

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: P481662

Luminaire Tested: **IFLD-S-SA2B-740-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481662  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-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**

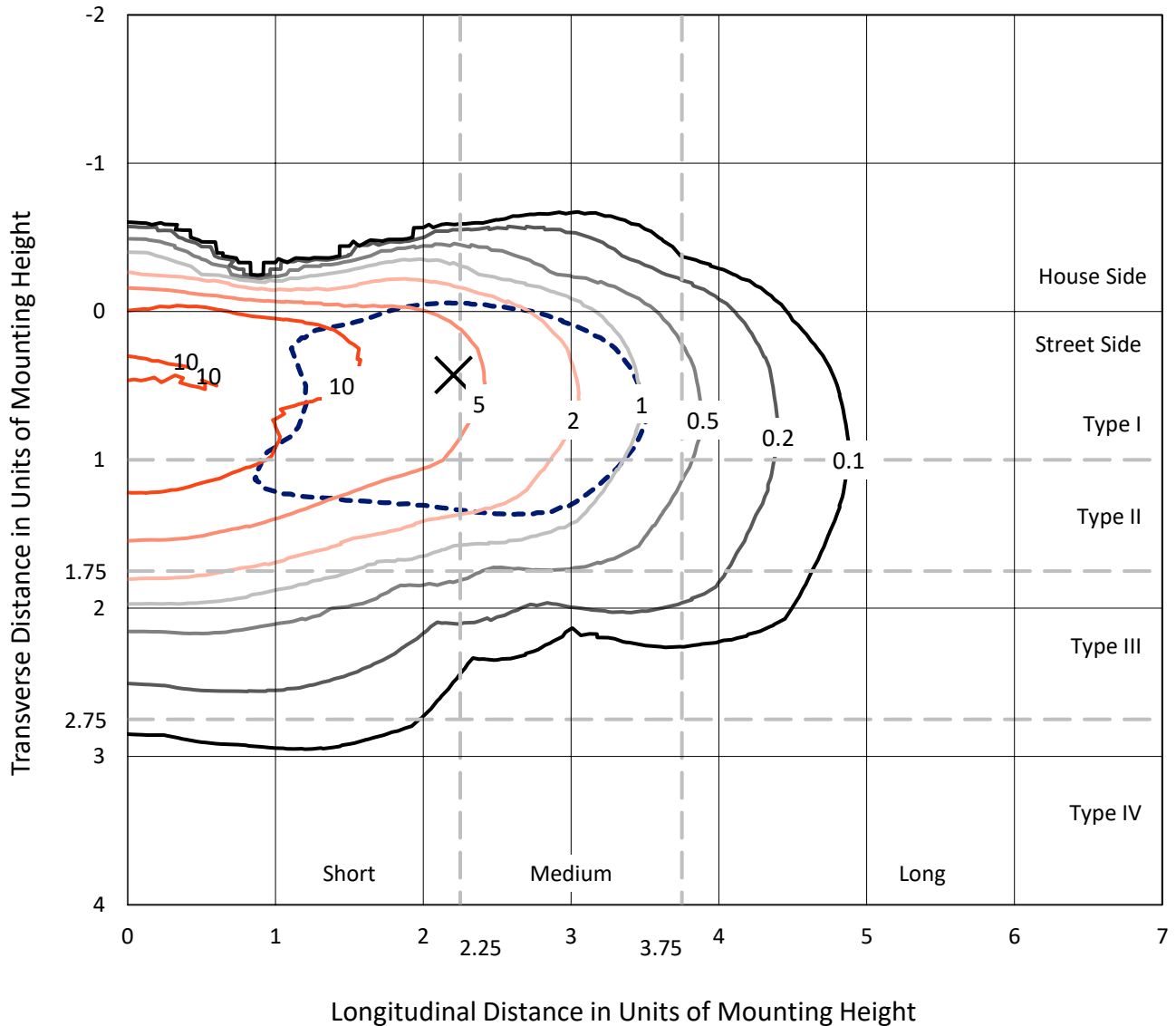
Lumens per Lamp: N/A  
Luminaire Lumens: 8222.4 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

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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 CATALOG NUMBER: IFLD-S-SA2B-740-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

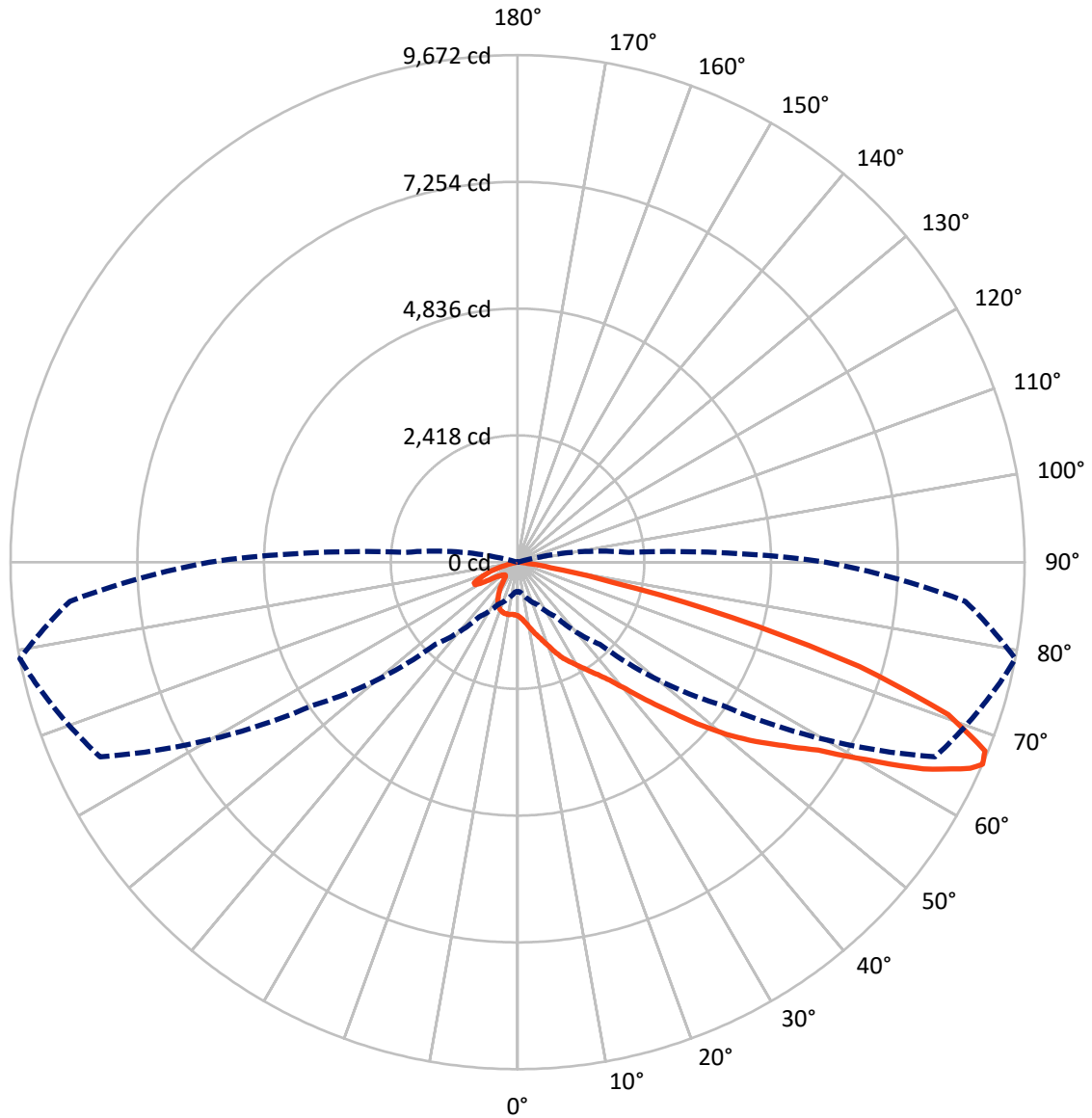
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P481662  
CATALOG NUMBER: IFLD-S-SA2B-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	617.4	0.0	617.4
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	7605.0	0.0	7605.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	8222.4	0.0	8222.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	1.2
10°-20°	266.3	3.2
20°-30°	442.3	5.4
30°-40°	759.7	9.2
40°-50°	1376.3	16.7
50°-60°	2175.6	26.5
60°-70°	2213.8	26.9
70°-80°	844.2	10.3
80°-90°	47.3	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°	8222.4	100.0
0°-180°	8222.4	100.0

**Coefficient of Utilization**

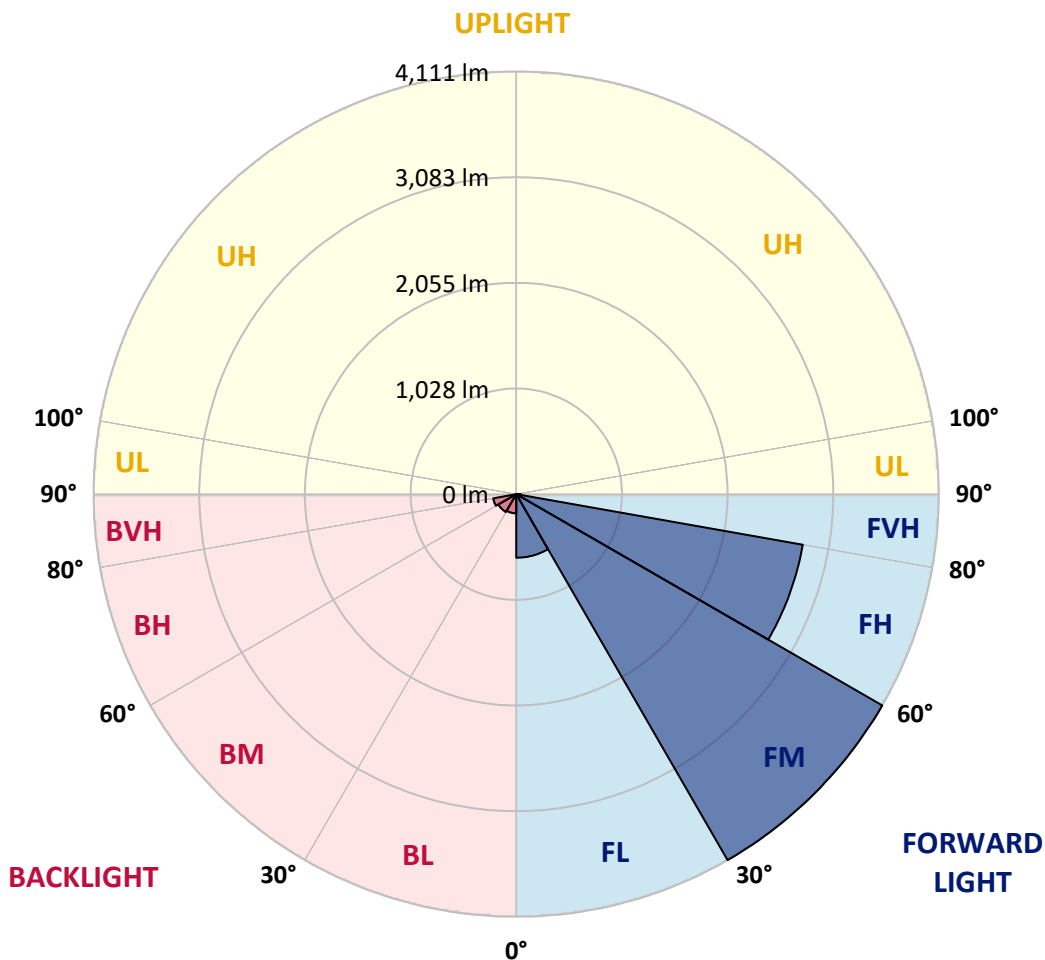


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 CATALOG NUMBER: IFLD-S-SA2B-740-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.6	7.5			
FM (30°-60°)	4111.0	50.0			
FH (60°-80°)	2830.5	34.4			G2/5000
FVH (80°-90°)	44.9	0.5			G1/100
BL (0°-30°)	186.7	2.3	B1/500		
BM (30°-60°)	200.7	2.4	B0/220		
BH (60°-80°)	227.6	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





REPORT NUMBER: P481662

CATALOG NUMBER: IFLD-S-SA2B-740-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0
2.5°	1158.6	1157.3	1152.3	1143.4	1132.0	1128.2	1111.7	1088.9	1076.2	1062.3	1055.9
5°	1238.5	1232.1	1247.3	1241.0	1243.5	1213.1	1192.8	1176.3	1128.2	1109.2	1078.7
7.5°	1256.2	1262.5	1261.3	1271.4	1281.6	1293.0	1279.0	1254.9	1206.8	1178.9	1145.9
10°	1256.2	1253.7	1263.8	1277.8	1306.9	1332.3	1370.3	1338.6	1301.8	1268.9	1209.3
12.5°	1233.4	1229.6	1239.7	1268.9	1320.9	1372.8	1414.7	1445.1	1393.1	1366.5	1289.2
15°	1163.7	1159.9	1201.7	1253.7	1322.1	1407.0	1494.5	1543.9	1508.5	1466.6	1380.4
17.5°	1077.5	1082.5	1126.9	1213.1	1322.1	1423.5	1535.1	1642.8	1637.8	1584.5	1494.5
20°	1048.3	1052.1	1096.5	1158.6	1282.8	1434.9	1598.5	1750.6	1781.0	1717.6	1599.7
22.5°	1104.1	1100.3	1104.1	1142.1	1256.2	1424.8	1640.3	1873.5	1928.0	1878.6	1737.9
25°	1294.2	1291.7	1260.0	1201.7	1241.0	1402.0	1661.8	1954.7	2080.1	2034.5	1849.4
27.5°	1573.1	1563.0	1513.5	1391.8	1312.0	1415.9	1697.3	2033.2	2213.2	2161.3	1949.6
30°	1872.3	1848.2	1783.5	1631.4	1495.8	1467.9	1717.6	2091.6	2361.6	2295.6	2037.1
32.5°	2078.9	2110.6	2090.3	1935.6	1727.8	1588.3	1750.6	2165.1	2498.5	2455.4	2186.6
35°	2398.3	2435.1	2350.2	2213.2	2004.1	1779.7	1820.3	2224.7	2708.9	2636.6	2326.1
37.5°	2801.4	2829.3	2768.5	2508.6	2288.0	2015.5	1963.5	2348.9	2890.2	2855.9	2504.8
40°	3004.2	3138.6	3052.4	2817.9	2580.9	2345.1	2200.6	2494.7	3205.8	3177.9	2752.0
42.5°	3284.4	3351.6	3307.2	3133.5	2886.3	2697.5	2493.4	2778.6	3588.6	3588.6	3086.6
45°	3581.0	3583.5	3581.0	3439.0	3219.7	3122.1	2888.9	3134.8	4000.6	4046.2	3487.2
47.5°	3824.4	3900.4	3894.1	3809.2	3639.3	3602.5	3284.4	3540.4	4517.8	4597.6	3877.6
50°	3949.9	4034.8	4060.2	4104.5	4096.9	4174.2	3716.6	4010.7	4964.0	5160.4	4379.6
52.5°	3915.6	3922.0	4077.9	4252.8	4531.7	4748.5	4237.6	4544.4	5486.2	5680.2	4767.5
55°	3635.5	3611.4	3932.1	4132.4	4709.2	5099.6	4958.9	5209.9	5893.1	6188.5	5168.0
57.5°	3020.7	3027.1	3323.7	3730.6	4577.3	5239.0	5729.6	6079.5	6463.5	6761.4	5730.9
60°	2085.2	2077.6	2409.7	2880.0	3802.8	4979.2	6173.3	7206.4	7226.6	7648.8	6741.2
62.5°	1172.5	1175.1	1427.3	1829.2	2660.7	4069.0	6151.7	8403.0	8316.8	8686.9	7889.6
65°	664.2	680.7	854.4	1083.8	1593.4	2731.7	5291.0	8879.6	9157.2	9486.8	8586.8
66°	561.6	573.0	721.3	894.9	1271.4	2215.8	4762.4	8787.1	9420.9	9671.9	8572.9
67.5°	434.8	450.0	574.2	709.9	933.0	1533.8	3833.3	8326.9	9469.1	9616.1	8330.7
70°	297.9	308.0	403.1	538.7	637.6	784.7	2291.8	6884.4	8591.9	8716.1	7240.6
72.5°	209.2	214.2	282.7	408.2	490.6	448.7	1137.0	4898.0	6575.1	6817.2	5632.0
75°	150.8	155.9	193.9	292.8	382.8	294.1	521.0	3128.5	4032.3	4222.4	3392.1
77.5°	109.0	115.4	131.8	188.9	277.6	206.6	256.1	1634.0	1901.4	1868.5	1459.0
80°	65.9	72.3	97.6	121.7	202.8	145.8	140.7	682.0	674.4	640.1	458.9
82.5°	30.4	35.5	52.0	82.4	142.0	101.4	67.2	243.4	213.0	195.2	129.3
85°	8.9	11.4	30.4	62.1	72.3	49.4	40.6	83.7	87.5	74.8	43.1
87.5°	0.0	1.3	13.9	15.2	21.5	16.5	15.2	21.5	40.6	33.0	13.9
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°	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0	1023.0
2.5°	1033.1	1024.2	1002.7	969.7	940.6	925.4	903.8	884.8	874.7	873.4	872.1
5°	1058.5	1034.4	982.4	922.8	878.5	830.3	797.3	773.2	750.4	728.9	741.6
7.5°	1092.7	1054.7	969.7	892.4	796.1	733.9	675.6	641.4	621.1	602.1	599.6
10°	1145.9	1097.8	960.8	821.4	711.1	619.9	560.3	510.8	483.0	450.0	462.7
12.5°	1218.2	1132.0	927.9	756.8	614.8	518.5	433.5	353.7	309.3	275.1	276.3
15°	1290.4	1177.6	897.5	678.2	527.3	400.6	276.3	221.8	209.2	201.6	204.1
17.5°	1361.4	1214.4	850.6	598.3	427.2	254.8	201.6	190.1	183.8	176.2	176.2
20°	1447.6	1238.5	792.3	524.8	294.1	188.9	172.4	164.8	154.6	144.5	145.8
22.5°	1531.3	1258.7	725.1	431.0	197.7	163.5	144.5	134.4	125.5	115.4	115.4
25°	1614.9	1265.1	637.6	309.3	159.7	130.6	112.8	98.9	90.0	81.1	82.4
27.5°	1672.0	1225.8	555.2	197.7	128.0	98.9	78.6	67.2	59.6	50.7	50.7
30°	1704.9	1153.5	466.5	139.4	96.3	67.2	46.9	35.5	27.9	21.5	20.3
32.5°	1737.9	1095.2	366.3	106.5	63.4	35.5	17.7	6.3	0.0	0.0	0.0
35°	1803.8	1029.3	245.9	59.6	21.5	1.3	0.0	0.0	0.0	0.0	0.0
37.5°	1845.6	938.0	112.8	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1950.9	892.4	27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2122.0	860.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2309.6	848.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2559.3	882.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2823.0	974.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3112.0	1062.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3364.2	1167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3828.2	1415.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4661.0	1904.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5599.0	2266.5	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5942.6	2257.6	24.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5881.7	2133.4	24.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5566.1	1895.1	21.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4780.2	1565.5	21.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3644.4	1219.4	20.3	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2199.3	649.0	16.5	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	875.9	228.2	12.7	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	237.0	68.5	7.6	5.1	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	62.1	25.4	6.3	5.1	2.5	1.3	0.0	0.0	0.0	0.0	0.0
85°	24.1	10.1	5.1	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0
87.5°	7.6	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)