

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: P481623

Luminaire Tested: **IFLD-S-SA2B-735-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481623  
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-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

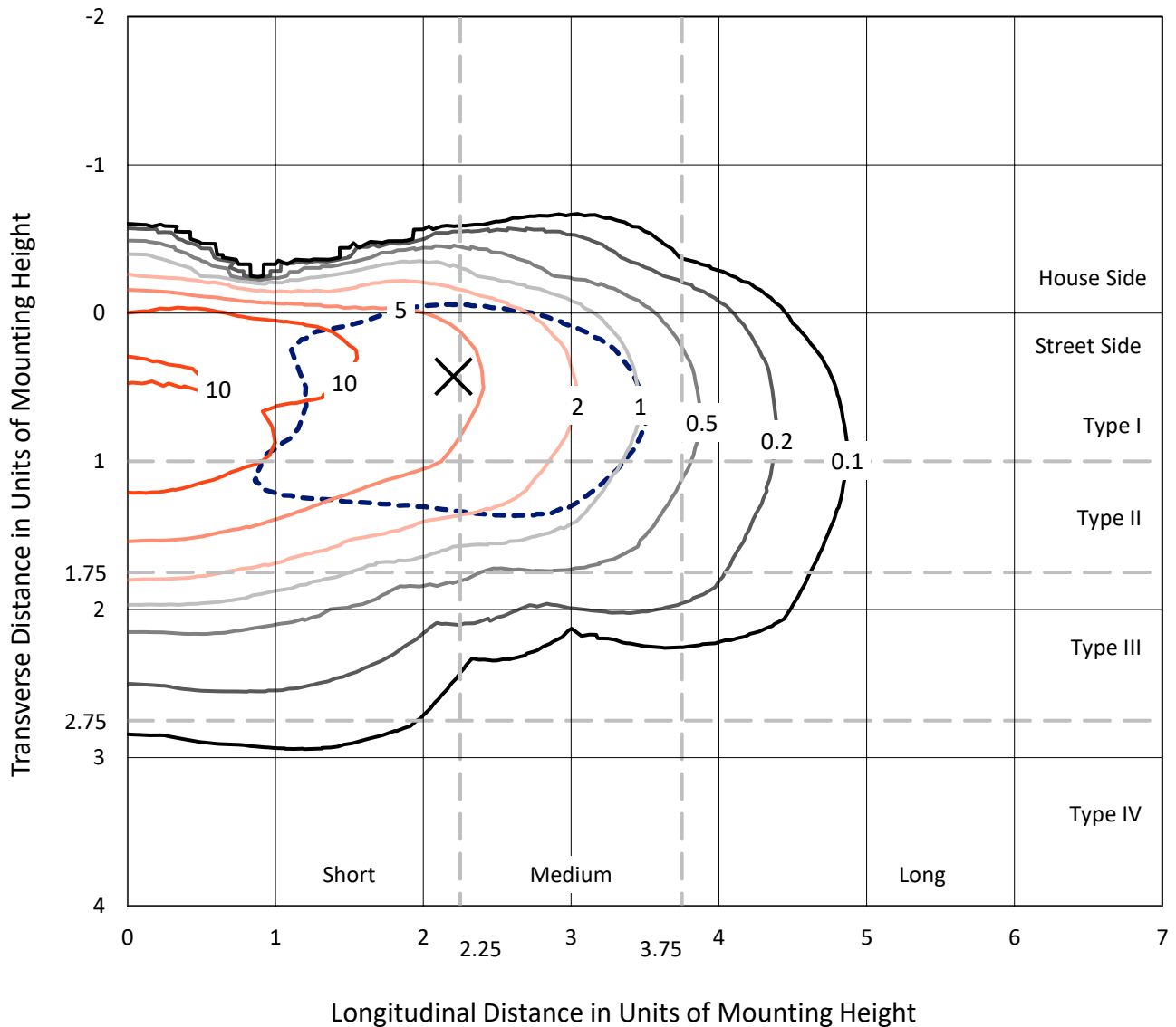
Lumens per Lamp: N/A  
Luminaire Lumens: 8109.8 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

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

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### Iso-Footcandle Lines of Horizontal Illumination

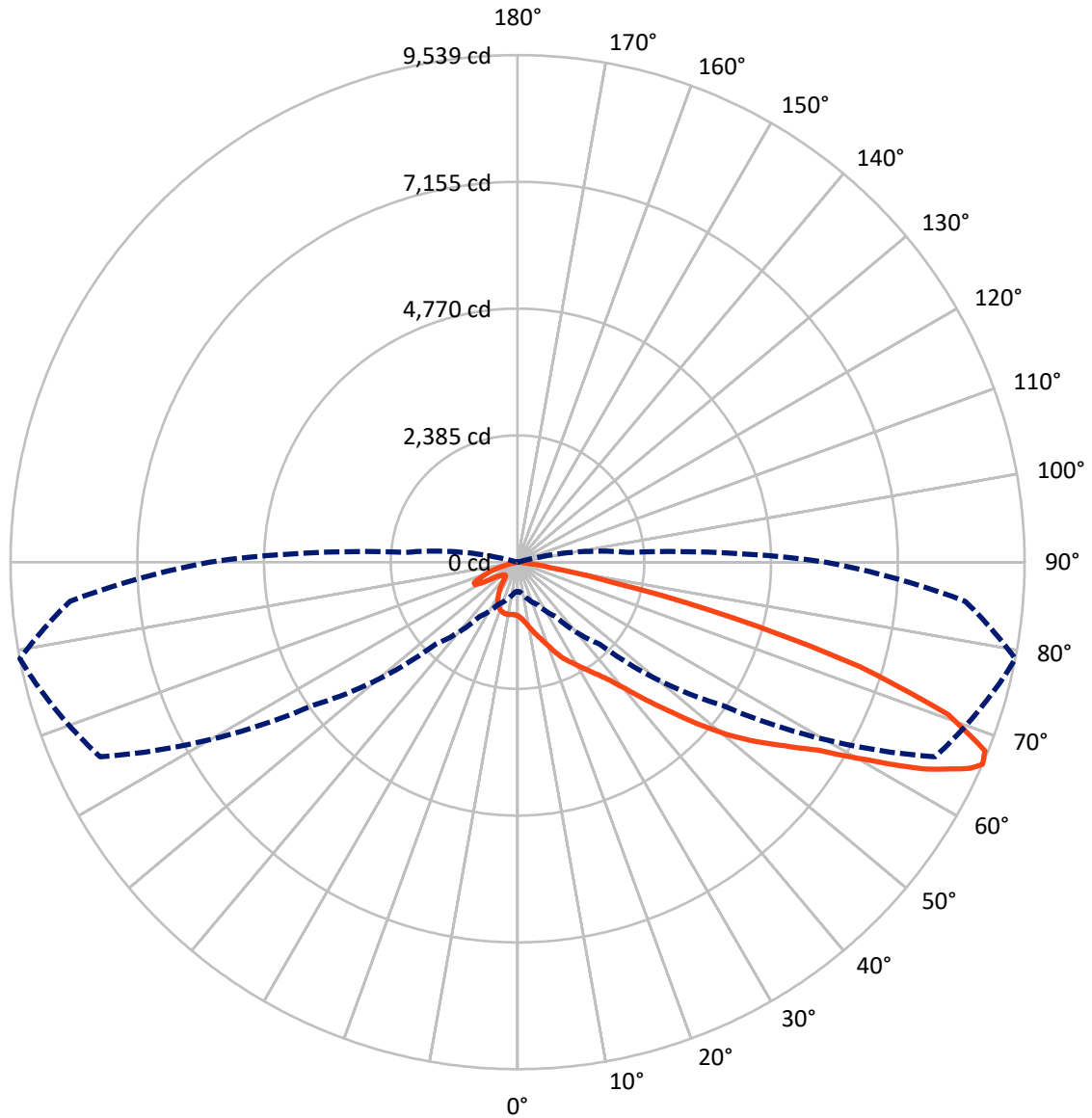
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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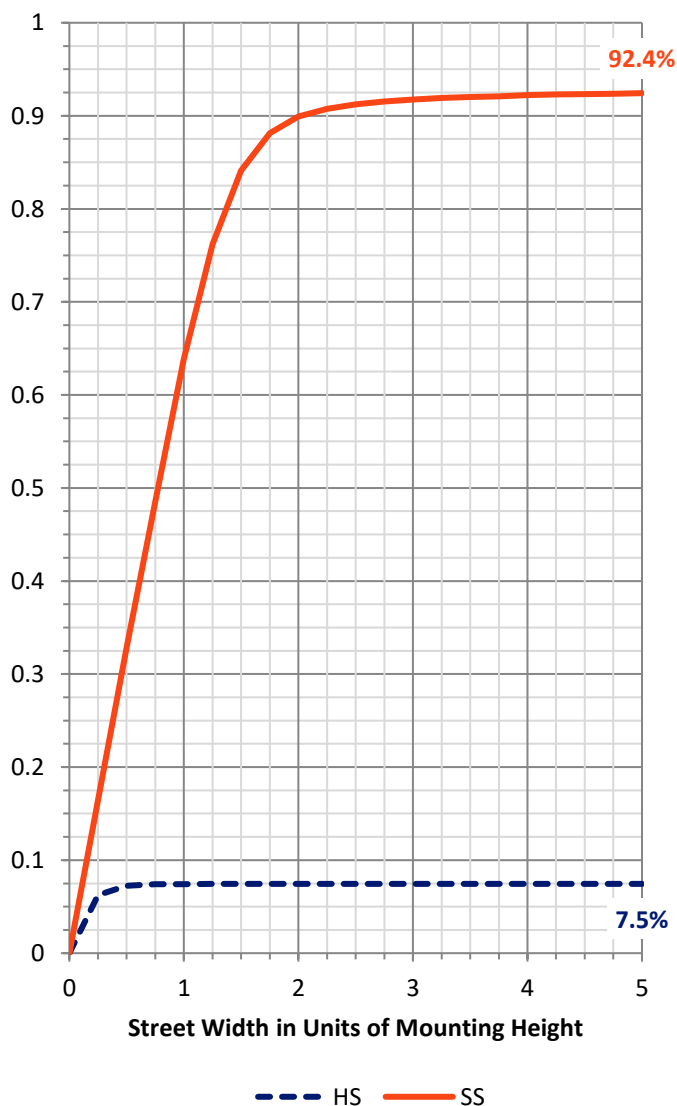
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	608.9	0.0	608.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	7500.8	0.0	7500.8
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	8109.8	0.0	8109.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.4	1.2
10°-20°	262.6	3.2
20°-30°	436.3	5.4
30°-40°	749.3	9.2
40°-50°	1357.5	16.7
50°-60°	2145.8	26.5
60°-70°	2183.5	26.9
70°-80°	832.7	10.3
80°-90°	46.7	0.6
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°	8109.8	100.0
0°-180°	8109.8	100.0

**Coefficient of Utilization**



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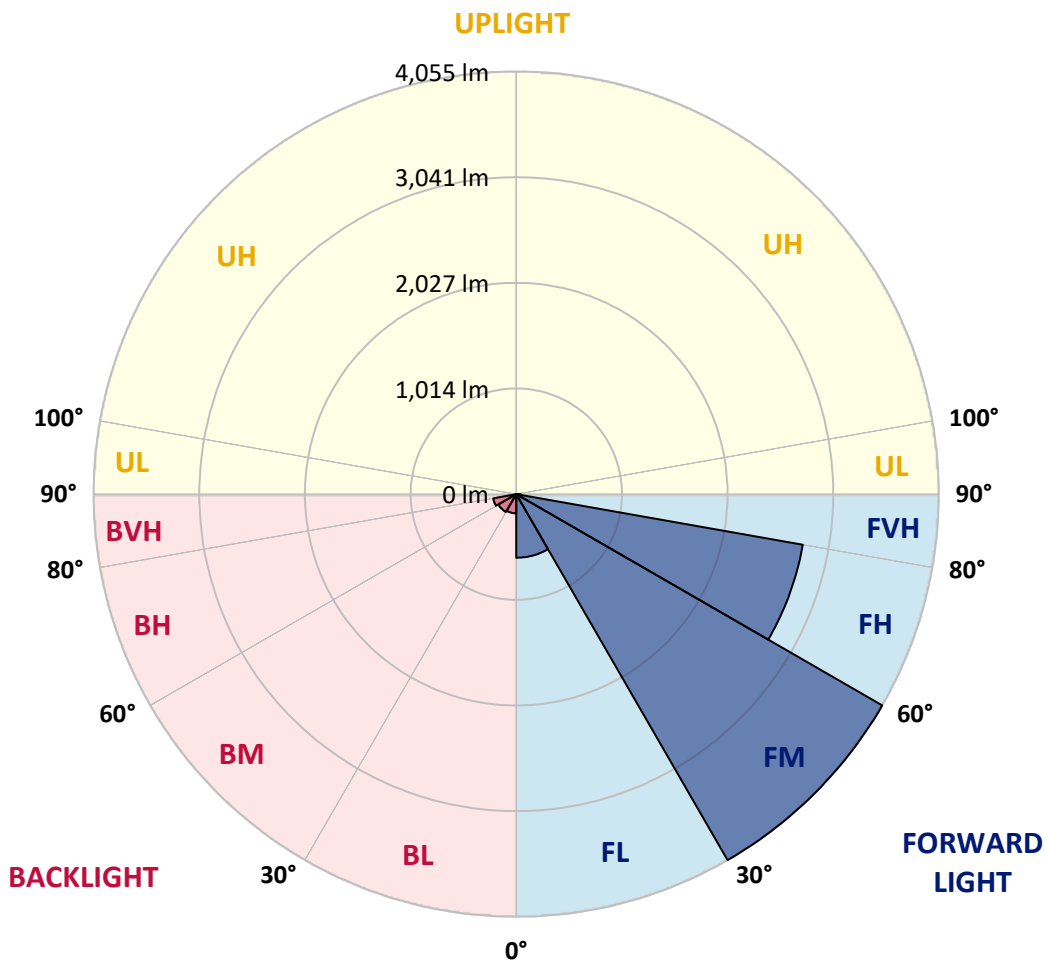
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.1	7.5			
FM (30°-60°)	4054.7	50.0			
FH (60°-80°)	2791.7	34.4			G2/5000
FVH (80°-90°)	44.3	0.5			G1/100
BL (0°-30°)	184.2	2.3	B1/500		
BM (30°-60°)	197.9	2.4	B0/220		
BH (60°-80°)	224.5	2.8	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9
2.5°	1142.7	1141.5	1136.5	1127.7	1116.5	1112.7	1096.5	1074.0	1061.5	1047.7	1041.5
5°	1221.5	1215.2	1230.2	1224.0	1226.5	1196.5	1176.5	1160.2	1112.7	1094.0	1064.0
7.5°	1239.0	1245.2	1244.0	1254.0	1264.0	1275.2	1261.5	1237.7	1190.2	1162.7	1130.2
10°	1239.0	1236.5	1246.5	1260.2	1289.0	1314.0	1351.5	1320.3	1284.0	1251.5	1192.7
12.5°	1216.5	1212.7	1222.7	1251.5	1302.8	1354.0	1395.3	1425.3	1374.0	1347.8	1271.5
15°	1147.7	1144.0	1185.2	1236.5	1304.0	1387.8	1474.0	1522.8	1487.8	1446.5	1361.5
17.5°	1062.7	1067.7	1111.5	1196.5	1304.0	1404.0	1514.0	1620.3	1615.3	1562.8	1474.0
20°	1034.0	1037.7	1081.5	1142.7	1265.2	1415.3	1576.6	1726.6	1756.6	1694.1	1577.8
22.5°	1089.0	1085.2	1089.0	1126.5	1239.0	1405.3	1617.8	1847.9	1901.6	1852.9	1714.1
25°	1276.5	1274.0	1242.7	1185.2	1224.0	1382.8	1639.1	1927.9	2051.7	2006.6	1824.1
27.5°	1551.6	1541.6	1492.8	1372.8	1294.0	1396.5	1674.1	2005.4	2182.9	2131.7	1922.9
30°	1846.6	1822.9	1759.1	1609.1	1475.3	1447.8	1694.1	2062.9	2329.2	2264.2	2009.1
32.5°	2050.4	2081.7	2061.7	1909.1	1704.1	1566.6	1726.6	2135.4	2464.2	2421.7	2156.7
35°	2365.5	2401.7	2318.0	2182.9	1976.6	1755.3	1795.4	2194.2	2671.8	2600.5	2294.2
37.5°	2763.0	2790.5	2730.5	2474.2	2256.7	1987.9	1936.6	2316.7	2850.6	2816.8	2470.5
40°	2963.1	3095.6	3010.6	2779.3	2545.5	2313.0	2170.4	2460.5	3161.9	3134.4	2714.3
42.5°	3239.4	3305.6	3261.9	3090.6	2846.8	2660.5	2459.2	2740.5	3539.4	3539.4	3044.3
45°	3531.9	3534.4	3531.9	3391.9	3175.6	3079.4	2849.3	3091.9	3945.8	3990.8	3439.4
47.5°	3772.0	3847.0	3840.8	3757.0	3589.5	3553.2	3239.4	3491.9	4455.9	4534.6	3824.5
50°	3895.8	3979.5	4004.5	4048.3	4040.8	4117.1	3665.7	3955.8	4896.0	5089.7	4319.6
52.5°	3862.0	3868.3	4022.0	4194.6	4469.6	4683.4	4179.6	4482.1	5411.1	5602.3	4702.2
55°	3585.7	3561.9	3878.3	4075.8	4644.7	5029.7	4891.0	5138.5	5812.4	6103.7	5097.2
57.5°	2979.3	2985.6	3278.1	3679.5	4514.6	5167.3	5651.1	5996.2	6375.0	6668.8	5652.4
60°	2056.7	2049.2	2376.7	2840.6	3750.7	4911.0	6088.7	7107.6	7127.6	7544.0	6648.8
62.5°	1156.5	1159.0	1407.8	1804.1	2624.3	4013.3	6067.4	8287.9	8202.9	8567.9	7781.5
65°	655.1	671.4	842.7	1069.0	1571.6	2694.3	5218.5	8758.0	9031.8	9356.8	8469.2
66°	553.9	565.1	711.4	882.7	1254.0	2185.4	4697.2	8666.7	9291.8	9539.4	8455.4
67.5°	428.8	443.8	566.4	700.1	920.2	1512.8	3780.7	8212.9	9339.3	9484.4	8216.6
70°	293.8	303.8	397.6	531.4	628.9	773.9	2260.4	6790.1	8474.2	8596.7	7141.4
72.5°	206.3	211.3	278.8	402.6	483.8	442.6	1121.5	4830.9	6485.0	6723.8	5554.8
75°	148.8	153.8	191.3	288.8	377.6	290.1	513.9	3085.6	3977.0	4164.6	3345.7
77.5°	107.5	113.8	130.0	186.3	273.8	203.8	252.5	1611.6	1875.4	1842.9	1439.0
80°	65.0	71.3	96.3	120.0	200.0	143.8	138.8	672.6	665.1	631.4	452.6
82.5°	30.0	35.0	51.3	81.3	140.0	100.0	66.3	240.0	210.0	192.5	127.5
85°	8.8	11.3	30.0	61.3	71.3	48.8	40.0	82.5	86.3	73.8	42.5
87.5°	0.0	1.3	13.8	15.0	21.3	16.3	15.0	21.3	40.0	32.5	13.8
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°	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9	1008.9
2.5°	1018.9	1010.2	988.9	956.4	927.7	912.7	891.4	872.7	862.7	861.4	860.2
5°	1044.0	1020.2	968.9	910.2	866.4	818.9	786.4	762.6	740.1	718.9	731.4
7.5°	1077.7	1040.2	956.4	880.2	785.2	723.9	666.4	632.6	612.6	593.9	591.4
10°	1130.2	1082.7	947.7	810.2	701.4	611.4	552.6	503.8	476.3	443.8	456.3
12.5°	1201.5	1116.5	915.2	746.4	606.4	511.3	427.6	348.8	305.1	271.3	272.6
15°	1272.7	1161.5	885.2	668.9	520.1	395.1	272.6	218.8	206.3	198.8	201.3
17.5°	1342.8	1197.7	838.9	590.1	421.3	251.3	198.8	187.5	181.3	173.8	173.8
20°	1427.8	1221.5	781.4	517.6	290.1	186.3	170.0	162.5	152.5	142.5	143.8
22.5°	1510.3	1241.5	715.1	425.1	195.0	161.3	142.5	132.5	123.8	113.8	113.8
25°	1592.8	1247.7	628.9	305.1	157.5	128.8	111.3	97.5	88.8	80.0	81.3
27.5°	1649.1	1209.0	547.6	195.0	126.3	97.5	77.5	66.3	58.8	50.0	50.0
30°	1681.6	1137.7	460.1	137.5	95.0	66.3	46.3	35.0	27.5	21.3	20.0
32.5°	1714.1	1080.2	361.3	105.0	62.5	35.0	17.5	6.3	0.0	0.0	0.0
35°	1779.1	1015.2	242.5	58.8	21.3	1.3	0.0	0.0	0.0	0.0	0.0
37.5°	1820.4	925.2	111.3	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1924.1	880.2	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2092.9	848.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2277.9	836.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2524.2	870.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2784.3	961.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3069.4	1047.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3318.1	1151.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3775.7	1396.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4597.1	1877.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5522.3	2235.4	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5861.1	2226.7	23.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5801.1	2104.2	23.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5489.8	1869.1	21.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4714.7	1544.1	21.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3594.5	1202.7	20.0	5.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2169.2	640.1	16.3	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	863.9	225.0	12.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	233.8	67.5	7.5	5.0	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	61.3	25.0	6.3	5.0	2.5	1.3	0.0	0.0	0.0	0.0	0.0
85°	23.8	10.0	5.0	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0
87.5°	7.5	3.8	3.8	2.5	2.5	1.3	1.3	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)