

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: P476943

Luminaire Tested: **IFLD-S-SA2B-735-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476943  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-735-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

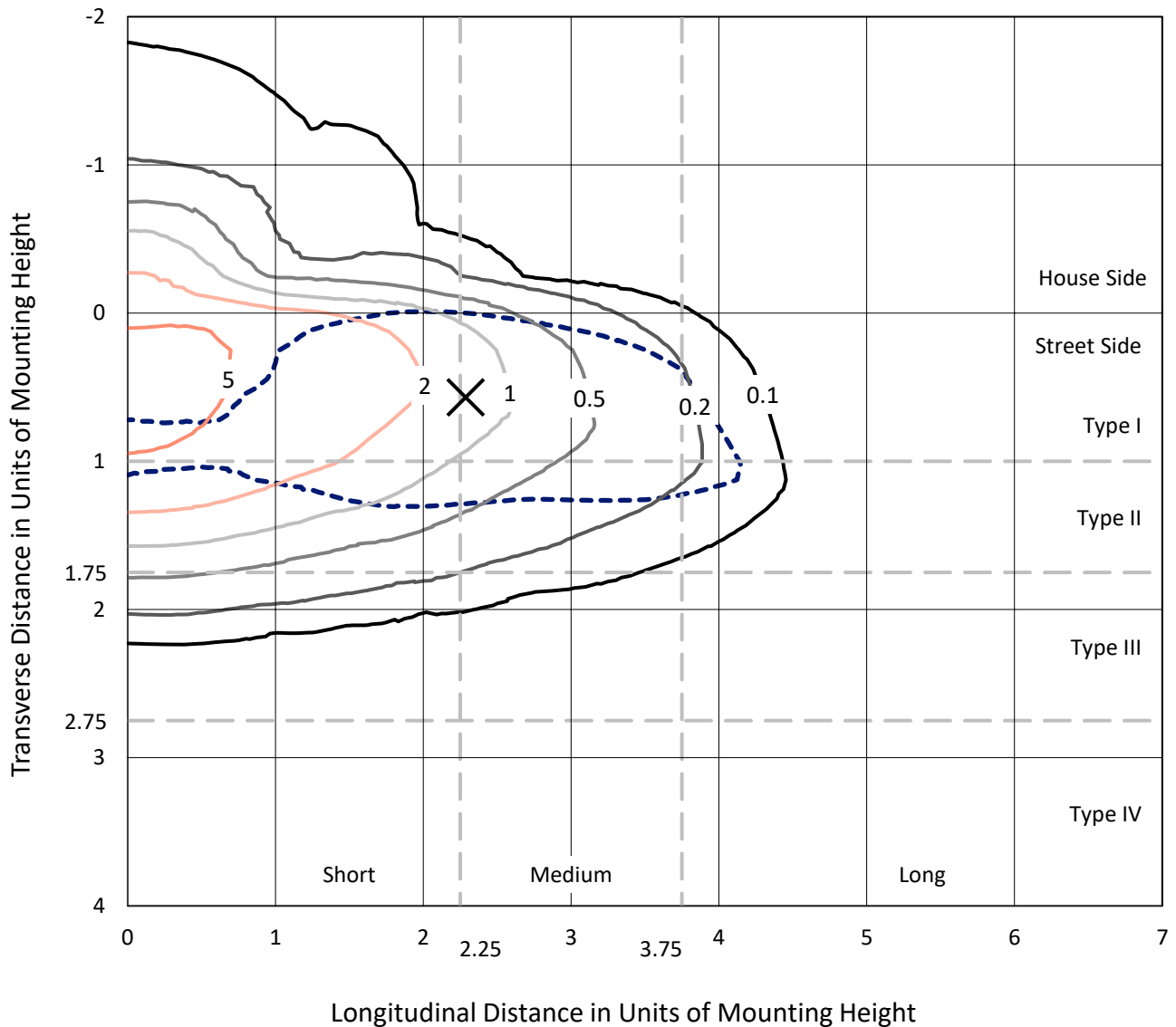
Lumens per Lamp: N/A  
Luminaire Lumens: 11324.6 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4  
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

REPORT NUMBER: P476943  
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

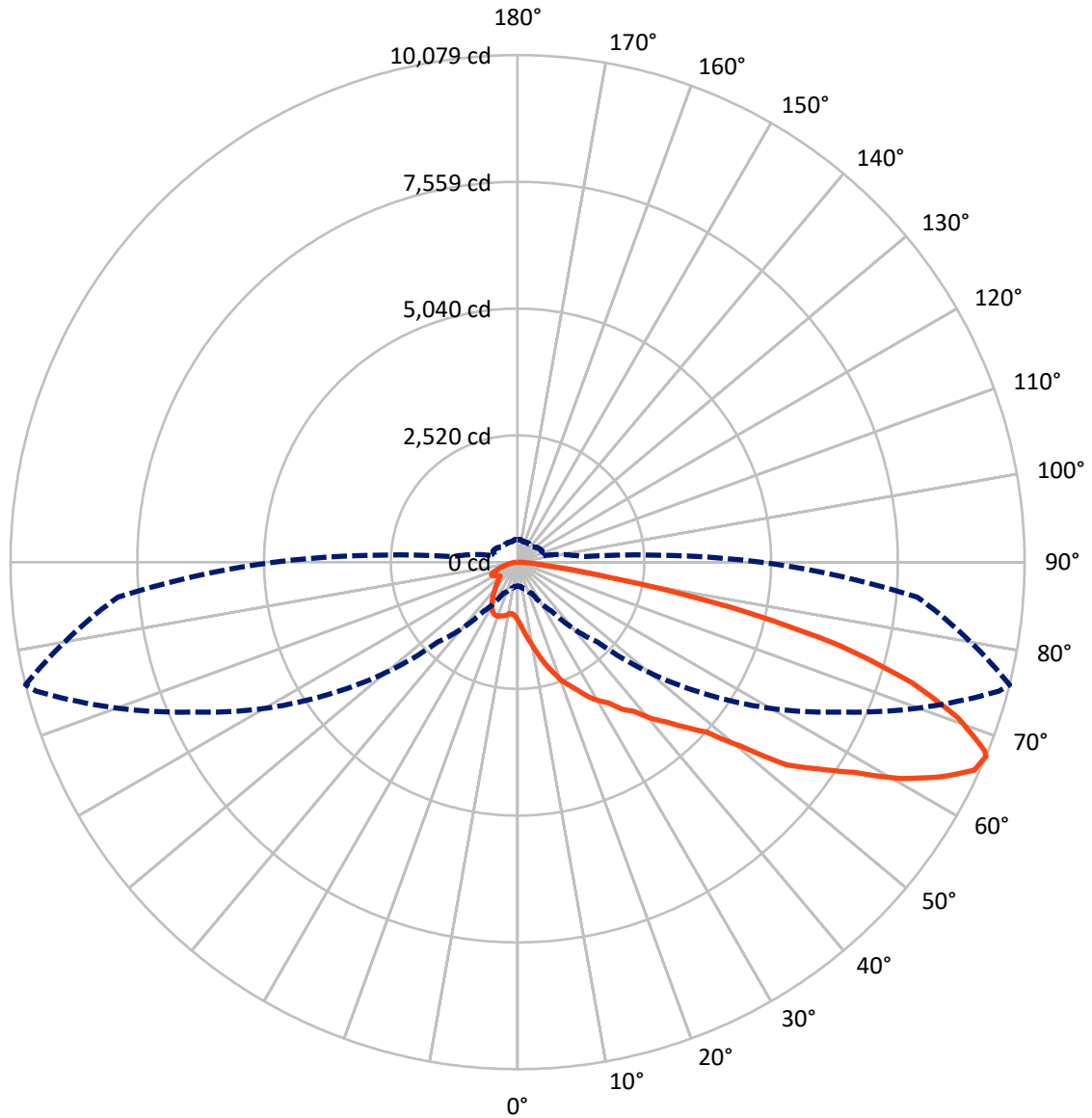
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P476943  
CATALOG NUMBER: IFLD-S-SA2B-735-U-T2R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P476943  
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T2R

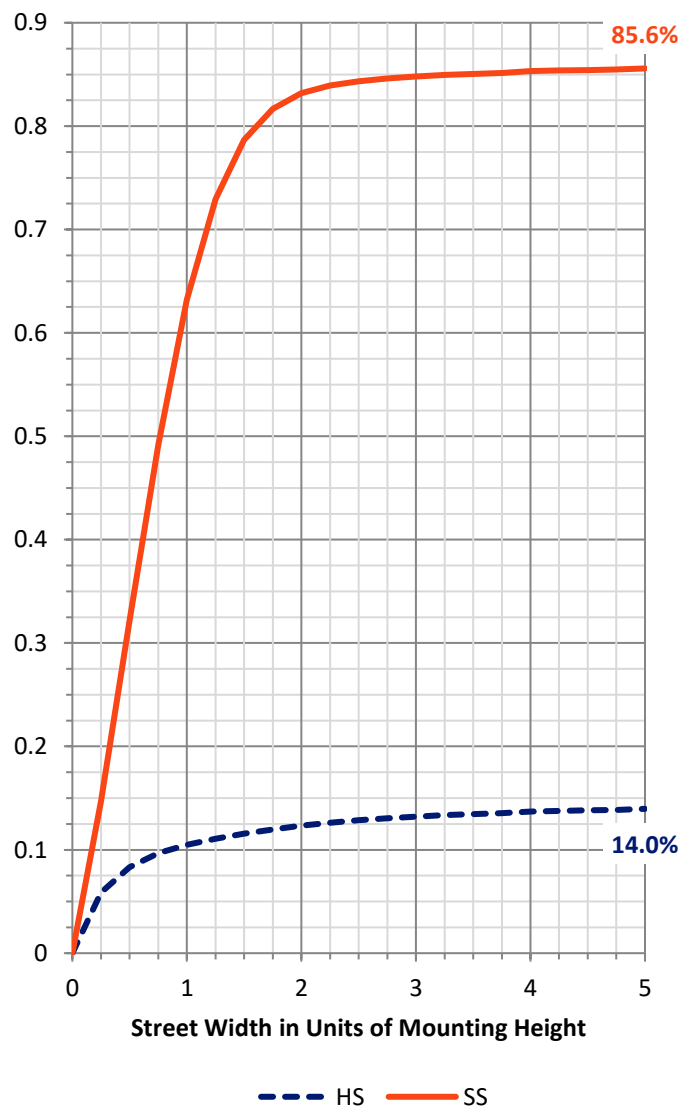
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1611.1	0.0	1611.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	9713.6	0.0	9713.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	11324.6	0.0	11324.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.2	1.2
10°-20°	503.5	4.4
20°-30°	936.0	8.3
30°-40°	1483.8	13.1
40°-50°	2052.3	18.1
50°-60°	2524.4	22.3
60°-70°	2349.1	20.7
70°-80°	1178.8	10.4
80°-90°	162.5	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°	11324.6	100.0
0°-180°	11324.6	100.0

**Coefficient of Utilization**



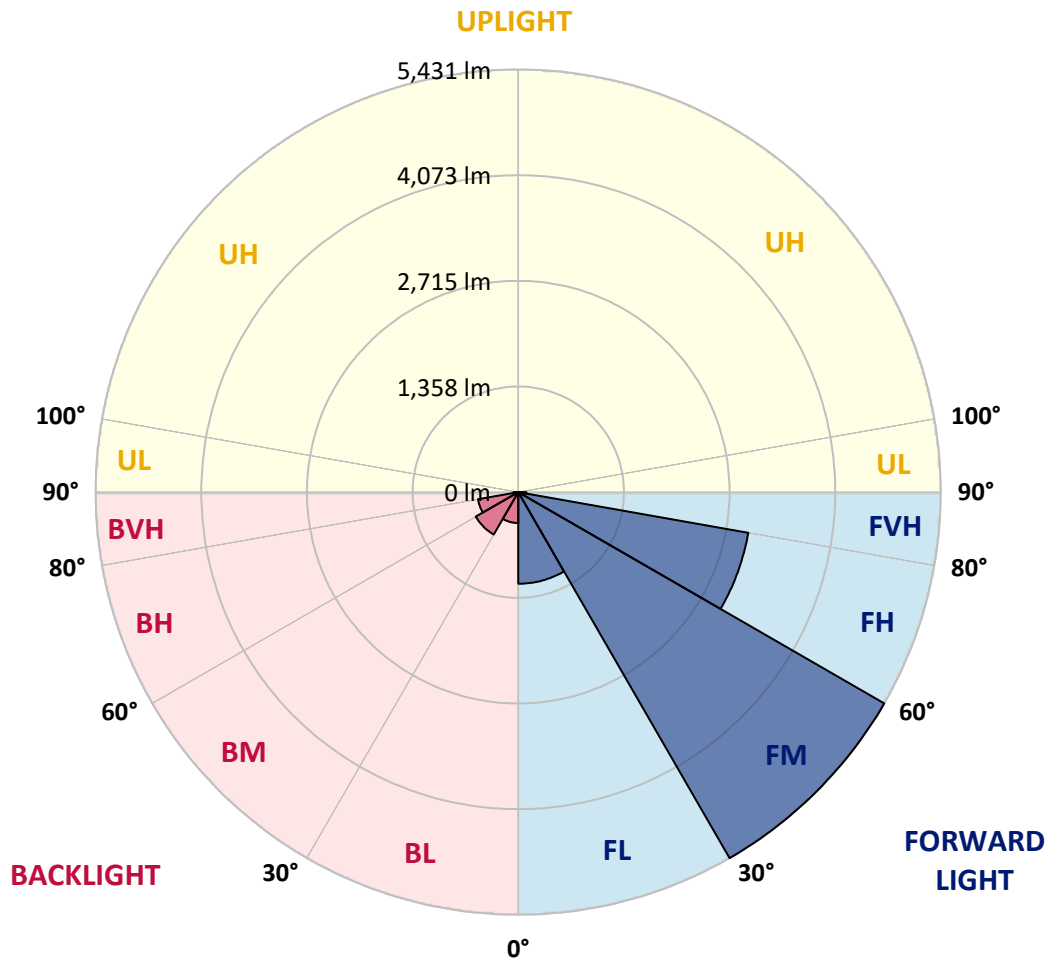
REPORT NUMBER: P476943  
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.0	10.4			
FM (30°-60°)	5430.9	48.0			
FH (60°-80°)	3002.1	26.5			G2/5000
FVH (80°-90°)	103.6	0.9			G2/225
BL (0°-30°)	396.7	3.5	B1/500		
BM (30°-60°)	629.6	5.6	B1/1000		
BH (60°-80°)	525.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	59.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





REPORT NUMBER: P476943

CATALOG NUMBER: IFLD-S-SA2B-735-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9
2.5°	1608.0	1588.7	1569.3	1528.0	1513.8	1475.1	1404.1	1325.4	1260.9	1251.8	1206.7
5°	1995.2	1966.8	1960.3	1937.1	1863.5	1788.7	1672.5	1546.1	1388.6	1400.2	1245.4
7.5°	2285.5	2268.8	2233.9	2212.0	2168.1	2068.7	1948.7	1780.9	1580.9	1542.2	1331.8
10°	2504.9	2481.7	2480.4	2461.1	2437.8	2335.9	2244.2	2018.4	1761.6	1708.7	1437.7
12.5°	2615.9	2612.0	2680.4	2680.4	2671.4	2628.8	2471.4	2264.9	1933.2	1915.2	1560.3
15°	2735.9	2703.7	2763.0	2808.2	2831.4	2853.4	2723.0	2504.9	2152.6	2117.8	1691.9
17.5°	2735.9	2733.4	2792.7	2867.6	2988.9	3017.3	2946.3	2725.6	2334.6	2308.8	1836.4
20°	2689.5	2726.9	2768.2	2868.9	3000.5	3115.4	3136.0	2951.5	2535.9	2515.3	2000.3
22.5°	2906.3	2870.2	2912.7	2951.5	3053.4	3227.6	3284.4	3150.2	2747.6	2668.8	2148.7
25°	3270.2	3245.7	3214.7	3157.9	3200.5	3276.7	3363.1	3297.3	2928.2	2840.5	2292.0
27.5°	3625.1	3626.4	3559.3	3435.4	3343.8	3359.3	3461.2	3426.4	3080.5	3041.8	2390.1
30°	4129.7	4098.8	4023.9	3856.1	3676.7	3529.6	3512.8	3546.4	3274.1	3199.2	2530.7
32.5°	4507.9	4514.3	4408.5	4167.1	3921.9	3801.9	3654.8	3669.0	3396.7	3341.2	2643.0
35°	4813.7	4806.0	4731.1	4531.1	4240.7	4096.2	3897.4	3816.1	3681.9	3594.1	2814.7
37.5°	5144.1	5080.8	4959.5	4733.7	4547.9	4347.8	4154.2	3971.0	3871.6	3765.8	2961.8
40°	5277.0	5277.0	5114.4	5011.2	4790.5	4639.5	4514.3	4174.9	4102.6	4082.0	3150.2
42.5°	5182.8	5240.9	5173.8	5056.3	4966.0	4775.0	4741.4	4386.5	4387.8	4346.5	3376.0
45°	5173.8	5093.8	5038.3	5067.9	5025.4	5015.0	5100.2	4679.5	4687.2	4682.1	3679.3
47.5°	4914.4	4878.2	4960.8	5009.9	5044.7	5204.7	5449.9	5029.2	5084.7	5046.0	4029.1
50°	4656.3	4649.8	4701.4	4879.5	5030.5	5293.8	5782.9	5568.7	5750.6	5748.1	4662.7
52.5°	3949.0	4017.4	4220.1	4596.9	4969.9	5415.1	6034.6	6257.8	6605.0	6699.2	5188.0
55°	3272.8	3236.7	3536.1	4083.3	4705.3	5462.8	6315.9	6672.1	7183.1	7251.5	5727.4
57.5°	2546.2	2613.3	2849.5	3374.8	4158.1	5226.7	6522.4	7081.2	7836.1	7889.1	6353.3
60°	1899.7	1908.7	2168.1	2591.4	3430.3	4693.7	6589.5	7500.6	8584.7	8735.7	7008.9
62.5°	1195.0	1249.2	1446.7	1863.5	2582.4	3947.8	6288.8	7754.8	9369.3	9409.3	7669.7
65°	644.0	678.8	827.2	1089.2	1804.2	2986.3	5491.2	7602.6	9738.4	9975.9	7963.9
67°	476.2	482.7	551.1	695.6	1206.7	2248.1	4578.8	7051.5	9906.2	10079.1	7975.5
67.5°	446.5	455.6	509.8	624.6	1069.9	2070.0	4340.1	6855.3	9831.3	10017.2	7885.2
70°	382.0	384.6	397.5	429.7	600.1	1245.4	2955.3	5617.7	9112.5	9290.6	7251.5
72.5°	339.4	342.0	347.2	353.6	406.5	720.1	1797.7	4323.3	7920.0	8204.0	6256.5
75°	298.1	307.1	309.7	304.6	345.9	468.5	956.3	3177.3	6460.4	6598.5	4865.3
77.5°	252.9	256.8	262.0	267.1	308.4	349.7	459.4	2144.9	4434.3	4350.4	2631.4
80°	212.9	214.2	218.1	222.0	267.1	267.1	260.7	1158.9	1937.1	1851.9	889.2
82.5°	152.3	161.3	170.4	180.7	222.0	179.4	170.4	516.2	613.0	583.3	300.7
85°	59.4	72.3	112.3	123.9	140.7	96.8	113.6	223.3	255.5	252.9	112.3
87.5°	10.3	11.6	31.0	47.7	51.6	33.6	54.2	80.0	95.5	103.2	41.3
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: P476943  
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9	1158.9
2.5°	1169.2	1129.2	1081.5	1033.7	1002.7	953.7	949.8	920.2	916.3	906.0	911.1
5°	1178.3	1130.5	1033.7	957.6	922.7	894.3	900.8	887.9	884.0	877.6	867.2
7.5°	1249.2	1155.0	1010.5	944.7	918.9	906.0	906.0	890.5	878.9	886.6	894.3
10°	1295.7	1166.6	1028.6	962.7	942.1	913.7	924.0	904.7	911.1	895.6	895.6
12.5°	1370.6	1232.5	1066.0	989.8	956.3	930.5	940.8	918.9	913.7	915.0	911.1
15°	1471.2	1276.3	1082.8	1005.3	982.1	949.8	942.1	922.7	903.4	896.9	904.7
17.5°	1565.4	1330.5	1094.4	1014.4	976.9	940.8	931.8	907.2	900.8	881.4	866.0
20°	1677.7	1395.1	1109.9	1022.1	957.6	921.4	898.2	873.7	851.8	840.1	845.3
22.5°	1752.6	1428.6	1117.6	1006.6	929.2	895.6	846.6	829.8	798.8	785.9	775.6
25°	1875.2	1469.9	1098.2	964.0	878.9	824.7	780.8	757.5	735.6	718.8	713.7
27.5°	1906.1	1500.9	1053.1	891.8	798.8	742.1	704.6	676.2	662.0	636.2	631.1
30°	1996.5	1469.9	986.0	804.0	722.7	664.6	627.2	606.6	573.0	566.5	552.4
32.5°	2054.5	1479.0	900.8	718.8	634.9	583.3	558.8	538.2	529.1	498.1	490.4
35°	2151.3	1448.0	814.3	640.1	562.7	522.7	502.0	495.6	465.9	451.7	438.8
37.5°	2213.3	1429.9	727.9	551.1	484.0	467.2	473.6	446.5	410.4	383.3	374.3
40°	2321.7	1423.5	629.8	477.5	429.7	425.9	446.5	394.9	329.1	305.9	293.0
42.5°	2477.8	1379.6	553.6	411.7	387.2	403.9	407.8	329.1	291.7	272.3	263.3
45°	2627.5	1388.6	478.8	340.7	336.8	361.4	352.3	278.8	256.8	242.6	250.4
47.5°	2915.3	1433.8	405.2	283.9	303.3	326.5	273.6	249.1	228.4	218.1	219.4
50°	3360.6	1477.7	340.7	259.4	286.5	295.5	234.9	225.8	224.6	203.9	202.6
52.5°	3627.7	1460.9	329.1	290.4	307.1	295.5	255.5	249.1	238.7	229.7	219.4
55°	4052.3	1509.9	353.6	339.4	348.4	283.9	286.5	283.9	276.2	252.9	259.4
57.5°	4390.4	1542.2	385.9	379.4	374.3	295.5	299.4	300.7	295.5	285.2	294.2
60°	4855.0	1606.7	419.4	420.7	422.0	321.3	327.8	335.5	334.2	330.4	333.0
62.5°	5140.2	1577.0	456.9	477.5	471.0	374.3	373.0	378.1	378.1	384.6	388.5
65°	5097.6	1467.3	476.2	527.8	494.3	413.0	413.0	415.6	416.8	429.7	431.0
67°	4842.1	1271.2	465.9	535.6	494.3	428.5	428.5	431.0	422.0	455.6	445.2
67.5°	4723.4	1213.1	456.9	529.1	490.4	427.2	427.2	428.5	420.7	453.0	442.7
70°	4107.8	900.8	393.6	468.5	454.3	415.6	415.6	407.8	401.4	443.9	434.9
72.5°	3506.4	654.3	316.2	398.8	410.4	400.1	402.6	383.3	365.2	394.9	387.2
75°	2685.6	481.4	246.5	307.1	347.2	374.3	391.0	342.0	318.8	326.5	312.3
77.5°	1498.3	313.6	194.9	227.1	264.6	348.4	375.5	308.4	260.7	251.7	251.7
80°	508.5	183.3	143.2	169.1	182.0	308.4	351.0	250.4	205.2	196.2	189.7
82.5°	192.3	112.3	98.1	116.1	116.1	243.9	286.5	192.3	154.9	200.0	203.9
85°	87.8	67.1	64.5	67.1	67.1	149.7	202.6	125.2	139.4	120.0	105.8
87.5°	34.8	32.3	29.7	28.4	23.2	25.8	69.7	33.6	63.2	16.8	15.5
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)