

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: P481625

Luminaire Tested: **IFLD-S-SA2D-735-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481625  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-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**

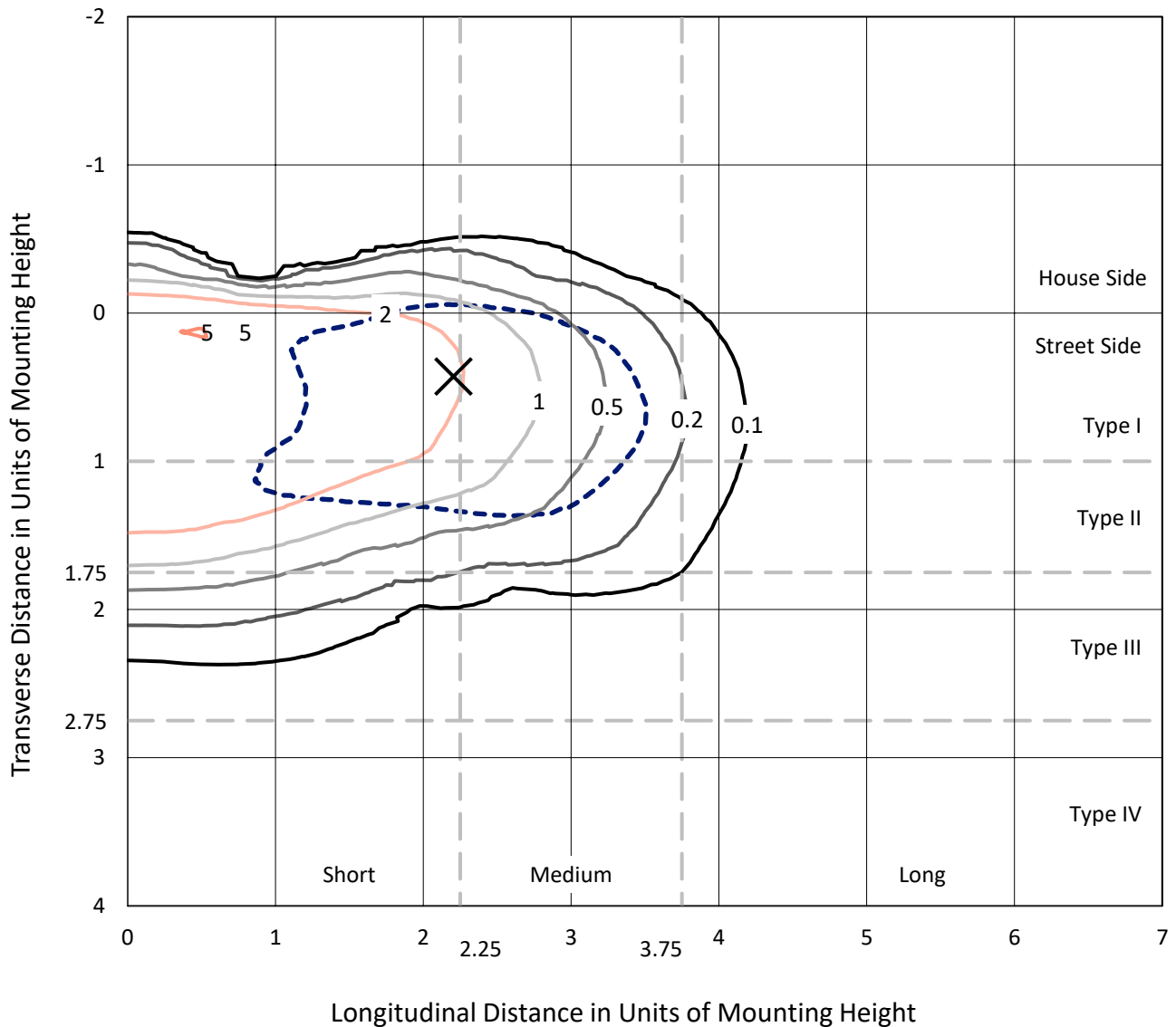
Lumens per Lamp: N/A  
Luminaire Lumens: 11108.3 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
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

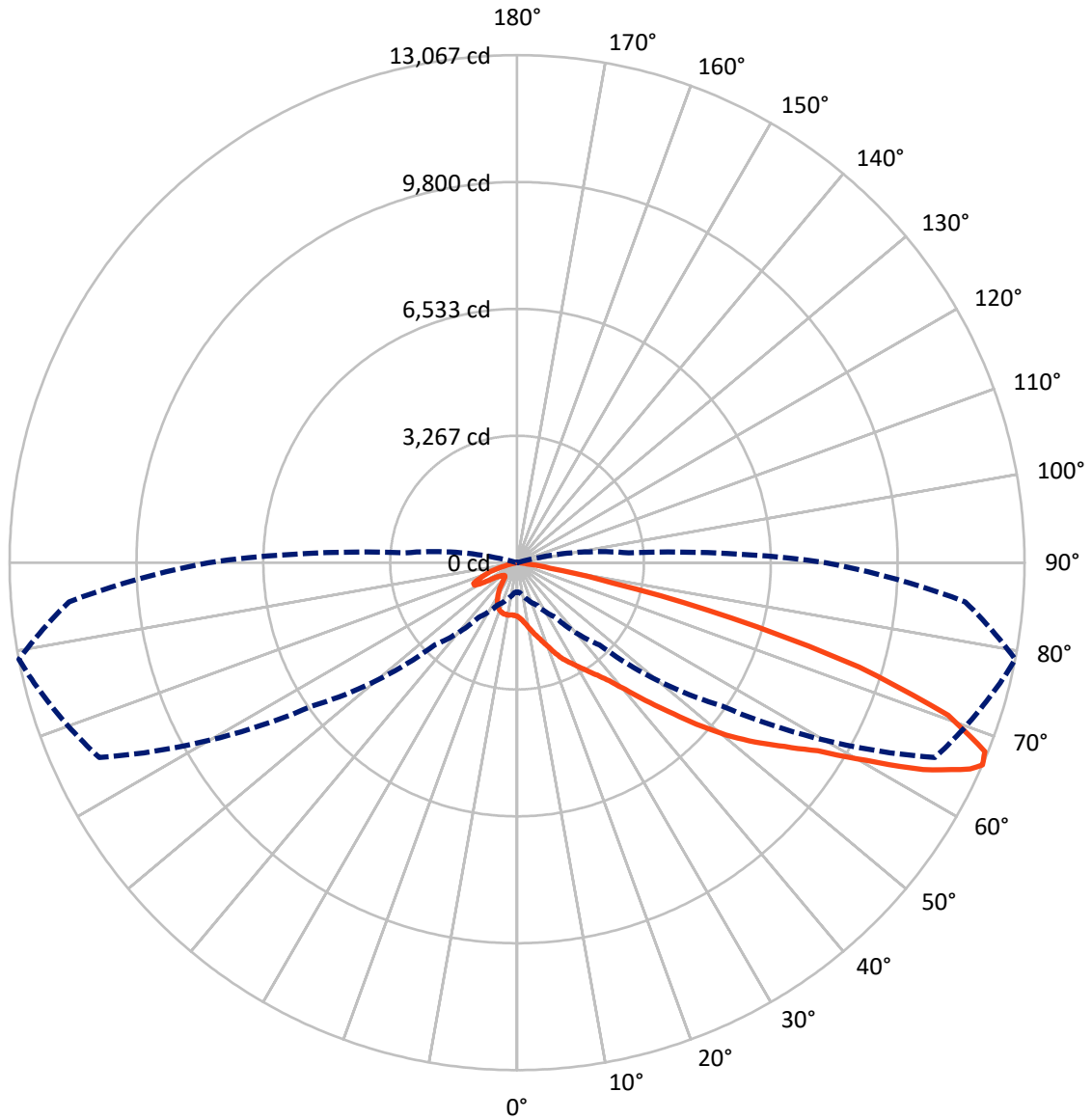
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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	834.1	0.0	834.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	10274.2	0.0	10274.2
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	11108.3	0.0	11108.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.7	1.2
10°-20°	359.7	3.2
20°-30°	597.6	5.4
30°-40°	1026.4	9.2
40°-50°	1859.4	16.7
50°-60°	2939.2	26.5
60°-70°	2990.8	26.9
70°-80°	1140.6	10.3
80°-90°	63.9	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°	11108.3	100.0
0°-180°	11108.3	100.0

**Coefficient of Utilization**

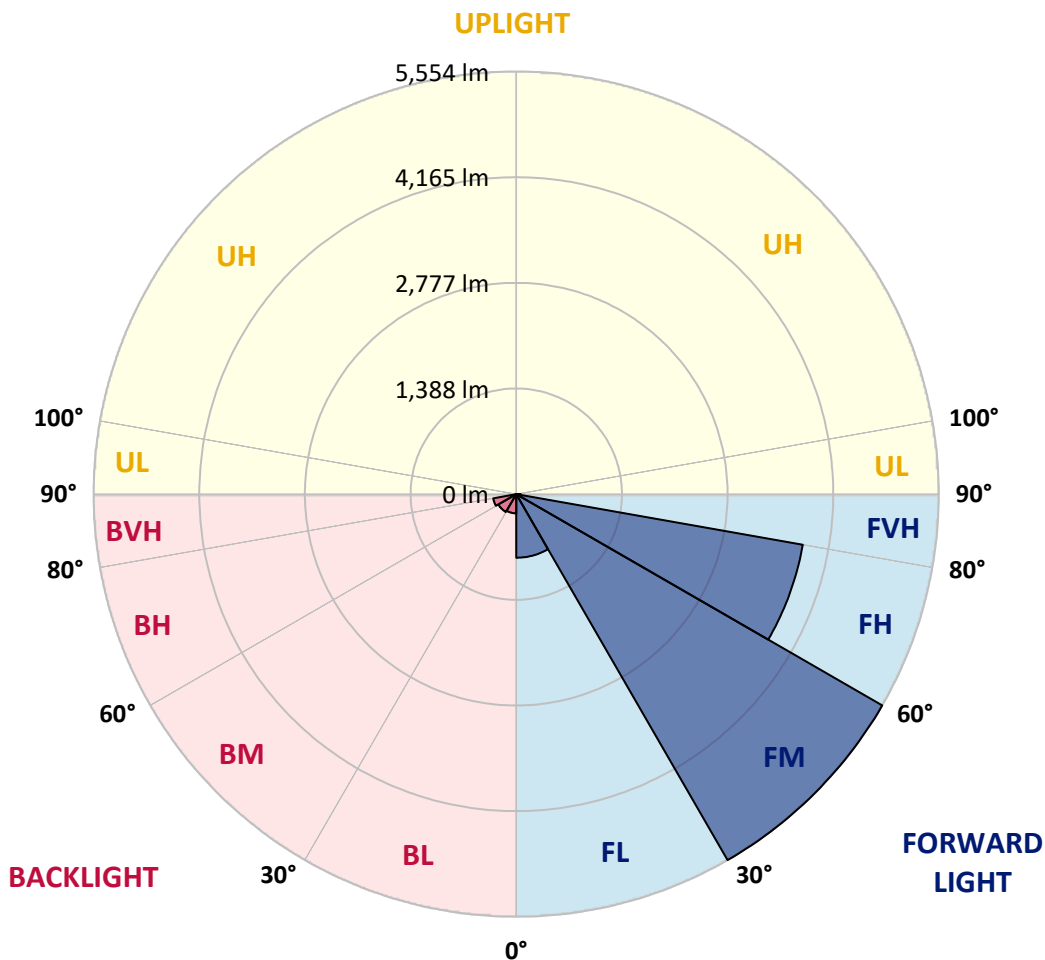


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.7	7.5			
FM (30°-60°)	5553.9	50.0			
FH (60°-80°)	3823.9	34.4			G2/5000
FVH (80°-90°)	60.7	0.5			G1/100
BL (0°-30°)	252.2	2.3	B1/500		
BM (30°-60°)	271.1	2.4	B1/1000		
BH (60°-80°)	307.5	2.8	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0
2.5°	1565.2	1563.5	1556.7	1544.7	1529.3	1524.1	1501.9	1471.1	1453.9	1435.1	1426.5
5°	1673.1	1664.6	1685.1	1676.6	1680.0	1638.9	1611.5	1589.2	1524.1	1498.5	1457.4
7.5°	1697.1	1705.7	1704.0	1717.7	1731.4	1746.8	1727.9	1695.4	1630.3	1592.6	1548.1
10°	1697.1	1693.7	1707.4	1726.2	1765.6	1799.9	1851.2	1808.4	1758.8	1714.2	1633.7
12.5°	1666.3	1661.2	1674.9	1714.2	1784.5	1854.7	1911.2	1952.3	1882.1	1846.1	1741.6
15°	1572.1	1567.0	1623.5	1693.7	1786.2	1900.9	2019.1	2085.9	2037.9	1981.4	1864.9
17.5°	1455.6	1462.5	1522.4	1638.9	1786.2	1923.2	2073.9	2219.4	2212.6	2140.7	2019.1
20°	1416.3	1421.4	1481.3	1565.2	1733.1	1938.6	2159.5	2365.0	2406.1	2320.5	2161.2
22.5°	1491.6	1486.5	1491.6	1543.0	1697.1	1924.9	2216.0	2531.1	2604.8	2538.0	2347.9
25°	1748.5	1745.1	1702.3	1623.5	1676.6	1894.1	2245.1	2640.7	2810.3	2748.6	2498.6
27.5°	2125.2	2111.5	2044.8	1880.4	1772.5	1912.9	2293.1	2746.9	2990.1	2919.9	2633.9
30°	2529.4	2496.9	2409.5	2204.0	2020.8	1983.1	2320.5	2825.7	3190.4	3101.4	2752.0
32.5°	2808.5	2851.4	2824.0	2615.0	2334.2	2145.8	2365.0	2925.0	3375.4	3317.2	2954.1
35°	3240.1	3289.8	3175.0	2990.1	2707.5	2404.4	2459.2	3005.5	3659.7	3562.1	3142.5
37.5°	3784.7	3822.4	3740.2	3389.1	3091.1	2722.9	2652.7	3173.3	3904.6	3858.3	3384.0
40°	4058.7	4240.2	4123.8	3806.9	3486.7	3168.2	2972.9	3370.3	4331.0	4293.3	3717.9
42.5°	4437.2	4527.9	4468.0	4233.4	3899.4	3644.3	3368.5	3753.9	4848.2	4848.2	4170.0
45°	4837.9	4841.3	4837.9	4646.1	4349.8	4218.0	3902.8	4235.1	5404.7	5466.4	4711.2
47.5°	5166.7	5269.4	5260.9	5146.1	4916.7	4867.0	4437.2	4783.1	6103.4	6211.3	5238.6
50°	5336.2	5451.0	5485.2	5545.2	5534.9	5639.3	5021.1	5418.4	6706.3	6971.7	5916.8
52.5°	5290.0	5298.6	5509.2	5745.5	6122.3	6415.1	5725.0	6139.4	7411.8	7673.8	6440.8
55°	4911.5	4879.0	5312.3	5582.8	6362.0	6889.5	6699.4	7038.5	7961.5	8360.6	6982.0
57.5°	4080.9	4089.5	4490.2	5040.0	6183.9	7077.9	7740.6	8213.3	8732.2	9134.6	7742.3
60°	2817.1	2806.8	3255.5	3890.9	5137.6	6726.8	8340.0	9735.7	9763.1	10333.4	9107.2
62.5°	1584.1	1587.5	1928.3	2471.2	3594.6	5497.2	8310.9	11352.3	11235.9	11735.9	10658.8
65°	897.4	919.6	1154.2	1464.2	2152.6	3690.5	7148.1	11996.2	12371.3	12816.5	11600.7
66°	758.6	774.1	974.4	1209.0	1717.7	2993.5	6434.0	11871.2	12727.5	13066.6	11581.8
67.5°	587.4	607.9	775.8	959.0	1260.4	2072.2	5178.7	11249.6	12792.6	12991.2	11254.7
70°	402.4	416.1	544.6	727.8	861.4	1060.1	3096.2	9300.7	11607.5	11775.3	9781.9
72.5°	282.6	289.4	381.9	551.4	662.7	606.2	1536.1	6617.2	8882.9	9210.0	7608.8
75°	203.8	210.6	262.0	395.6	517.2	397.3	703.8	4226.5	5447.5	5704.4	4582.7
77.5°	147.3	155.8	178.1	255.2	375.0	279.1	345.9	2207.4	2568.8	2524.3	1971.1
80°	89.1	97.6	131.9	164.4	274.0	196.9	190.1	921.3	911.1	864.8	619.9
82.5°	41.1	48.0	70.2	111.3	191.8	137.0	90.8	328.8	287.7	263.7	174.7
85°	12.0	15.4	41.1	83.9	97.6	66.8	54.8	113.0	118.2	101.0	58.2
87.5°	0.0	1.7	18.8	20.6	29.1	22.3	20.6	29.1	54.8	44.5	18.8
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°	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0	1382.0
2.5°	1395.7	1383.7	1354.6	1310.1	1270.7	1250.1	1221.0	1195.3	1181.6	1179.9	1178.2
5°	1430.0	1397.4	1327.2	1246.7	1186.8	1121.7	1077.2	1044.6	1013.8	984.7	1001.8
7.5°	1476.2	1424.8	1310.1	1205.6	1075.5	991.6	912.8	866.5	839.1	813.4	810.0
10°	1548.1	1483.0	1298.1	1109.7	960.7	837.4	756.9	690.1	652.5	607.9	625.1
12.5°	1645.7	1529.3	1253.6	1022.4	830.6	700.4	585.7	477.8	417.9	371.6	373.3
15°	1743.4	1590.9	1212.5	916.2	712.4	541.2	373.3	299.7	282.6	272.3	275.7
17.5°	1839.3	1640.6	1149.1	808.3	577.1	344.2	272.3	256.9	248.3	238.0	238.0
20°	1955.7	1673.1	1070.3	709.0	397.3	255.2	232.9	222.6	208.9	195.2	196.9
22.5°	2068.7	1700.5	979.6	582.3	267.2	220.9	195.2	181.5	169.5	155.8	155.8
25°	2181.8	1709.1	861.4	417.9	215.8	176.4	152.4	133.6	121.6	109.6	111.3
27.5°	2258.8	1656.0	750.1	267.2	173.0	133.6	106.2	90.8	80.5	68.5	68.5
30°	2303.3	1558.4	630.2	188.4	130.2	90.8	63.4	48.0	37.7	29.1	27.4
32.5°	2347.9	1479.6	494.9	143.9	85.6	48.0	24.0	8.6	0.0	0.0	0.0
35°	2436.9	1390.6	332.2	80.5	29.1	1.7	0.0	0.0	0.0	0.0	0.0
37.5°	2493.4	1267.3	152.4	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2635.6	1205.6	37.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2866.8	1162.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3120.2	1145.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3457.6	1191.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3813.8	1316.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4204.3	1435.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4545.0	1577.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5171.8	1912.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6297.0	2572.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7564.2	3062.0	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8028.3	3050.0	32.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7946.1	2882.2	32.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7519.7	2560.2	29.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6457.9	2115.0	29.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4923.5	1647.5	27.4	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2971.2	876.8	22.3	8.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1183.4	308.3	17.1	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	320.2	92.5	10.3	6.9	5.1	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	83.9	34.3	8.6	6.9	3.4	1.7	0.0	0.0	0.0	0.0	0.0
85°	32.5	13.7	6.9	5.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0
87.5°	10.3	5.1	5.1	3.4	3.4	1.7	1.7	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)