

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: P476981

Luminaire Tested: **IFLD-S-SA2A-740-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476981  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-740-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

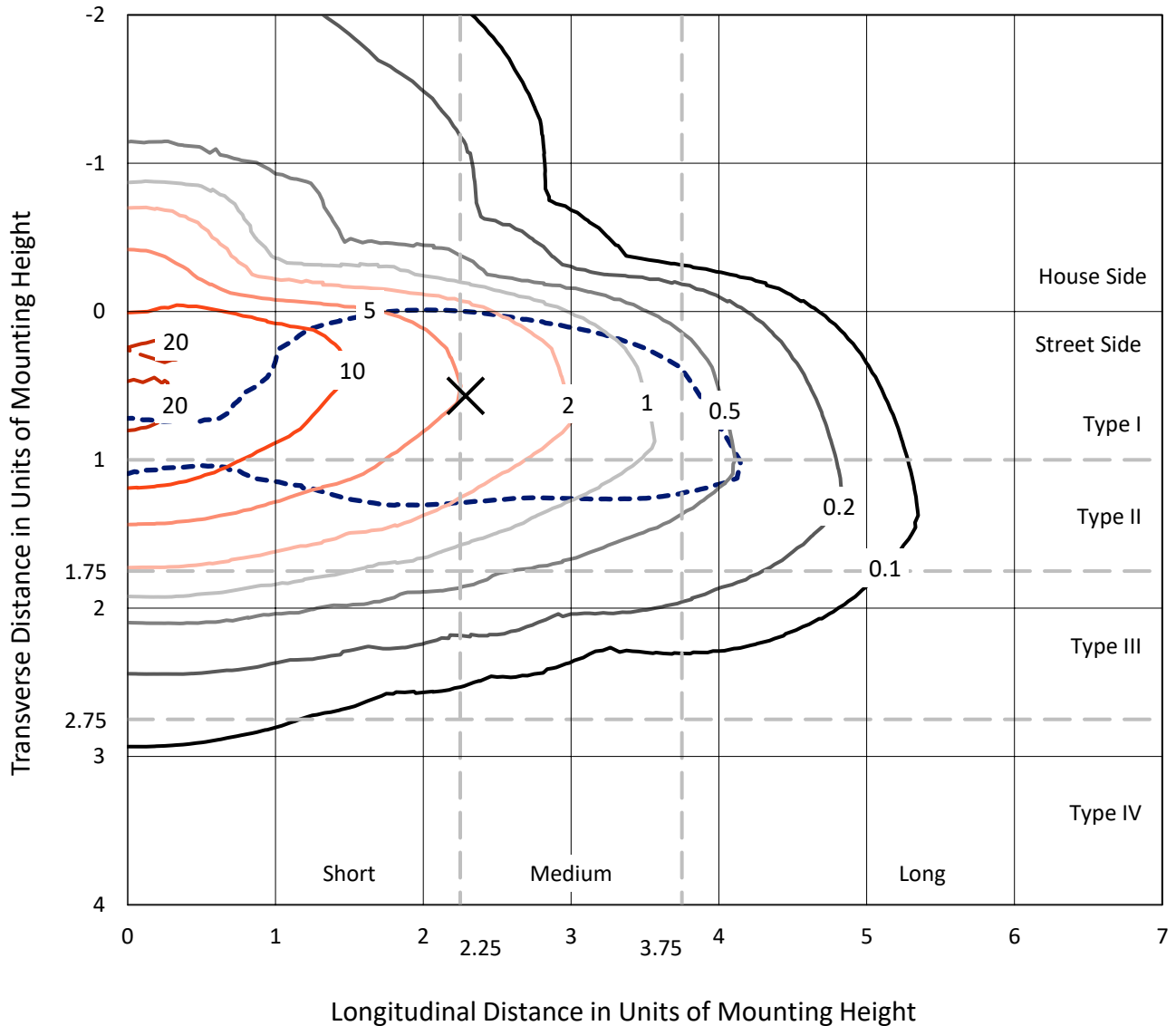
Lumens per Lamp: N/A  
Luminaire Lumens: 9284.1 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

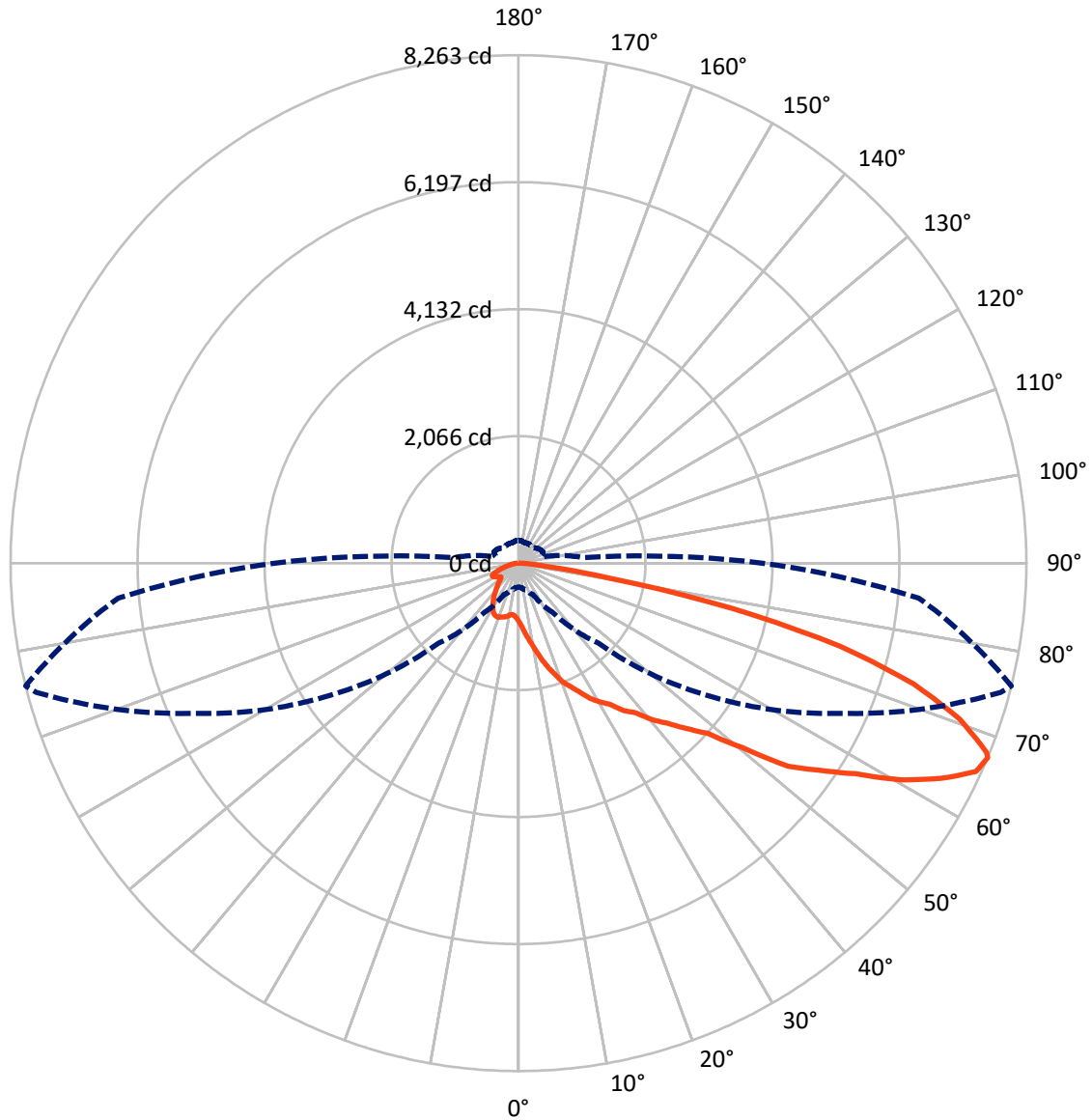
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P476981  
CATALOG NUMBER: IFLD-S-SA2A-740-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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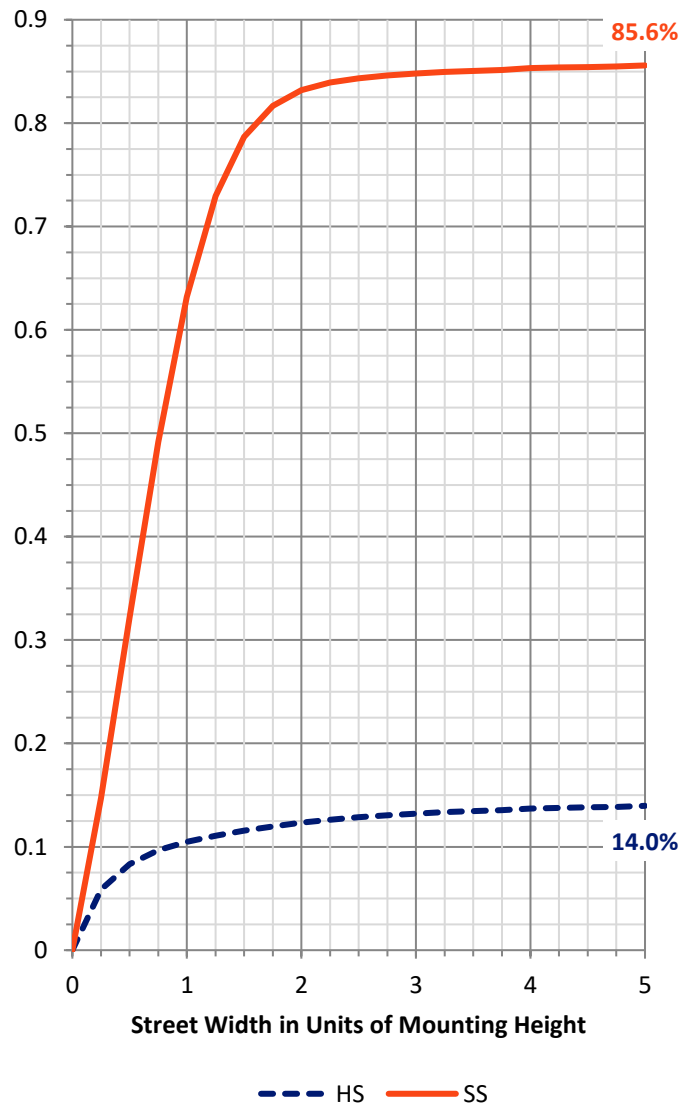
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1320.8	0.0	1320.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	7963.3	0.0	7963.3
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	9284.1	0.0	9284.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.1	1.2
10°-20°	412.8	4.4
20°-30°	767.4	8.3
30°-40°	1216.5	13.1
40°-50°	1682.5	18.1
50°-60°	2069.6	22.3
60°-70°	1925.8	20.7
70°-80°	966.4	10.4
80°-90°	133.2	1.4
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°	9284.1	100.0
0°-180°	9284.1	100.0

**Coefficient of Utilization**



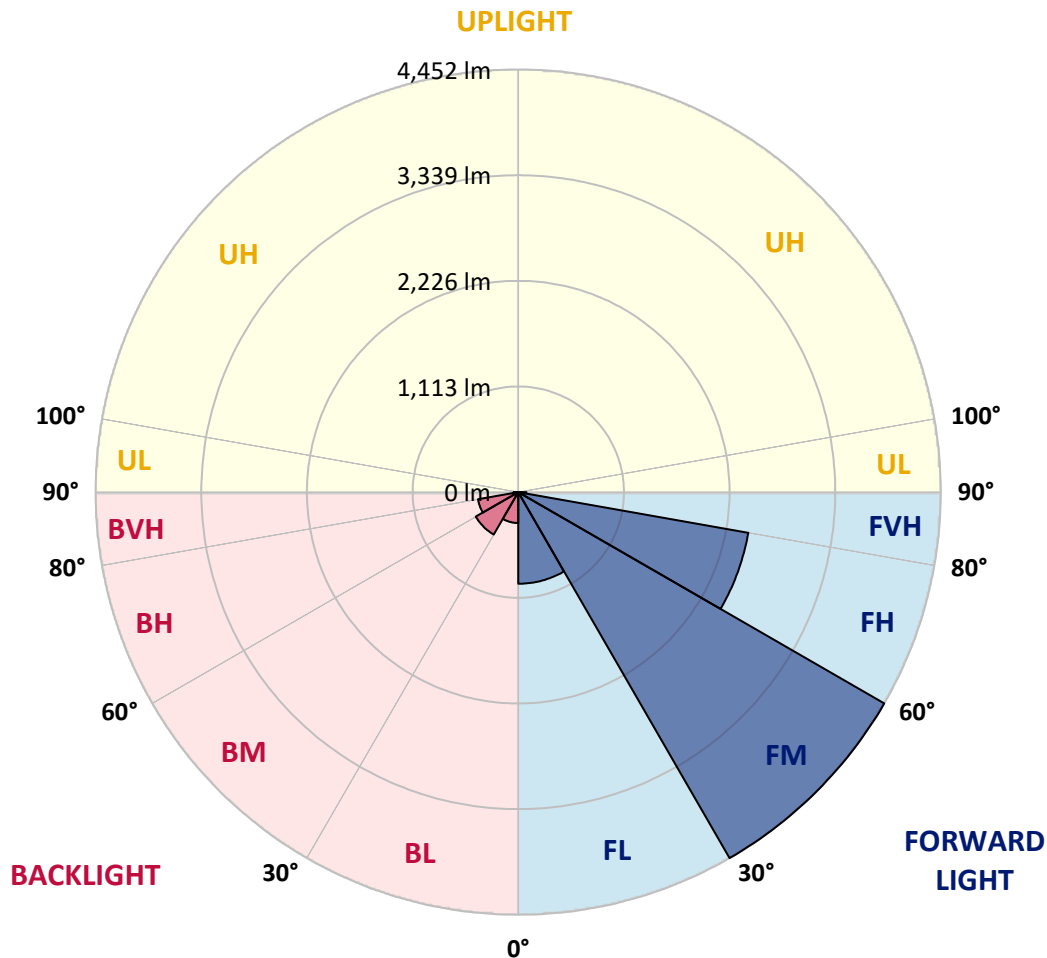
REPORT NUMBER: P476981  
 CATALOG NUMBER: IFLD-S-SA2A-740-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.9	10.4			
FM (30°-60°)	4452.4	48.0			
FH (60°-80°)	2461.1	26.5			G2/5000
FVH (80°-90°)	84.9	0.9			G1/100
BL (0°-30°)	325.3	3.5	B1/500		
BM (30°-60°)	516.1	5.6	B1/1000		
BH (60°-80°)	431.0	4.6	B1/500		G1/500
BVH (80°-90°)	48.4	0.5			G1/100
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





REPORT NUMBER: P476981

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	950.1	950.1	950.1	950.1	950.1	950.1	950.1	950.1	950.1	950.1	950.1
2.5°	1318.3	1302.4	1286.5	1252.7	1241.0	1209.3	1151.1	1086.6	1033.7	1026.3	989.2
5°	1635.7	1612.4	1607.1	1588.1	1527.8	1466.4	1371.2	1267.5	1138.4	1147.9	1021.0
7.5°	1873.7	1860.0	1831.4	1813.4	1777.4	1696.0	1597.6	1460.0	1296.1	1264.3	1091.9
10°	2053.6	2034.5	2033.5	2017.6	1998.6	1915.0	1839.9	1654.7	1444.2	1400.8	1178.6
12.5°	2144.6	2141.4	2197.5	2197.5	2190.1	2155.2	2026.1	1856.8	1584.9	1570.1	1279.1
15°	2243.0	2216.5	2265.2	2302.2	2321.3	2339.2	2232.4	2053.6	1764.7	1736.2	1387.0
17.5°	2243.0	2240.8	2289.5	2350.9	2450.3	2473.6	2415.4	2234.5	1913.9	1892.8	1505.5
20°	2204.9	2235.6	2269.4	2351.9	2459.9	2554.0	2570.9	2419.7	2079.0	2062.0	1639.9
22.5°	2382.6	2353.0	2387.9	2419.7	2503.2	2646.1	2692.6	2582.6	2252.5	2187.9	1761.6
25°	2681.0	2660.9	2635.5	2588.9	2623.8	2686.3	2757.2	2703.2	2400.6	2328.7	1879.0
27.5°	2971.9	2973.0	2918.0	2816.4	2741.3	2754.0	2837.6	2809.0	2525.5	2493.7	1959.4
30°	3385.6	3360.2	3298.9	3161.3	3014.2	2893.6	2879.9	2907.4	2684.2	2622.8	2074.7
32.5°	3695.6	3700.9	3614.1	3416.3	3215.3	3116.9	2996.3	3007.9	2784.7	2739.2	2166.8
35°	3946.3	3940.0	3878.6	3714.6	3476.6	3358.1	3195.2	3128.5	3018.5	2946.5	2307.5
37.5°	4217.2	4165.4	4065.9	3880.8	3728.4	3564.4	3405.7	3255.5	3174.0	3087.3	2428.1
40°	4326.2	4326.2	4192.9	4108.2	3927.3	3803.5	3700.9	3422.6	3363.4	3346.5	2582.6
42.5°	4248.9	4296.5	4241.5	4145.3	4071.2	3914.6	3887.1	3596.2	3597.2	3563.4	2767.7
45°	4241.5	4175.9	4130.4	4154.8	4119.9	4111.4	4181.2	3836.3	3842.7	3838.4	3016.4
47.5°	4028.9	3999.2	4067.0	4107.2	4135.7	4266.9	4467.9	4123.0	4168.5	4136.8	3303.1
50°	3817.3	3812.0	3854.3	4000.3	4124.1	4339.9	4740.9	4565.3	4714.5	4712.3	3822.6
52.5°	3237.5	3293.6	3459.7	3768.6	4074.4	4439.4	4947.2	5130.3	5414.9	5492.1	4253.2
55°	2683.1	2653.5	2898.9	3347.5	3857.5	4478.5	5177.9	5469.9	5888.8	5944.9	4695.4
57.5°	2087.4	2142.5	2336.1	2766.7	3408.9	4284.9	5347.1	5805.3	6424.2	6467.6	5208.5
60°	1557.4	1564.8	1777.4	2124.5	2812.2	3848.0	5402.2	6149.1	7037.8	7161.6	5746.0
62.5°	979.7	1024.1	1186.0	1527.8	2117.1	3236.4	5155.6	6357.5	7681.1	7713.9	6287.7
65°	527.9	556.5	678.2	893.0	1479.1	2448.2	4501.8	6232.7	7983.7	8178.4	6528.9
67°	390.4	395.7	451.8	570.3	989.2	1843.0	3753.8	5780.9	8121.2	8263.0	6538.5
67.5°	366.1	373.5	417.9	512.1	877.1	1697.0	3558.1	5620.1	8059.9	8212.2	6464.4
70°	313.2	315.3	325.9	352.3	492.0	1021.0	2422.8	4605.5	7470.6	7616.6	5944.9
72.5°	278.3	280.4	284.6	289.9	333.3	590.4	1473.8	3544.3	6493.0	6725.7	5129.2
75°	244.4	251.8	253.9	249.7	283.5	384.1	784.0	2604.8	5296.4	5409.6	3988.7
77.5°	207.4	210.5	214.8	219.0	252.9	286.7	376.6	1758.4	3635.3	3566.5	2157.3
80°	174.6	175.6	178.8	182.0	219.0	219.0	213.7	950.1	1588.1	1518.2	729.0
82.5°	124.8	132.3	139.7	148.1	182.0	147.1	139.7	423.2	502.6	478.2	246.5
85°	48.7	59.2	92.0	101.6	115.3	79.4	93.1	183.0	209.5	207.4	92.0
87.5°	8.5	9.5	25.4	39.1	42.3	27.5	44.4	65.6	78.3	84.6	33.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P476981  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	950.1	950.1	950.1	950.1	950.1	950.1	950.1	950.1	950.1	950.1	950.1
2.5°	958.6	925.8	886.6	847.5	822.1	781.9	778.7	754.4	751.2	742.7	746.9
5°	966.0	926.8	847.5	785.0	756.5	733.2	738.5	727.9	724.7	719.4	711.0
7.5°	1024.1	946.9	828.4	774.5	753.3	742.7	742.7	730.0	720.5	726.8	733.2
10°	1062.2	956.4	843.2	789.3	772.3	749.1	757.5	741.7	746.9	734.3	734.3
12.5°	1123.6	1010.4	873.9	811.5	784.0	762.8	771.3	753.3	749.1	750.1	746.9
15°	1206.1	1046.4	887.7	824.2	805.1	778.7	772.3	756.5	740.6	735.3	741.7
17.5°	1283.4	1090.8	897.2	831.6	800.9	771.3	763.9	743.8	738.5	722.6	709.9
20°	1375.4	1143.7	909.9	837.9	785.0	755.4	736.4	716.3	698.3	688.8	693.0
22.5°	1436.8	1171.2	916.2	825.2	761.8	734.3	694.0	680.3	654.9	644.3	635.9
25°	1537.3	1205.1	900.4	790.3	720.5	676.1	640.1	621.0	603.1	589.3	585.1
27.5°	1562.7	1230.5	863.3	731.1	654.9	608.4	577.7	554.4	542.8	521.6	517.4
30°	1636.7	1205.1	808.3	659.1	592.5	544.9	514.2	497.3	469.8	464.5	452.8
32.5°	1684.3	1212.5	738.5	589.3	520.5	478.2	458.1	441.2	433.8	408.4	402.0
35°	1763.7	1187.1	667.6	524.8	461.3	428.5	411.6	406.3	381.9	370.3	359.7
37.5°	1814.5	1172.3	596.7	451.8	396.8	383.0	388.3	366.1	336.4	314.2	306.8
40°	1903.3	1167.0	516.3	391.5	352.3	349.1	366.1	323.7	269.8	250.7	240.2
42.5°	2031.4	1131.0	453.9	337.5	317.4	331.2	334.3	269.8	239.1	223.2	215.8
45°	2154.1	1138.4	392.5	279.3	276.1	296.2	288.8	228.5	210.5	198.9	205.3
47.5°	2390.0	1175.4	332.2	232.8	248.6	267.7	224.3	204.2	187.3	178.8	179.9
50°	2755.0	1211.4	279.3	212.7	234.9	242.3	192.6	185.2	184.1	167.2	166.1
52.5°	2974.0	1197.7	269.8	238.1	251.8	242.3	209.5	204.2	195.7	188.3	179.9
55°	3322.1	1237.9	289.9	278.3	285.7	232.8	234.9	232.8	226.4	207.4	212.7
57.5°	3599.3	1264.3	316.3	311.1	306.8	242.3	245.5	246.5	242.3	233.8	241.2
60°	3980.2	1317.2	343.9	344.9	346.0	263.4	268.7	275.1	274.0	270.8	273.0
62.5°	4214.0	1292.9	374.5	391.5	386.2	306.8	305.8	310.0	310.0	315.3	318.5
65°	4179.1	1202.9	390.4	432.7	405.2	338.6	338.6	340.7	341.7	352.3	353.4
67°	3969.6	1042.1	381.9	439.1	405.2	351.3	351.3	353.4	346.0	373.5	365.0
67.5°	3872.3	994.5	374.5	433.8	402.0	350.2	350.2	351.3	344.9	371.4	362.9
70°	3367.6	738.5	322.7	384.1	372.4	340.7	340.7	334.3	329.0	364.0	356.5
72.5°	2874.6	536.4	259.2	326.9	336.4	328.0	330.1	314.2	299.4	323.7	317.4
75°	2201.7	394.6	202.1	251.8	284.6	306.8	320.6	280.4	261.3	267.7	256.0
77.5°	1228.3	257.1	159.8	186.2	216.9	285.7	307.9	252.9	213.7	206.3	206.3
80°	416.9	150.2	117.4	138.6	149.2	252.9	287.8	205.3	168.2	160.8	155.5
82.5°	157.6	92.0	80.4	95.2	95.2	200.0	234.9	157.6	127.0	164.0	167.2
85°	71.9	55.0	52.9	55.0	55.0	122.7	166.1	102.6	114.3	98.4	86.8
87.5°	28.6	26.5	24.3	23.3	19.0	21.2	57.1	27.5	51.8	13.8	12.7
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)