

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: P482174

Luminaire Tested: **IFLD-S-SA3B-827-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482174  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-827-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

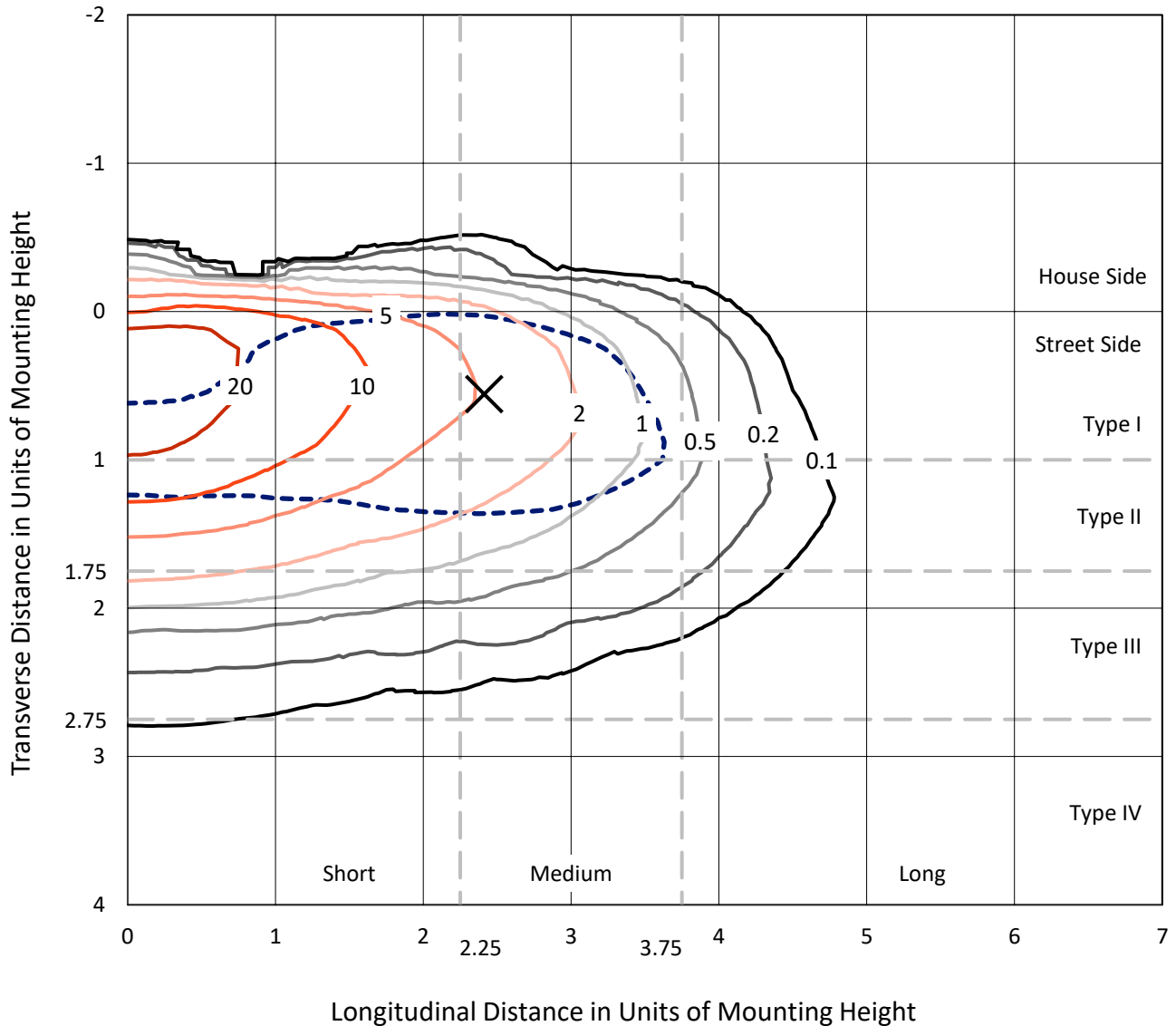
Lumens per Lamp: N/A  
Luminaire Lumens: 9834.2 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4  
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

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### Iso-Footcandle Lines of Horizontal Illumination

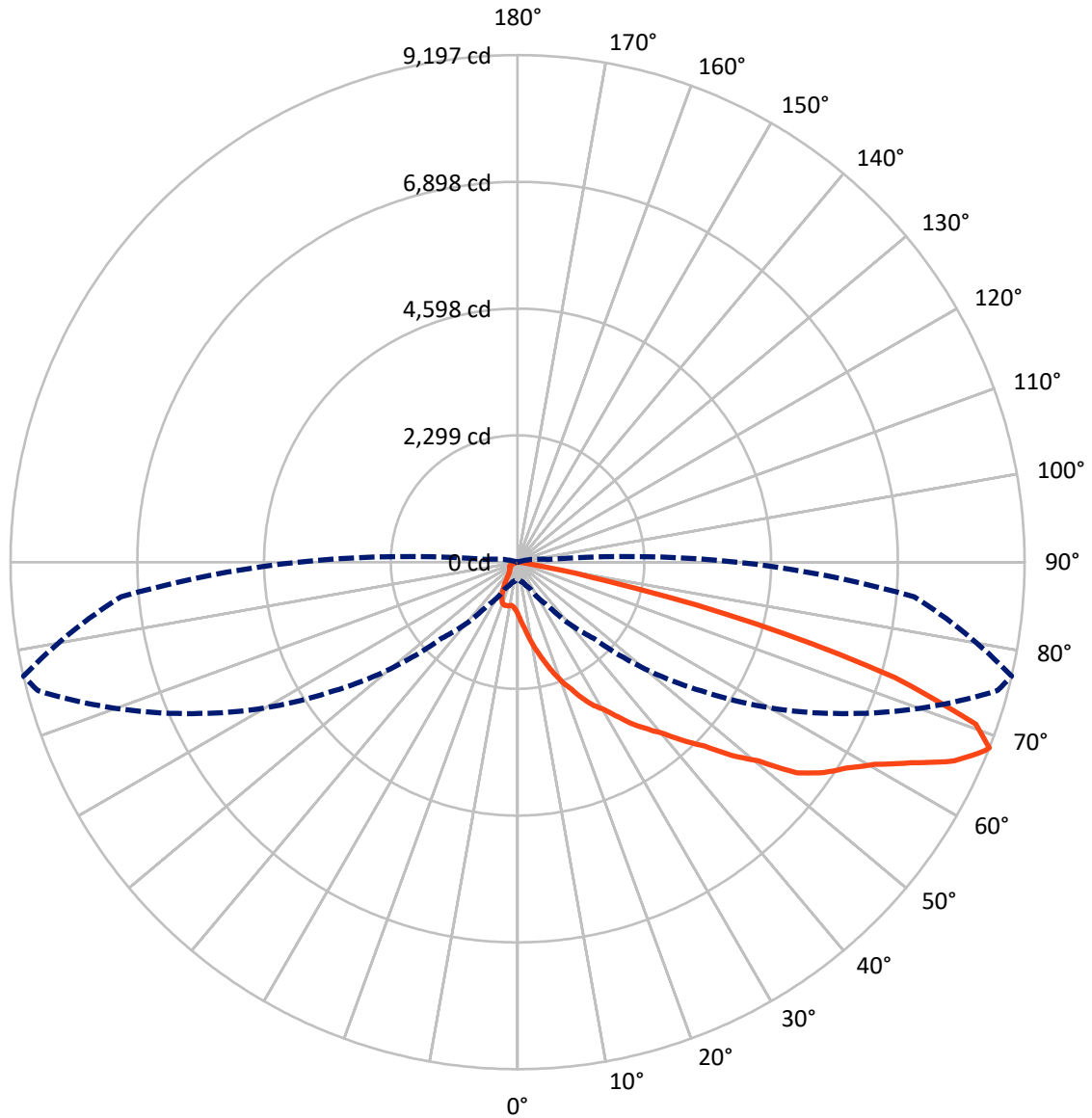
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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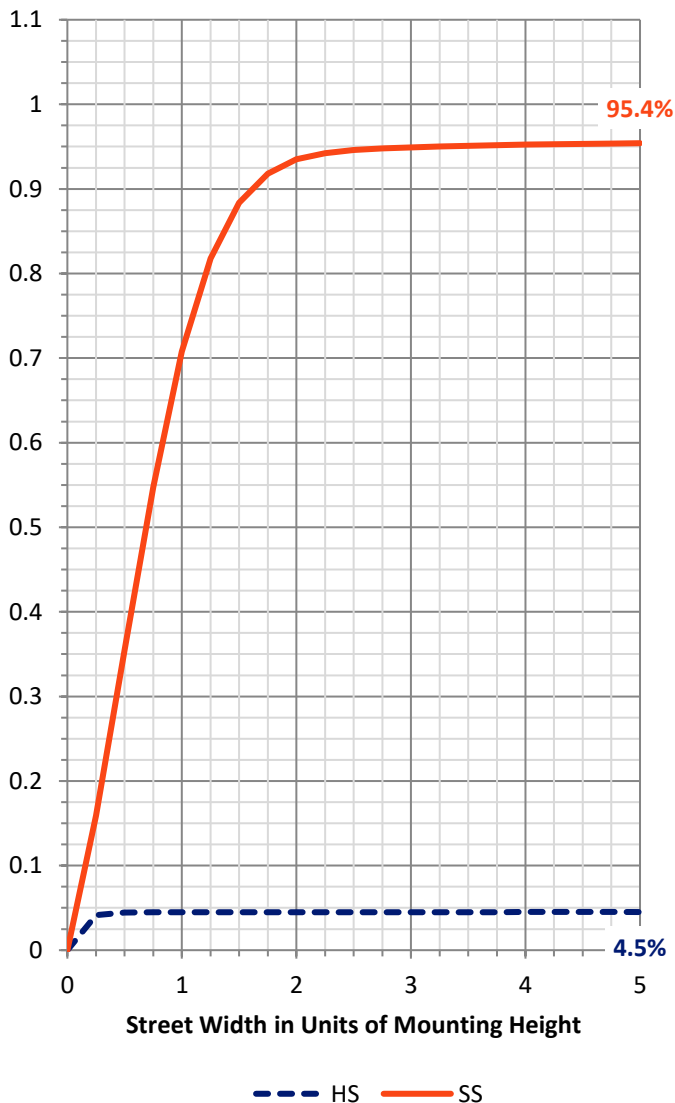
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	446.0	0.0	446.0
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	9388.2	0.0	9388.2
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	9834.2	0.0	9834.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.0	1.1
10°-20°	405.7	4.1
20°-30°	786.3	8.0
30°-40°	1370.8	13.9
40°-50°	2007.6	20.4
50°-60°	2358.6	24.0
60°-70°	1991.7	20.3
70°-80°	772.0	7.9
80°-90°	31.4	0.3
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°	9834.2	100.0
0°-180°	9834.2	100.0



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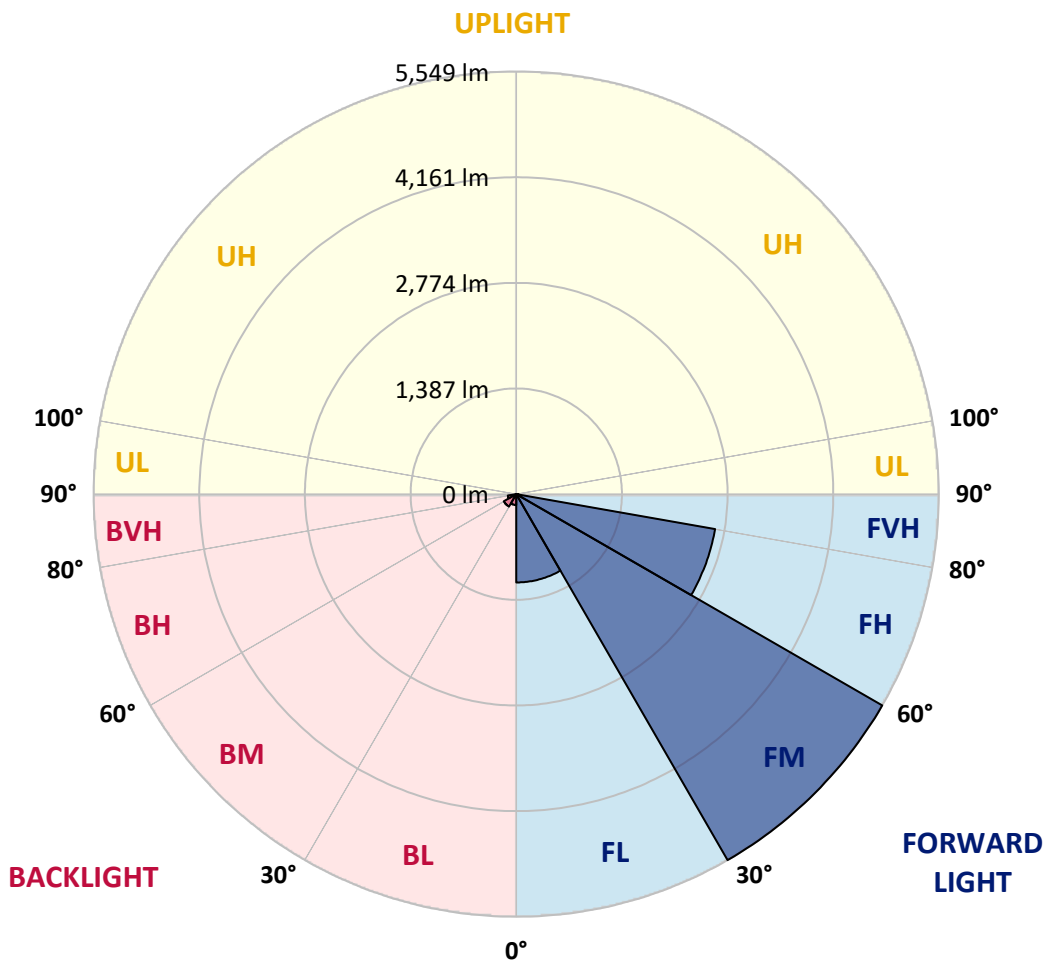
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.5	11.8			
FM (30°-60°)	5548.6	56.4			
FH (60°-80°)	2651.1	27.0			G2/5000
FVH (80°-90°)	29.0	0.3			G1/100
BL (0°-30°)	142.5	1.4	B1/500		
BM (30°-60°)	188.4	1.9	B0/220		
BH (60°-80°)	112.6	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	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°	75°	77°	85°
0°	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6
2.5°	1430.7	1403.6	1375.2	1367.1	1314.2	1254.6	1199.1	1144.9	1054.1	1055.4	993.1
5°	1844.0	1810.1	1787.1	1781.7	1699.0	1596.0	1512.0	1358.9	1208.5	1174.7	1060.9
7.5°	2184.1	2173.2	2139.3	2110.9	2049.9	1923.9	1825.0	1605.5	1376.6	1338.6	1143.5
10°	2390.0	2406.3	2421.2	2384.6	2337.2	2246.4	2110.9	1873.8	1567.6	1520.2	1250.5
12.5°	2609.5	2582.4	2591.9	2621.7	2559.4	2539.0	2371.0	2150.2	1791.1	1700.4	1386.0
15°	2666.4	2677.2	2700.3	2787.0	2829.0	2770.7	2625.7	2373.7	2022.8	1896.8	1512.0
17.5°	2704.3	2698.9	2727.4	2857.4	2921.1	2976.7	2885.9	2623.0	2224.7	2112.2	1669.2
20°	2751.7	2721.9	2784.3	2866.9	3014.6	3131.1	3127.0	2873.7	2436.1	2316.8	1825.0
22.5°	2927.9	2904.8	2955.0	2963.1	3066.1	3228.7	3268.0	3078.3	2652.8	2506.5	1993.0
25°	3253.0	3295.1	3235.4	3184.0	3215.1	3322.1	3350.6	3259.8	2871.0	2736.8	2161.0
27.5°	3728.6	3723.2	3605.3	3538.9	3464.4	3450.9	3471.2	3429.2	3043.0	2946.8	2299.2
30°	4239.4	4194.7	4086.3	3926.4	3762.5	3660.9	3632.4	3589.1	3244.9	3105.4	2436.1
32.5°	4645.9	4670.2	4549.7	4341.0	4068.7	3931.8	3795.0	3747.6	3467.1	3343.8	2593.2
35°	5019.8	4987.3	4891.1	4715.0	4471.1	4250.2	4036.2	3934.6	3734.0	3612.1	2766.6
37.5°	5296.2	5336.8	5153.9	4985.9	4743.4	4560.5	4350.5	4128.3	4009.1	3846.5	2978.0
40°	5557.7	5494.0	5370.7	5216.3	4991.4	4851.8	4713.6	4366.8	4301.7	4091.7	3216.5
42.5°	5511.6	5515.7	5447.9	5323.3	5160.7	5080.8	5033.4	4656.7	4567.3	4433.1	3449.5
45°	5323.3	5339.6	5362.6	5301.6	5315.2	5235.2	5362.6	4990.0	4901.9	4759.7	3717.8
47.5°	5116.0	5143.1	5137.7	5248.8	5374.8	5401.9	5720.3	5359.9	5321.9	5243.4	4089.0
50°	4771.9	4782.7	4887.0	5088.9	5261.0	5544.1	5988.5	5763.6	5821.9	5667.4	4530.7
52.5°	4183.8	4223.1	4491.4	4780.0	5126.8	5615.9	6170.1	6363.8	6511.5	6353.0	4954.8
55°	3440.0	3494.2	3758.4	4299.0	4807.1	5507.6	6335.4	6680.9	6980.3	6740.5	5212.2
57.5°	2768.0	2773.4	3010.5	3568.7	4353.2	5294.8	6419.4	6835.3	7237.7	7045.3	5526.5
60°	2109.5	2087.9	2300.6	2784.3	3589.1	4771.9	6209.4	6913.9	7558.8	7447.7	5904.5
62.5°	1357.6	1323.7	1555.4	2026.9	2803.2	3900.7	5789.4	6915.3	8060.1	8018.1	6537.3
65°	672.0	649.0	848.2	1242.4	1940.2	2983.4	5190.5	6889.5	8672.5	8699.6	7153.7
67.5°	355.0	363.1	426.8	630.0	1119.1	2108.2	4288.2	6587.4	8985.5	9137.3	7302.8
68°	326.5	329.2	379.4	524.3	971.4	1955.1	4074.1	6499.3	9009.9	9196.9	7220.1
70°	265.6	269.6	287.2	329.2	525.7	1272.2	3143.3	5751.4	8642.7	8813.4	6535.9
72.5°	211.4	223.6	234.4	252.0	308.9	668.0	1955.1	4481.9	7140.2	7159.1	5087.5
75°	161.2	170.7	192.4	207.3	241.2	367.2	930.8	2732.8	4685.1	4454.8	2997.0
77.5°	124.6	132.8	142.3	162.6	201.9	247.9	284.5	1159.8	1990.3	1638.0	846.8
80°	74.5	79.9	111.1	127.4	176.1	168.0	112.5	322.5	403.8	318.4	154.5
82.5°	43.4	47.4	63.7	97.6	123.3	90.8	66.4	100.3	98.9	86.7	51.5
85°	1.4	2.7	35.2	58.3	43.4	24.4	40.6	42.0	35.2	32.5	23.0
87.5°	0.0	1.4	9.5	8.1	9.5	5.4	8.1	10.8	13.5	12.2	9.5
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°	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6
2.5°	951.1	921.3	854.9	804.8	750.6	718.1	685.6	665.2	654.4	647.6	653.0
5°	975.5	913.2	806.1	711.3	649.0	607.0	565.0	543.3	523.0	512.1	518.9
7.5°	1029.7	936.2	758.7	655.8	582.6	517.6	464.7	422.7	398.3	376.7	380.7
10°	1096.1	949.8	760.1	623.2	517.6	414.6	340.1	287.2	257.4	238.5	237.1
12.5°	1163.8	1002.6	765.5	590.7	437.6	311.6	223.6	184.3	166.6	157.2	157.2
15°	1266.8	1050.0	752.0	531.1	331.9	203.2	153.1	139.6	132.8	124.6	126.0
17.5°	1356.2	1125.9	745.2	441.7	227.6	146.3	127.4	112.5	105.7	97.6	97.6
20°	1476.8	1173.3	708.6	341.4	157.2	121.9	103.0	89.4	78.6	71.8	73.2
22.5°	1586.6	1209.9	643.6	233.0	120.6	96.2	75.9	62.3	52.8	44.7	46.1
25°	1705.8	1246.5	548.7	143.6	85.4	59.6	40.6	29.8	20.3	14.9	14.9
27.5°	1791.1	1257.3	425.4	85.4	51.5	27.1	9.5	1.4	0.0	0.0	0.0
30°	1877.9	1261.4	294.0	46.1	20.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1976.8	1260.0	184.3	24.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	2052.6	1237.0	88.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2167.8	1203.1	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2299.2	1142.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2417.1	1079.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2551.2	1002.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2787.0	970.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3094.5	944.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3284.2	868.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3383.1	789.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3529.4	752.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3746.2	754.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4084.9	792.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4271.9	754.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4113.4	604.3	25.7	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	3976.6	555.5	25.7	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	3286.9	361.8	24.4	6.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2394.1	200.5	20.3	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	1392.8	100.3	14.9	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	363.1	50.1	12.2	6.8	4.1	1.4	0.0	0.0	0.0	0.0	0.0
80°	71.8	32.5	10.8	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	33.9	23.0	10.8	8.1	6.8	4.1	1.4	0.0	0.0	0.0	0.0
85°	17.6	10.8	10.8	8.1	8.1	5.4	2.7	0.0	0.0	0.0	0.0
87.5°	8.1	4.1	4.1	4.1	4.1	2.7	1.4	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)