

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: P481589

Luminaire Tested: **IFLD-S-SA3B-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481589  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

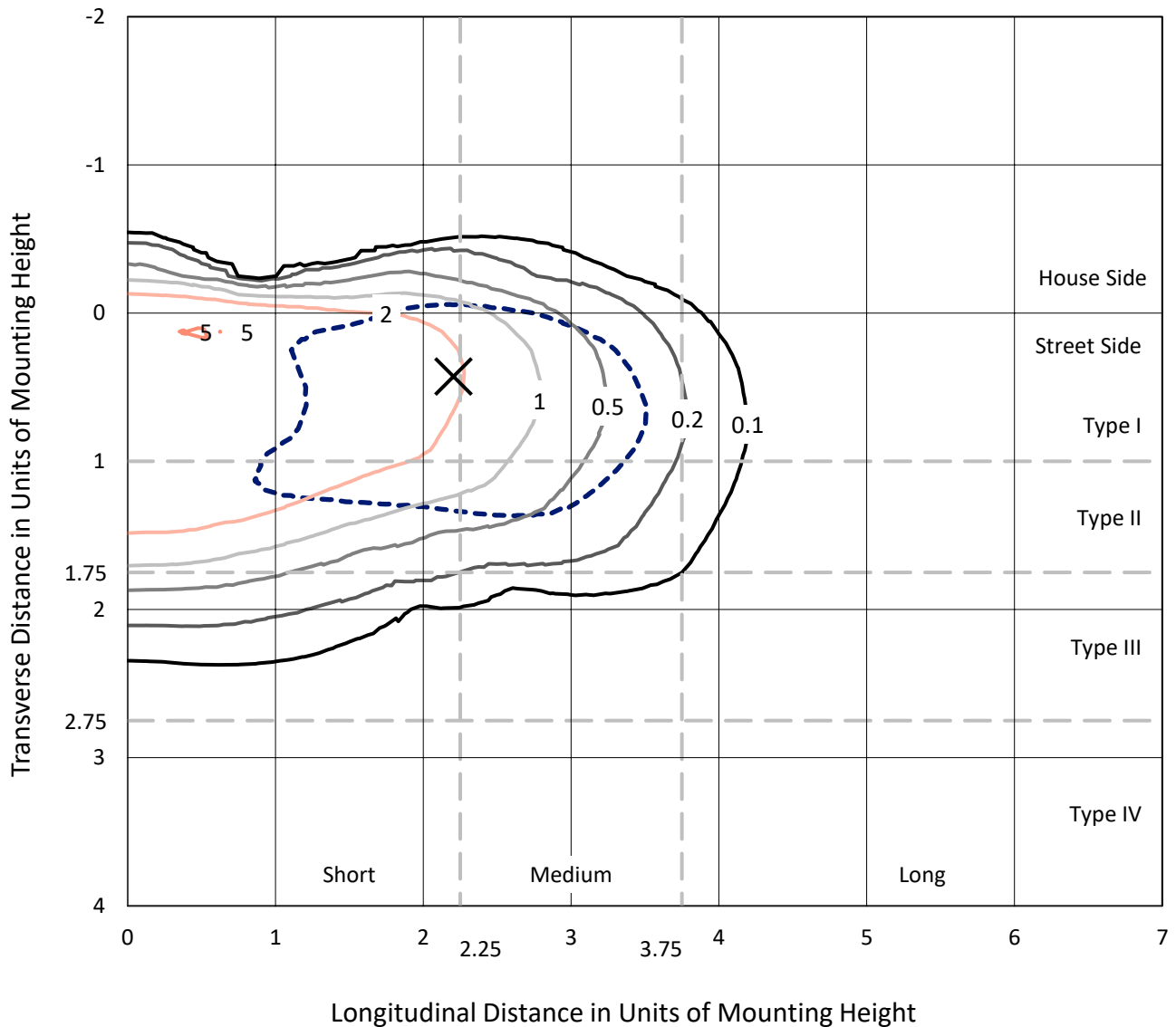
Lumens per Lamp: N/A  
Luminaire Lumens: 11158.3 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

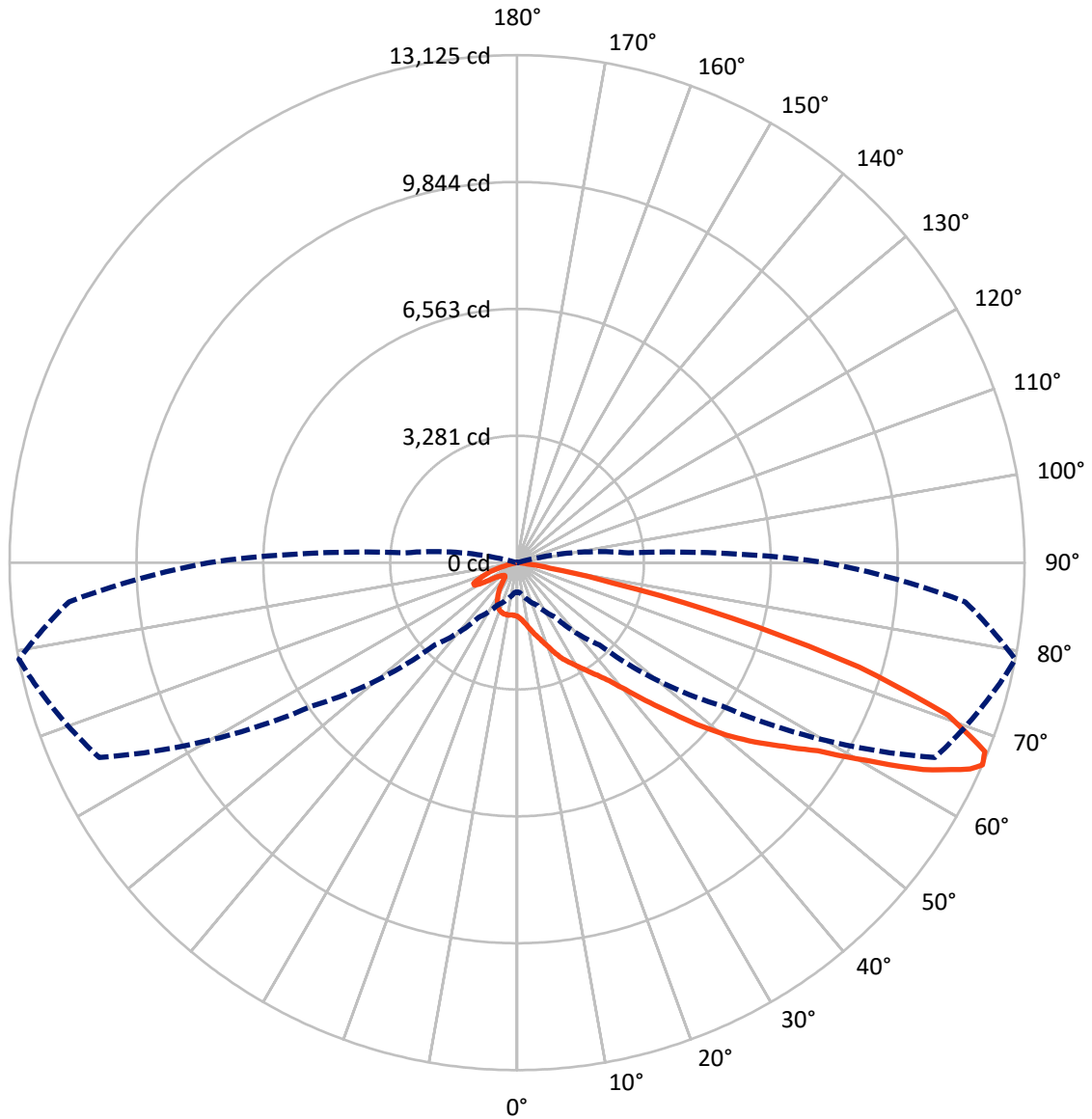
× Max cd  
 - - - 1/2 Max cd



Based on 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	837.8	0.0	837.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	10320.4	0.0	10320.4
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	11158.3	0.0	11158.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	1.2
10°-20°	361.3	3.2
20°-30°	600.2	5.4
30°-40°	1031.0	9.2
40°-50°	1867.8	16.7
50°-60°	2952.4	26.5
60°-70°	3004.3	26.9
70°-80°	1145.7	10.3
80°-90°	64.2	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°	11158.3	100.0
0°-180°	11158.3	100.0



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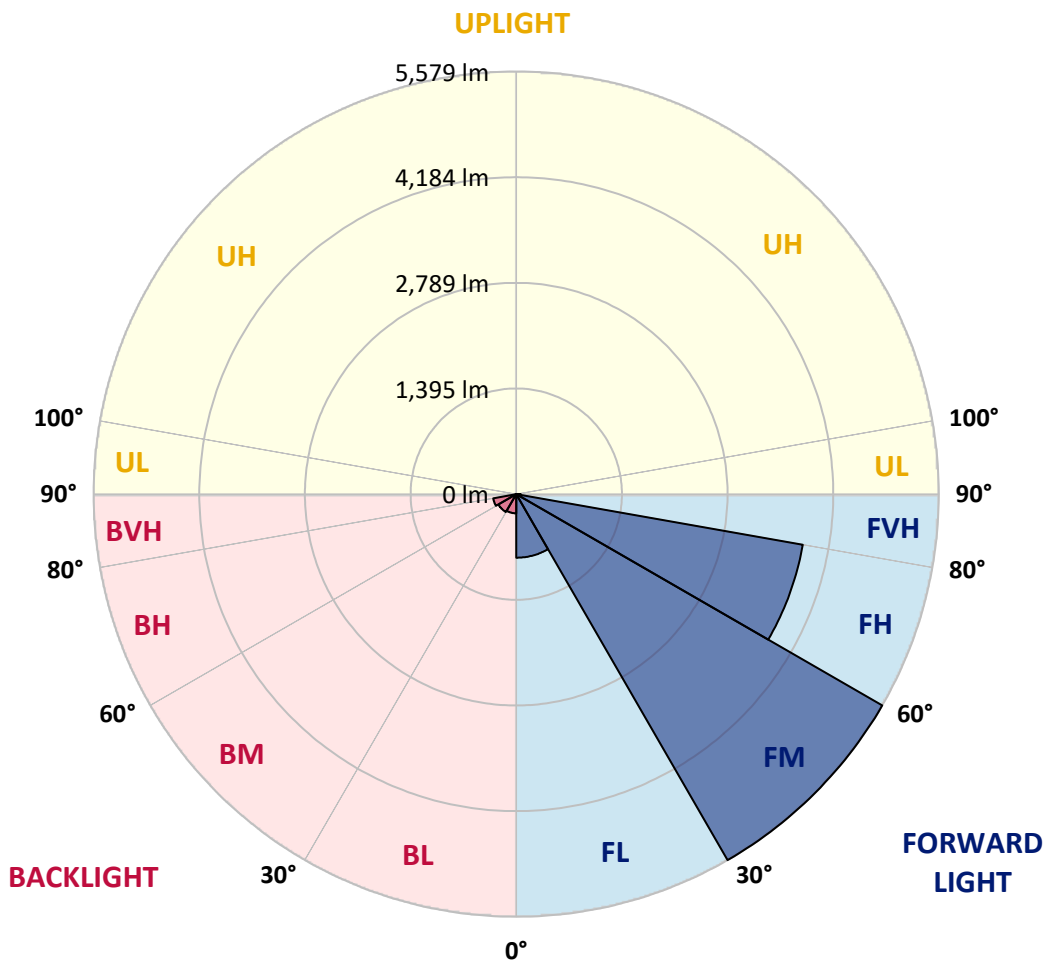
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	839.5	7.5			
FM (30°-60°)	5578.9	50.0			
FH (60°-80°)	3841.1	34.4			G2/5000
FVH (80°-90°)	60.9	0.5			G1/100
BL (0°-30°)	253.4	2.3	B1/500		
BM (30°-60°)	272.3	2.4	B1/1000		
BH (60°-80°)	308.9	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°	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2
2.5°	1572.3	1570.6	1563.7	1551.6	1536.2	1531.0	1508.6	1477.7	1460.5	1441.6	1433.0
5°	1680.7	1672.1	1692.7	1684.1	1687.5	1646.3	1618.7	1596.4	1531.0	1505.2	1463.9
7.5°	1704.7	1713.3	1711.6	1725.4	1739.2	1754.6	1735.7	1703.0	1637.7	1599.8	1555.1
10°	1704.7	1701.3	1715.1	1734.0	1773.6	1808.0	1859.6	1816.6	1766.7	1721.9	1641.1
12.5°	1673.8	1668.6	1682.4	1721.9	1792.5	1863.0	1919.8	1961.1	1890.5	1854.4	1749.5
15°	1579.2	1574.0	1630.8	1701.3	1794.2	1909.5	2028.2	2095.2	2047.1	1990.3	1873.3
17.5°	1462.2	1469.1	1529.3	1646.3	1794.2	1931.8	2083.2	2229.4	2222.5	2150.3	2028.2
20°	1422.6	1427.8	1488.0	1572.3	1740.9	1947.3	2169.2	2375.6	2416.9	2330.9	2170.9
22.5°	1498.3	1493.2	1498.3	1549.9	1704.7	1933.5	2226.0	2542.5	2616.5	2549.4	2358.4
25°	1756.4	1752.9	1709.9	1630.8	1684.1	1902.6	2255.2	2652.6	2822.9	2761.0	2509.8
27.5°	2134.8	2121.0	2054.0	1888.8	1780.4	1921.5	2303.4	2759.2	3003.5	2933.0	2645.7
30°	2540.8	2508.1	2420.4	2213.9	2029.9	1992.0	2330.9	2838.4	3204.8	3115.3	2764.4
32.5°	2821.2	2864.2	2836.7	2626.8	2344.7	2155.4	2375.6	2938.2	3390.6	3332.1	2967.4
35°	3254.7	3304.6	3189.3	3003.5	2719.7	2415.2	2470.2	3019.0	3676.1	3578.1	3156.6
37.5°	3801.7	3839.6	3757.0	3404.3	3105.0	2735.2	2664.6	3187.6	3922.1	3875.7	3399.2
40°	4076.9	4259.3	4142.3	3824.1	3502.4	3182.4	2986.3	3385.4	4350.5	4312.6	3734.6
42.5°	4457.1	4548.3	4488.1	4252.4	3917.0	3660.6	3383.7	3770.7	4870.0	4870.0	4188.8
45°	4859.6	4863.1	4859.6	4667.0	4369.4	4236.9	3920.4	4254.1	5429.0	5491.0	4732.4
47.5°	5189.9	5293.1	5284.5	5169.3	4938.8	4888.9	4457.1	4804.6	6130.9	6239.3	5262.2
50°	5360.2	5475.5	5509.9	5570.1	5559.8	5664.7	5043.7	5442.8	6736.4	7003.1	5943.4
52.5°	5313.8	5322.4	5534.0	5771.4	6149.8	6444.0	5750.7	6167.0	7445.2	7708.3	6469.8
55°	4933.6	4900.9	5336.2	5607.9	6390.7	6920.5	6729.5	7070.1	7997.3	8398.2	7013.4
57.5°	4099.3	4107.9	4510.4	5062.6	6211.7	7109.7	7775.4	8250.2	8771.4	9175.7	7777.2
60°	2829.8	2819.5	3270.2	3908.4	5160.7	6757.1	8377.5	9779.5	9807.0	10379.9	9148.2
62.5°	1591.2	1594.7	1937.0	2482.3	3610.8	5521.9	8348.3	11403.4	11286.4	11788.7	10706.7
65°	901.4	923.8	1159.4	1470.8	2162.3	3707.1	7180.2	12050.2	12426.9	12874.2	11652.8
66°	762.1	777.5	978.8	1214.5	1725.4	3007.0	6462.9	11924.6	12784.7	13125.3	11633.9
67.5°	590.0	610.7	779.3	963.3	1266.1	2081.5	5202.0	11300.2	12850.1	13049.7	11305.3
70°	404.3	418.0	547.0	731.1	865.3	1064.8	3110.2	9342.6	11659.7	11828.3	9825.9
72.5°	283.8	290.7	383.6	553.9	665.7	609.0	1543.0	6647.0	8922.8	9251.4	7643.0
75°	204.7	211.6	263.2	397.4	519.5	399.1	707.0	4245.5	5472.0	5730.1	4603.3
77.5°	147.9	156.5	178.9	256.3	376.7	280.4	347.5	2217.4	2580.3	2535.6	1980.0
80°	89.5	98.1	132.5	165.1	275.2	197.8	190.9	925.5	915.2	868.7	622.7
82.5°	41.3	48.2	70.5	111.8	192.7	137.6	91.2	330.3	289.0	264.9	175.5
85°	12.0	15.5	41.3	84.3	98.1	67.1	55.0	113.5	118.7	101.5	58.5
87.5°	0.0	1.7	18.9	20.6	29.2	22.4	20.6	29.2	55.0	44.7	18.9
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°	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2
2.5°	1402.0	1389.9	1360.7	1316.0	1276.4	1255.8	1226.5	1200.7	1187.0	1185.2	1183.5
5°	1436.4	1403.7	1333.2	1252.3	1192.1	1126.8	1082.0	1049.3	1018.4	989.1	1006.3
7.5°	1482.8	1431.2	1316.0	1211.0	1080.3	996.0	916.9	870.4	842.9	817.1	813.7
10°	1555.1	1489.7	1303.9	1114.7	965.0	841.2	760.3	693.3	655.4	610.7	627.9
12.5°	1653.1	1536.2	1259.2	1027.0	834.3	703.6	588.3	479.9	419.7	373.3	375.0
15°	1751.2	1598.1	1217.9	920.3	715.6	543.6	375.0	301.0	283.8	273.5	277.0
17.5°	1847.5	1648.0	1154.3	811.9	579.7	345.8	273.5	258.0	249.4	239.1	239.1
20°	1964.5	1680.7	1075.1	712.2	399.1	256.3	234.0	223.6	209.9	196.1	197.8
22.5°	2078.0	1708.2	984.0	584.9	268.4	221.9	196.1	182.3	170.3	156.5	156.5
25°	2191.6	1716.8	865.3	419.7	216.7	177.2	153.1	134.2	122.1	110.1	111.8
27.5°	2269.0	1663.5	753.5	268.4	173.7	134.2	106.7	91.2	80.9	68.8	68.8
30°	2313.7	1565.4	633.0	189.2	130.7	91.2	63.6	48.2	37.8	29.2	27.5
32.5°	2358.4	1486.3	497.1	144.5	86.0	48.2	24.1	8.6	0.0	0.0	0.0
35°	2447.9	1396.8	333.7	80.9	29.2	1.7	0.0	0.0	0.0	0.0	0.0
37.5°	2504.7	1273.0	153.1	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2647.4	1211.0	37.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2879.7	1168.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3134.3	1150.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3473.1	1197.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3831.0	1322.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4223.2	1441.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4565.5	1584.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5195.1	1921.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6325.3	2583.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7598.3	3075.8	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8064.4	3063.7	32.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7981.9	2895.1	32.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7553.5	2571.7	29.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6487.0	2124.5	29.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4945.7	1654.9	27.5	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2984.6	880.8	22.4	8.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1188.7	309.6	17.2	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	321.7	92.9	10.3	6.9	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	84.3	34.4	8.6	6.9	3.4	1.7	0.0	0.0	0.0	0.0	0.0
85°	32.7	13.8	6.9	5.2	5.2	3.4	1.7	0.0	0.0	0.0	0.0
87.5°	10.3	5.2	5.2	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)