

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: P481663

Luminaire Tested: **IFLD-S-SA2C-740-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481663  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-740-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

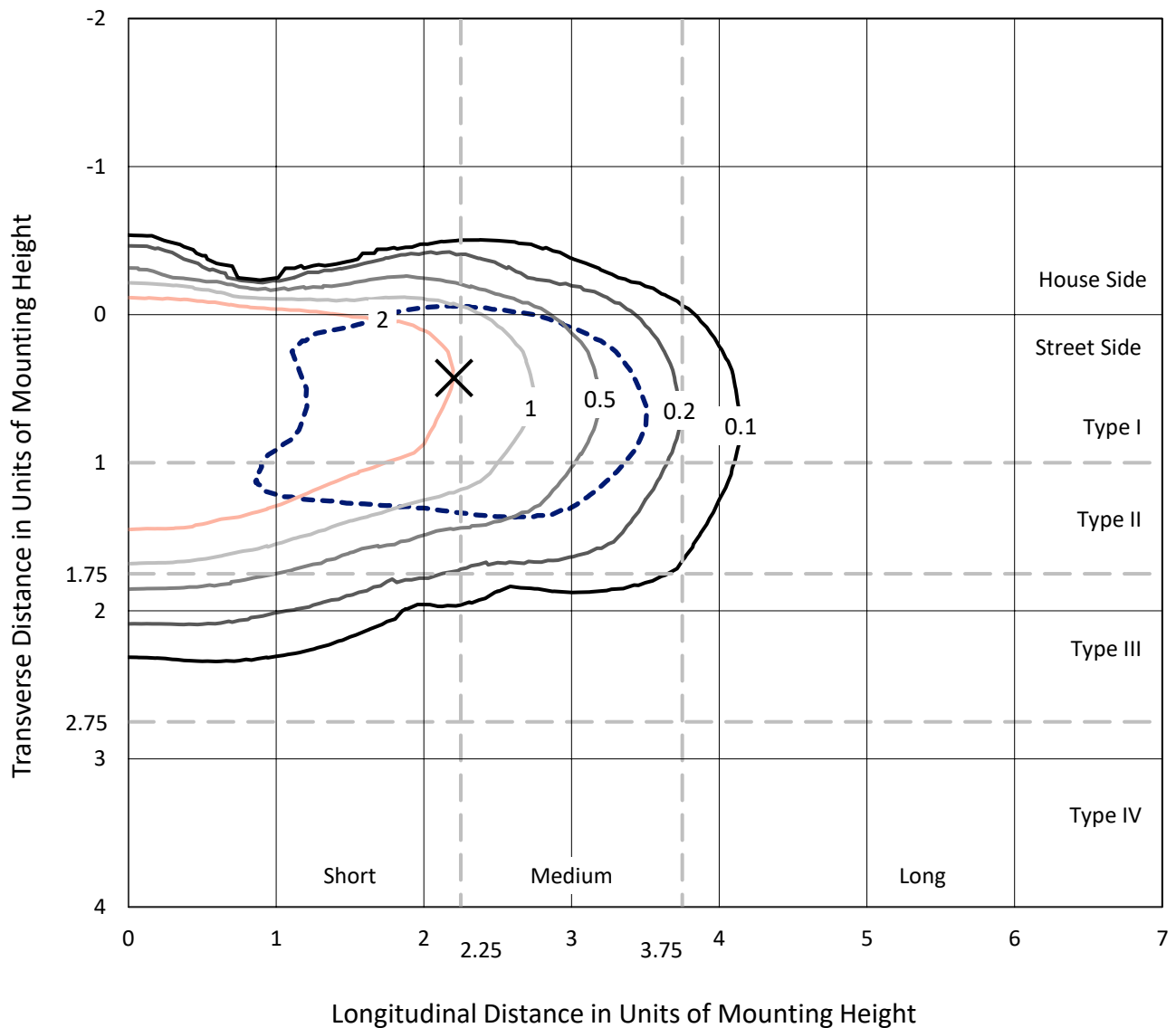
Lumens per Lamp: N/A  
Luminaire Lumens: 10235.6 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

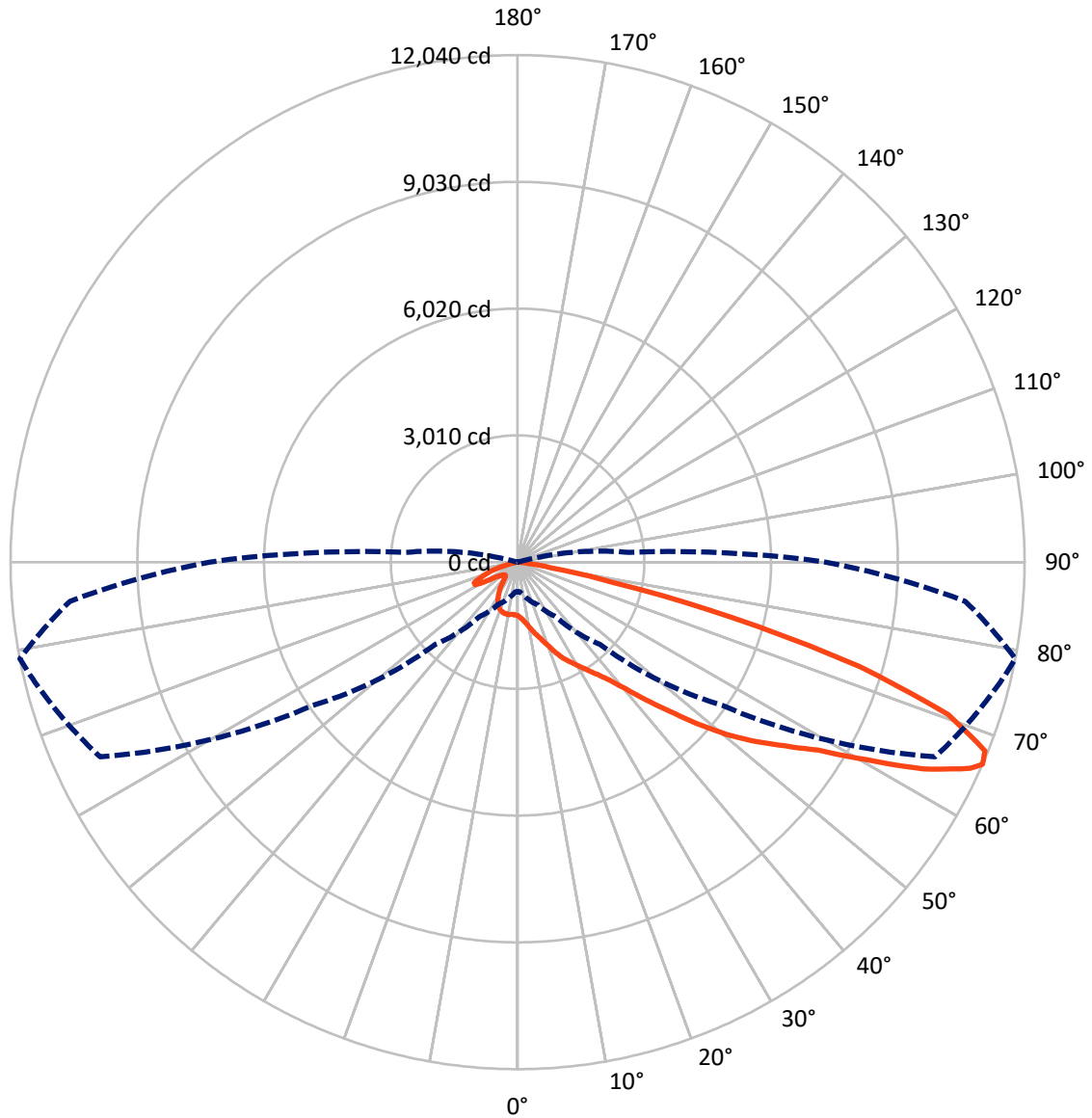
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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CATALOG NUMBER: IFLD-S-SA2C-740-U-T2-HSS

### 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	768.6	0.0	768.6
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	9467.1	0.0	9467.1
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	10235.6	0.0	10235.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.4	1.2
10°-20°	331.4	3.2
20°-30°	550.6	5.4
30°-40°	945.7	9.2
40°-50°	1713.3	16.7
50°-60°	2708.3	26.5
60°-70°	2755.9	26.9
70°-80°	1051.0	10.3
80°-90°	58.9	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°	10235.6	100.0
0°-180°	10235.6	100.0

**Coefficient of Utilization**

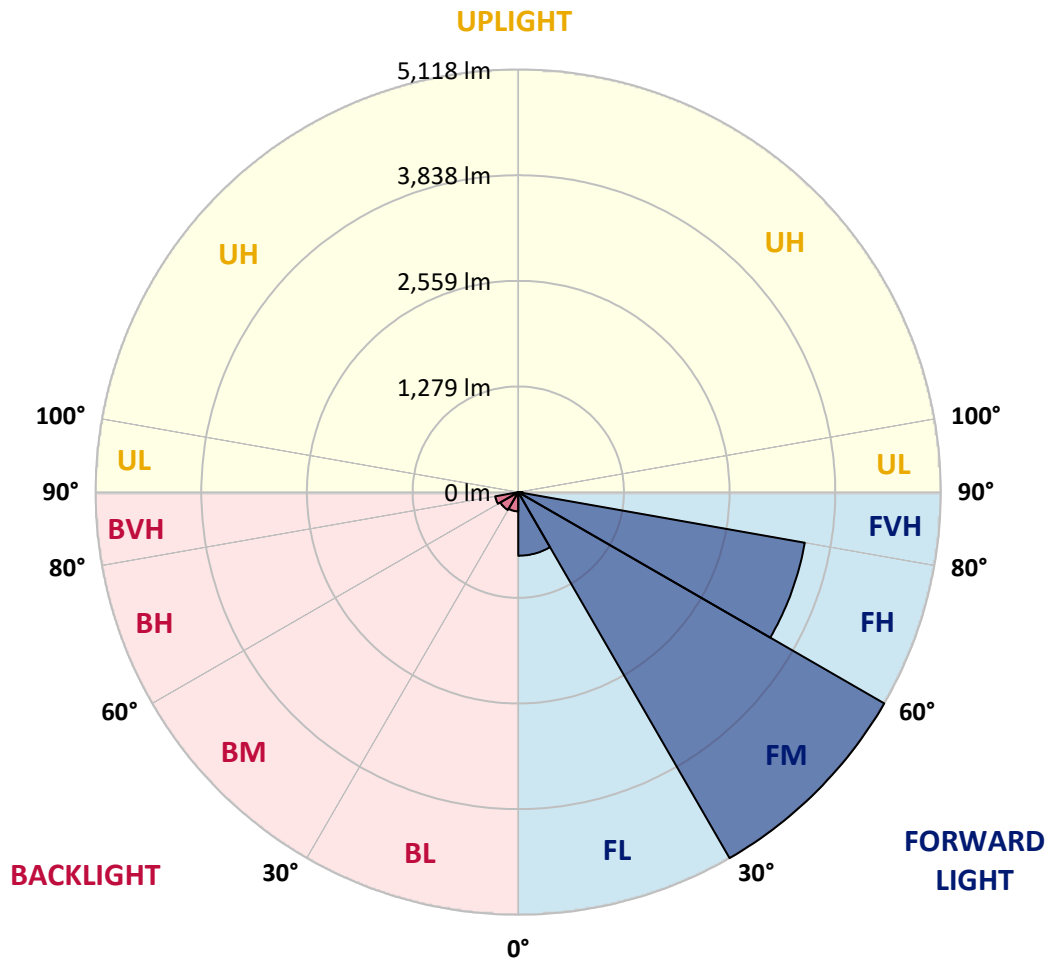


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.1	7.5			
FM (30°-60°)	5117.6	50.0			
FH (60°-80°)	3523.5	34.4			G2/5000
FVH (80°-90°)	55.9	0.5			G1/100
BL (0°-30°)	232.4	2.3	B1/500		
BM (30°-60°)	249.8	2.4	B1/1000		
BH (60°-80°)	283.3	2.8	B1/500		G1/500
BVH (80°-90°)	3.0	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°	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4
2.5°	1442.3	1440.7	1434.4	1423.3	1409.1	1404.4	1383.9	1355.5	1339.7	1322.4	1314.5
5°	1541.7	1533.8	1552.7	1544.8	1548.0	1510.1	1484.9	1464.4	1404.4	1380.7	1342.9
7.5°	1563.8	1571.7	1570.1	1582.7	1595.3	1609.5	1592.2	1562.2	1502.2	1467.5	1426.5
10°	1563.8	1560.6	1573.3	1590.6	1626.9	1658.5	1705.8	1666.4	1620.6	1579.6	1505.4
12.5°	1535.4	1530.6	1543.3	1579.6	1644.3	1709.0	1761.0	1798.9	1734.2	1701.1	1604.8
15°	1448.6	1443.9	1495.9	1560.6	1645.8	1751.6	1860.4	1922.0	1877.8	1825.7	1718.4
17.5°	1341.3	1347.6	1402.8	1510.1	1645.8	1772.1	1910.9	2045.1	2038.8	1972.5	1860.4
20°	1305.0	1309.7	1365.0	1442.3	1596.9	1786.3	1989.8	2179.2	2217.1	2138.2	1991.4
22.5°	1374.4	1369.7	1374.4	1421.8	1563.8	1773.7	2041.9	2332.3	2400.1	2338.6	2163.4
25°	1611.1	1608.0	1568.5	1495.9	1544.8	1745.3	2068.7	2433.3	2589.5	2532.7	2302.3
27.5°	1958.3	1945.7	1884.1	1732.6	1633.2	1762.6	2112.9	2531.1	2755.2	2690.5	2426.9
30°	2330.7	2300.7	2220.2	2030.9	1862.0	1827.3	2138.2	2603.7	2939.8	2857.7	2535.8
32.5°	2587.9	2627.3	2602.1	2409.6	2150.8	1977.2	2179.2	2695.2	3110.2	3056.6	2722.0
35°	2985.5	3031.3	2925.6	2755.2	2494.8	2215.5	2266.0	2769.4	3372.2	3282.2	2895.6
37.5°	3487.3	3522.1	3446.3	3122.8	2848.3	2509.0	2444.3	2924.0	3597.8	3555.2	3118.1
40°	3739.8	3907.1	3799.8	3507.9	3212.8	2919.3	2739.4	3105.5	3990.7	3956.0	3425.8
42.5°	4088.6	4172.2	4117.0	3900.8	3593.1	3358.0	3103.9	3458.9	4467.3	4467.3	3842.4
45°	4457.8	4461.0	4457.8	4281.1	4008.1	3886.6	3596.2	3902.4	4980.1	5036.9	4341.0
47.5°	4760.8	4855.5	4847.6	4741.8	4530.4	4484.6	4088.6	4407.3	5623.9	5723.3	4827.1
50°	4917.0	5022.7	5054.3	5109.5	5100.0	5196.3	4626.6	4992.7	6179.4	6424.0	5451.9
52.5°	4874.4	4882.3	5076.4	5294.1	5641.3	5911.1	5275.2	5657.1	6829.5	7070.9	5934.8
55°	4525.7	4495.7	4894.9	5144.2	5862.2	6348.2	6173.1	6485.5	7336.0	7703.7	6433.4
57.5°	3760.3	3768.2	4137.5	4644.0	5698.1	6521.8	7132.5	7568.0	8046.1	8417.0	7134.1
60°	2595.8	2586.3	2999.7	3585.2	4734.0	6198.3	7684.8	8970.8	8996.1	9521.6	8391.7
62.5°	1459.6	1462.8	1776.8	2277.0	3312.2	5065.3	7658.0	10460.5	10353.2	10813.9	9821.4
65°	826.9	847.4	1063.6	1349.2	1983.5	3400.6	6586.5	11053.8	11399.4	11809.6	10689.3
66°	699.0	713.2	897.9	1114.1	1582.7	2758.3	5928.5	10938.6	11727.6	12040.0	10671.9
67.5°	541.2	560.2	714.8	883.7	1161.4	1909.4	4771.8	10365.8	11787.5	11970.6	10370.5
70°	370.8	383.5	501.8	670.6	793.7	976.8	2853.0	8570.0	10695.6	10850.2	9013.4
72.5°	260.4	266.7	351.9	508.1	610.7	558.6	1415.5	6097.3	8185.0	8486.4	7011.0
75°	187.8	194.1	241.4	364.5	476.6	366.1	648.6	3894.5	5019.6	5256.3	4222.7
77.5°	135.7	143.6	164.1	235.1	345.6	257.2	318.8	2034.0	2367.0	2325.9	1816.3
80°	82.1	89.9	121.5	151.5	252.5	181.5	175.2	849.0	839.5	796.9	571.2
82.5°	37.9	44.2	64.7	102.6	176.7	126.2	83.6	303.0	265.1	243.0	161.0
85°	11.0	14.2	37.9	77.3	89.9	61.5	50.5	104.1	108.9	93.1	53.7
87.5°	0.0	1.6	17.4	18.9	26.8	20.5	18.9	26.8	50.5	41.0	17.4
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°	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4	1273.4
2.5°	1286.1	1275.0	1248.2	1207.2	1170.9	1151.9	1125.1	1101.4	1088.8	1087.2	1085.7
5°	1317.6	1287.6	1222.9	1148.8	1093.5	1033.6	992.6	962.6	934.2	907.3	923.1
7.5°	1360.2	1312.9	1207.2	1110.9	991.0	913.7	841.1	798.5	773.2	749.5	746.4
10°	1426.5	1366.5	1196.1	1022.5	885.2	771.6	697.5	635.9	601.2	560.2	576.0
12.5°	1516.4	1409.1	1155.1	942.1	765.3	645.4	539.7	440.3	385.0	342.4	344.0
15°	1606.4	1465.9	1117.2	844.2	656.4	498.6	344.0	276.1	260.4	250.9	254.1
17.5°	1694.8	1511.7	1058.8	744.8	531.8	317.2	250.9	236.7	228.8	219.3	219.3
20°	1802.1	1541.7	986.2	653.3	366.1	235.1	214.6	205.1	192.5	179.9	181.5
22.5°	1906.2	1566.9	902.6	536.5	246.2	203.6	179.9	167.3	156.2	143.6	143.6
25°	2010.4	1574.8	793.7	385.0	198.8	162.5	140.4	123.1	112.0	101.0	102.6
27.5°	2081.4	1525.9	691.2	246.2	159.4	123.1	97.8	83.6	74.2	63.1	63.1
30°	2122.4	1436.0	580.7	173.6	119.9	83.6	58.4	44.2	34.7	26.8	25.2
32.5°	2163.4	1363.4	456.0	132.6	78.9	44.2	22.1	7.9	0.0	0.0	0.0
35°	2245.5	1281.3	306.1	74.2	26.8	1.6	0.0	0.0	0.0	0.0	0.0
37.5°	2297.5	1167.7	140.4	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2428.5	1110.9	34.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2641.5	1071.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2875.1	1055.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3185.9	1098.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3514.2	1213.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3874.0	1322.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4188.0	1453.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4765.5	1762.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5802.2	2370.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6970.0	2821.4	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7397.6	2810.4	30.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7321.8	2655.7	30.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6928.9	2359.1	26.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5950.6	1948.8	26.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4536.7	1518.0	25.2	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2737.8	807.9	20.5	7.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1090.4	284.0	15.8	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	295.1	85.2	9.5	6.3	4.7	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	77.3	31.6	7.9	6.3	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	30.0	12.6	6.3	4.7	4.7	3.2	1.6	0.0	0.0	0.0	0.0
87.5°	9.5	4.7	4.7	3.2	3.2	1.6	1.6	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)