

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: P481798

Luminaire Tested: **IFLD-S-SA6A-827-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481798  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-827-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

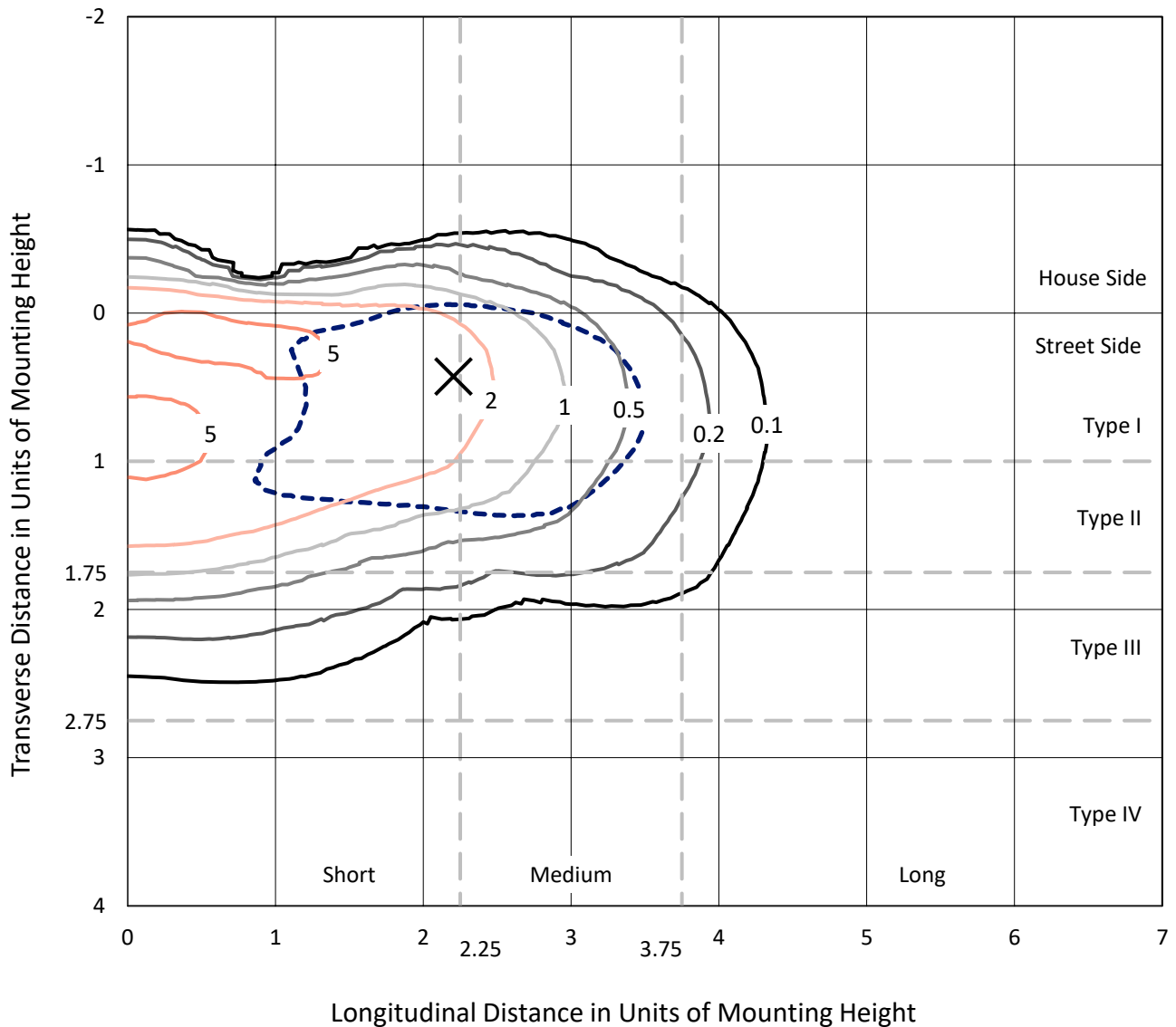
Lumens per Lamp: N/A  
Luminaire Lumens: 14287.7 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 189.6  
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

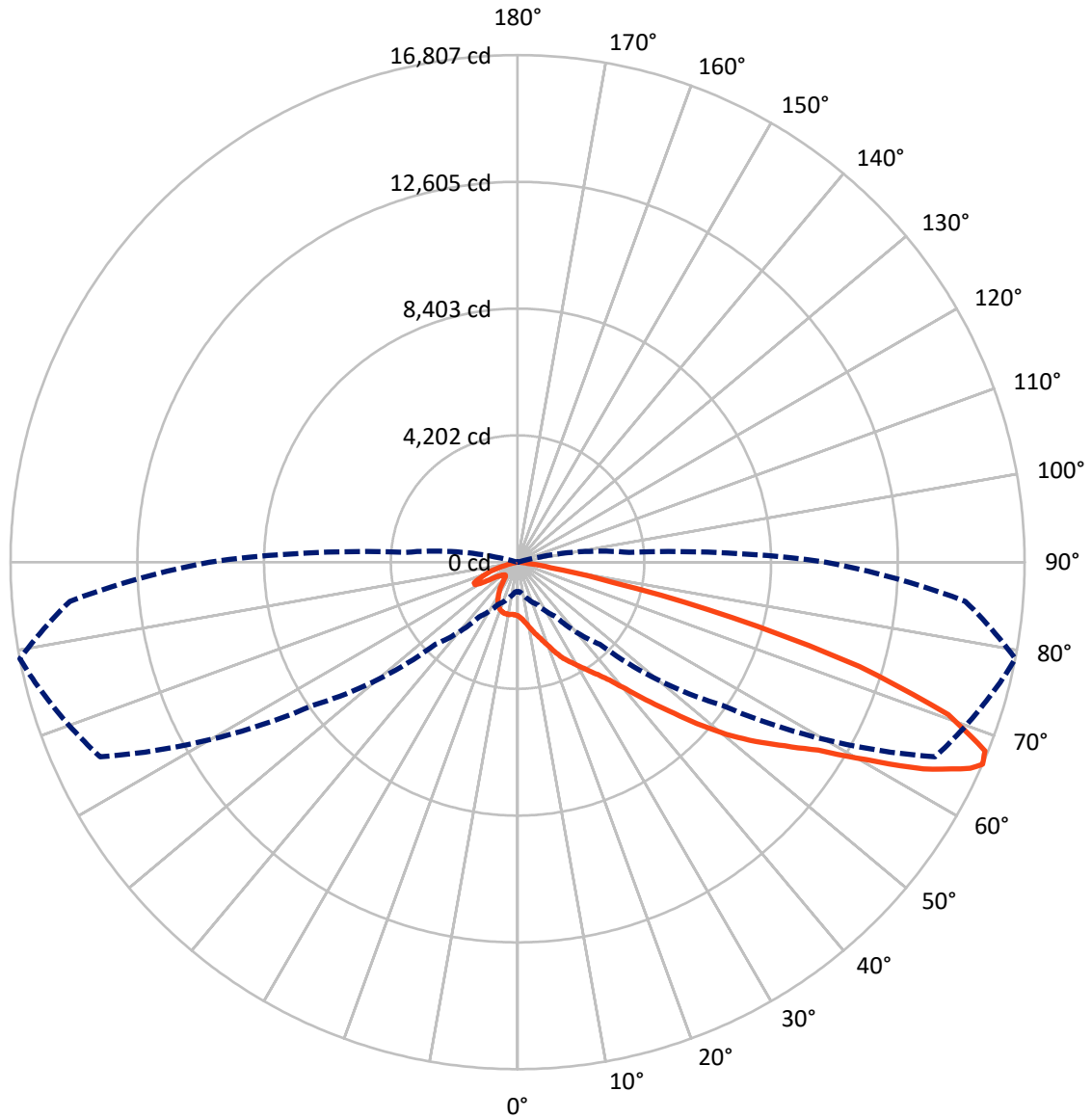
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 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	1072.8	0.0	1072.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	13214.9	0.0	13214.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	14287.7	0.0	14287.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.1	1.2
10°-20°	462.7	3.2
20°-30°	768.6	5.4
30°-40°	1320.2	9.2
40°-50°	2391.6	16.7
50°-60°	3780.5	26.5
60°-70°	3846.9	26.9
70°-80°	1467.0	10.3
80°-90°	82.2	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°	14287.7	100.0
0°-180°	14287.7	100.0



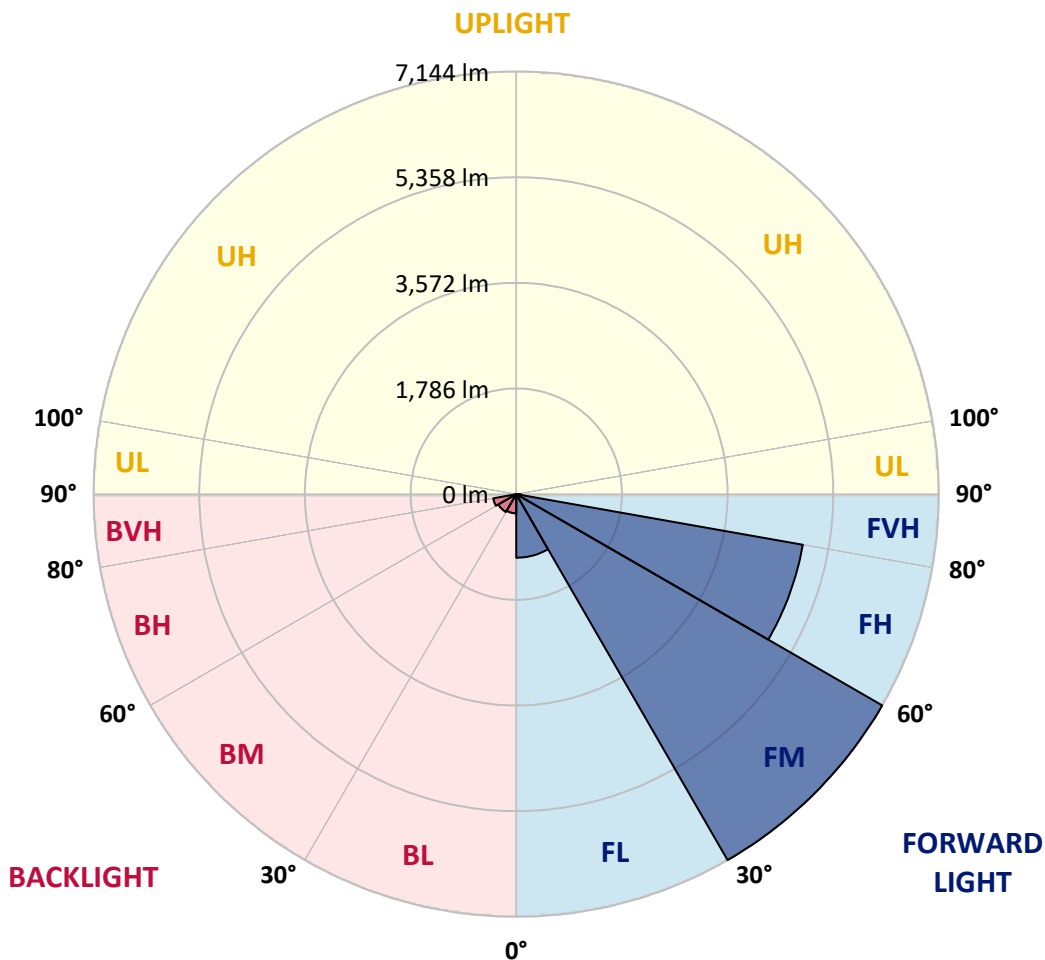
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.9	7.5			
FM (30°-60°)	7143.6	50.0			
FH (60°-80°)	4918.4	34.4			G2/5000
FVH (80°-90°)	78.0	0.5			G1/100
BL (0°-30°)	324.4	2.3	B1/500		
BM (30°-60°)	348.7	2.4	B1/1000		
BH (60°-80°)	395.5	2.8	B1/500		G1/500
BVH (80°-90°)	4.2	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°	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6
2.5°	2013.3	2011.1	2002.2	1986.8	1967.0	1960.4	1931.8	1892.1	1870.1	1845.9	1834.8
5°	2152.0	2141.0	2167.4	2156.4	2160.8	2108.0	2072.7	2044.1	1960.4	1927.4	1874.5
7.5°	2182.9	2193.9	2191.7	2209.3	2226.9	2246.7	2222.5	2180.7	2097.0	2048.5	1991.2
10°	2182.9	2178.5	2196.1	2220.3	2271.0	2315.0	2381.1	2326.0	2262.2	2204.9	2101.4
12.5°	2143.2	2136.6	2154.2	2204.9	2295.2	2385.5	2458.2	2511.1	2420.8	2374.5	2240.1
15°	2022.1	2015.5	2088.1	2178.5	2297.4	2445.0	2597.0	2682.9	2621.2	2548.5	2398.7
17.5°	1872.3	1881.1	1958.2	2108.0	2297.4	2473.6	2667.5	2854.7	2845.9	2753.4	2597.0
20°	1821.6	1828.2	1905.3	2013.3	2229.1	2493.4	2777.6	3041.9	3094.8	2984.6	2779.8
22.5°	1918.5	1911.9	1918.5	1984.6	2182.9	2475.8	2850.3	3255.6	3350.3	3264.4	3019.9
25°	2248.9	2244.5	2189.5	2088.1	2156.4	2436.2	2887.7	3396.5	3614.6	3535.3	3213.7
27.5°	2733.5	2715.9	2630.0	2418.6	2279.8	2460.4	2949.4	3533.1	3845.9	3755.6	3387.7
30°	3253.4	3211.5	3099.2	2834.9	2599.2	2550.7	2984.6	3634.4	4103.6	3989.1	3539.7
32.5°	3612.4	3667.5	3632.2	3363.5	3002.3	2760.0	3041.9	3762.2	4341.5	4266.6	3799.6
35°	4167.5	4231.4	4083.8	3845.9	3482.4	3092.6	3163.1	3865.7	4707.1	4581.6	4041.9
37.5°	4867.9	4916.4	4810.7	4359.1	3975.9	3502.3	3412.0	4081.6	5022.1	4962.7	4352.5
40°	5220.4	5453.9	5304.1	4896.6	4484.7	4075.0	3823.9	4334.9	5570.6	5522.1	4782.0
42.5°	5707.2	5823.9	5746.8	5445.0	5015.5	4687.3	4332.7	4828.3	6235.8	6235.8	5363.5
45°	6222.6	6227.0	6222.6	5975.9	5594.8	5425.2	5019.9	5447.2	6951.7	7031.0	6059.6
47.5°	6645.5	6777.7	6766.7	6619.1	6323.9	6260.0	5707.2	6152.1	7850.4	7989.1	6738.0
50°	6863.6	7011.2	7055.2	7132.3	7119.1	7253.5	6458.3	6969.3	8625.7	8967.1	7610.3
52.5°	6804.1	6815.1	7086.0	7390.0	7874.6	8251.3	7363.6	7896.6	9533.2	9870.2	8284.3
55°	6317.3	6275.5	6832.7	7180.8	8183.0	8861.4	8616.9	9053.0	10240.3	10753.5	8980.4
57.5°	5249.0	5260.0	5775.4	6482.5	7953.9	9103.7	9956.1	10564.1	11231.5	11749.1	9958.4
60°	3623.4	3610.2	4187.3	5004.5	6608.1	8652.2	10727.1	12522.3	12557.5	13291.0	11713.9
62.5°	2037.5	2041.9	2480.2	3178.5	4623.4	7070.6	10689.6	14601.6	14451.8	15095.0	13709.5
65°	1154.2	1182.8	1484.6	1883.3	2768.8	4746.8	9194.0	15429.8	15912.2	16484.9	14921.0
66°	975.8	995.6	1253.3	1555.1	2209.3	3850.3	8275.5	15269.0	16370.4	16806.5	14896.8
67.5°	755.5	782.0	997.8	1233.5	1621.2	2665.3	6660.9	14469.5	16454.1	16709.6	14476.1
70°	517.6	535.3	700.5	936.1	1108.0	1363.5	3982.5	11962.8	14929.8	15145.7	12581.8
72.5°	363.4	372.3	491.2	709.3	852.4	779.8	1975.8	8511.2	11425.3	11846.1	9786.5
75°	262.1	270.9	337.0	508.8	665.2	511.0	905.3	5436.2	7006.8	7337.2	5894.4
77.5°	189.4	200.4	229.1	328.2	482.4	359.0	444.9	2839.3	3304.0	3246.8	2535.3
80°	114.5	125.6	169.6	211.5	352.4	253.3	244.5	1185.0	1171.8	1112.4	797.4
82.5°	52.9	61.7	90.3	143.2	246.7	176.2	116.7	422.9	370.1	339.2	224.7
85°	15.4	19.8	52.9	107.9	125.6	85.9	70.5	145.4	152.0	130.0	74.9
87.5°	0.0	2.2	24.2	26.4	37.4	28.6	26.4	37.4	70.5	57.3	24.2
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°	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6	1777.6
2.5°	1795.2	1779.8	1742.3	1685.1	1634.4	1608.0	1570.5	1537.5	1519.9	1517.7	1515.4
5°	1839.2	1797.4	1707.1	1603.6	1526.5	1442.8	1385.5	1343.6	1304.0	1266.5	1288.6
7.5°	1898.7	1832.6	1685.1	1550.7	1383.3	1275.4	1174.0	1114.6	1079.3	1046.3	1041.9
10°	1991.2	1907.5	1669.6	1427.3	1235.7	1077.1	973.6	887.7	839.2	782.0	804.0
12.5°	2116.8	1967.0	1612.4	1315.0	1068.3	900.9	753.3	614.5	537.5	478.0	480.2
15°	2242.3	2046.3	1559.5	1178.4	916.3	696.0	480.2	385.5	363.4	350.2	354.6
17.5°	2365.7	2110.2	1478.0	1039.7	742.3	442.7	350.2	330.4	319.4	306.2	306.2
20°	2515.5	2152.0	1376.7	911.9	511.0	328.2	299.6	286.3	268.7	251.1	253.3
22.5°	2660.8	2187.3	1259.9	748.9	343.6	284.1	251.1	233.5	218.1	200.4	200.4
25°	2806.2	2198.3	1108.0	537.5	277.5	226.9	196.0	171.8	156.4	141.0	143.2
27.5°	2905.3	2130.0	964.8	343.6	222.5	171.8	136.6	116.7	103.5	88.1	88.1
30°	2962.6	2004.4	810.6	242.3	167.4	116.7	81.5	61.7	48.5	37.4	35.2
32.5°	3019.9	1903.1	636.6	185.0	110.1	61.7	30.8	11.0	0.0	0.0	0.0
35°	3134.4	1788.6	427.3	103.5	37.4	2.2	0.0	0.0	0.0	0.0	0.0
37.5°	3207.1	1630.0	196.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3389.9	1550.7	48.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3687.3	1495.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4013.3	1473.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4447.2	1533.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4905.4	1693.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5407.6	1845.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5845.9	2028.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6652.1	2460.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8099.3	3308.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9729.3	3938.4	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10326.2	3923.0	41.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10220.5	3707.1	41.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9672.0	3293.0	37.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8306.3	2720.3	37.4	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6332.7	2119.0	35.2	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	3821.7	1127.8	28.6	11.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1522.1	396.5	22.0	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	411.9	118.9	13.2	8.8	6.6	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	107.9	44.1	11.0	8.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0
85°	41.9	17.6	8.8	6.6	6.6	4.4	2.2	0.0	0.0	0.0	0.0
87.5°	13.2	6.6	6.6	4.4	4.4	2.2	2.2	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)