10°	2278.5	2284.8	2295.9	2349.6	2417.6	2518.8	2686.4	2835.1	2868.3	3015.3	3056.4
12.5°	2142.5	2153.6	2174.1	2229.5	2308.5	2412.9	2575.7	2749.7	2800.3	2988.4	3070.7
15°	2098.2	2072.9	2114.0	2155.2	2237.4	2330.7	2468.2	2684.8	2707.0	2956.8	3094.4
17.5°	2061.9	2046.1	2065.0	2098.2	2185.2	2261.1	2390.7	2615.3	2656.4	2944.2	3091.2
20°	2072.9	2058.7	2066.6	2091.9	2131.4	2202.6	2322.8	2548.9	2593.1	2885.7	3086.5
22.5°	2104.6	2115.6	2101.4	2107.7	2120.4	2156.7	2286.4	2501.4	2539.4	2874.6	3113.3
25°	2246.9	2227.9	2208.9	2201.0	2126.7	2142.5	2275.3	2498.3	2525.1	2835.1	3091.2
27.5°	2395.5	2379.7	2371.8	2325.9	2224.7	2177.3	2276.9	2454.0	2490.4	2819.2	3064.3
30°	2575.7	2596.3	2564.7	2509.3	2368.6	2251.6	2294.3	2431.9	2482.5	2759.2	3046.9
32.5°	2765.5	2776.6	2792.4	2751.3	2569.4	2363.9	2346.5	2452.4	2455.6	2759.2	3007.4
35°	2980.5	2964.7	3005.8	3009.0	2849.3	2563.1	2446.1	2466.6	2499.9	2746.5	2993.2
37.5°	3165.5	3192.4	3239.8	3315.7	3151.3	2844.5	2601.0	2533.1	2547.3	2805.0	3004.2
40°	3367.9	3394.8	3502.3	3578.2	3484.9	3160.8	2836.6	2688.0	2699.1	2892.0	3061.2
42.5°	3590.9	3643.0	3771.1	3903.9	3878.6	3562.4	3140.2	2915.7	2911.0	3108.6	3178.2
45°	3892.9	3962.4	4101.6	4255.0	4277.1	4022.5	3545.0	3255.7	3271.5	3391.6	3420.1
47.5°	4313.5	4310.3	4446.3	4617.1	4745.1	4500.0	4028.9	3712.6	3711.0	3839.1	3779.0
50°	4719.8	4721.4	4757.8	4955.4	5287.5	5162.6	4628.1	4319.8	4302.4	4365.6	4269.2
52.5°	4908.0	4885.9	4859.0	5097.7	5704.9	5997.4	5387.1	5007.6	4993.4	4955.4	4930.1
55°	4710.3	4718.3	4716.7	4964.9	5924.7	6878.1	6361.1	5765.0	5741.3	5622.7	5657.5
57.5°	4076.3	4051.0	4106.3	4493.7	5673.3	7479.0	7754.1	6720.0	6658.4	6264.6	6185.6
60°	3034.3	3042.2	3088.1	3545.0	5048.7	7605.5	9087.1	7841.1	7575.4	6716.9	6607.8
62.5°	2118.8	2103.0	2120.4	2376.5	3609.8	7099.5	9988.3	9204.1	8947.9	7230.8	7167.5
65°	1516.4	1495.8	1565.4	1721.9	2167.8	5428.2	10116.4	11019.3	10790.0	8051.4	7899.6
67.5°	1091.0	1087.9	1168.5	1453.1	1540.1	3126.0	9167.7	12663.7	12524.6	9025.4	8345.5
69°	902.9	904.4	981.9	1301.3	1470.5	2134.6	7888.5	12946.7	12921.4	9528.2	8261.7
70°	787.4	793.8	883.9	1211.2	1442.0	1755.1	6800.7	12668.4	12643.1	9626.2	7985.0
72.5°	485.4	490.2	608.8	970.8	1370.9	1432.6	4066.8	10364.7	10451.6	9177.2	6879.7
75°	232.4	234.0	319.4	702.0	1321.9	1358.2	2178.9	7648.2	7831.6	7409.4	5376.0
77.5°	123.3	123.3	153.4	373.2	1070.5	1277.6	1293.4	5395.0	5546.8	4685.0	3056.4
80°	61.7	63.2	93.3	194.5	664.1	1252.3	1010.4	3217.7	3299.9	1911.7	951.9
82.5°	23.7	25.3	44.3	117.0	344.7	1057.8	887.0	1582.8	1562.2	447.5	232.4
85°	3.2	3.2	15.8	69.6	147.1	466.4	732.1	660.9	638.8	98.0	112.3
87.5°	0.0	0.0	3.2	20.6	44.3	136.0	283.0	181.8	202.4	26.9	55.3
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°	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2	2955.2
2.5°	3001.1	2967.9	2917.3	2868.3	2816.1	2752.8	2683.3	2658.0	2613.7	2610.5	2635.8
5°	2997.9	2944.2	2855.6	2751.3	2602.6	2490.4	2368.6	2280.1	2212.1	2167.8	2178.9
7.5°	3013.7	2948.9	2795.5	2571.0	2379.7	2156.7	1968.6	1838.9	1720.3	1661.8	1655.5
10°	2988.4	2901.5	2676.9	2362.3	2080.8	1769.3	1494.2	1320.3	1143.2	1078.4	1081.5
12.5°	3002.7	2880.9	2548.9	2147.2	1759.9	1355.1	1026.2	789.0	623.0	569.2	562.9
15°	3012.2	2836.6	2425.5	1889.5	1404.1	923.4	594.5	447.5	395.3	385.8	384.2
17.5°	2975.8	2782.9	2251.6	1634.9	1040.4	561.3	395.3	365.3	355.8	349.4	346.3
20°	2974.2	2751.3	2101.4	1374.0	694.1	382.6	341.5	330.5	316.2	311.5	311.5
22.5°	2947.3	2684.8	1921.1	1087.9	442.7	328.9	306.7	289.4	273.5	267.2	265.6
25°	2939.4	2607.4	1752.0	817.5	336.8	294.1	272.0	246.7	227.7	218.2	213.5
27.5°	2917.3	2541.0	1581.2	575.6	294.1	262.5	234.0	207.1	185.0	170.8	169.2
30°	2838.2	2471.4	1391.4	398.5	267.2	232.4	200.8	169.2	147.1	137.6	134.4
32.5°	2805.0	2406.6	1184.3	306.7	243.5	205.6	169.2	140.7	123.3	113.8	112.3
35°	2765.5	2311.7	983.5	267.2	221.4	178.7	142.3	118.6	104.4	96.5	96.5
37.5°	2770.2	2235.8	795.3	241.9	197.6	153.4	121.8	101.2	88.5	80.6	80.6
40°	2756.0	2175.7	618.2	219.8	175.5	131.2	102.8	85.4	74.3	66.4	64.8
42.5°	2820.8	2159.9	466.4	200.8	153.4	112.3	88.5	72.7	61.7	52.2	52.2
45°	2929.9	2185.2	363.7	183.4	131.2	96.5	75.9	60.1	49.0	42.7	41.1
47.5°	3220.9	2284.8	284.6	169.2	112.3	83.8	63.2	49.0	39.5	33.2	31.6
50°	3643.0	2507.8	241.9	148.6	94.9	71.2	52.2	37.9	31.6	25.3	23.7
52.5°	4243.9	2882.5	219.8	131.2	79.1	58.5	41.1	30.0	23.7	19.0	17.4
55°	4898.5	3350.5	199.2	110.7	66.4	47.4	33.2	23.7	17.4	12.6	11.1
57.5°	5409.2	3755.3	181.8	91.7	53.8	37.9	25.3	17.4	12.6	7.9	6.3
60°	5967.4	4039.9	159.7	72.7	44.3	28.5	19.0	12.6	9.5	4.7	4.7
62.5°	6542.9	4373.6	131.2	56.9	34.8	22.1	14.2	9.5	6.3	1.6	1.6
65°	7343.0	4634.4	101.2	44.3	26.9	15.8	11.1	7.9	3.2	0.0	0.0
67.5°	7569.1	4506.4	74.3	34.8	19.0	11.1	7.9	4.7	1.6	0.0	0.0
69°	7343.0	4058.9	64.8	30.0	15.8	9.5	6.3	3.2	1.6	0.0	0.0
70°	6930.3	3711.0	56.9	25.3	14.2	9.5	4.7	3.2	1.6	0.0	0.0
72.5°	5796.6	2846.1	44.3	19.0	11.1	7.9	4.7	3.2	0.0	0.0	0.0
75°	4251.8	1758.3	33.2	14.2	9.5	6.3	4.7	3.2	0.0	0.0	0.0
77.5°	2278.5	642.0	23.7	9.5	6.3	4.7	4.7	3.2	0.0	0.0	0.0
80°	624.6	189.7	17.4	6.3	4.7	3.2	3.2	1.6	0.0	0.0	0.0
82.5°	170.8	49.0	11.1	6.3	4.7	3.2	1.6	0.0	0.0	0.0	0.0
85°	91.7	19.0	6.3	4.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	47.4	6.3	4.7	3.2	3.2	1.6	0.0	0.0	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)