

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: P481921

Luminaire Tested: **IFLD-M-SA4B-722-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481921
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

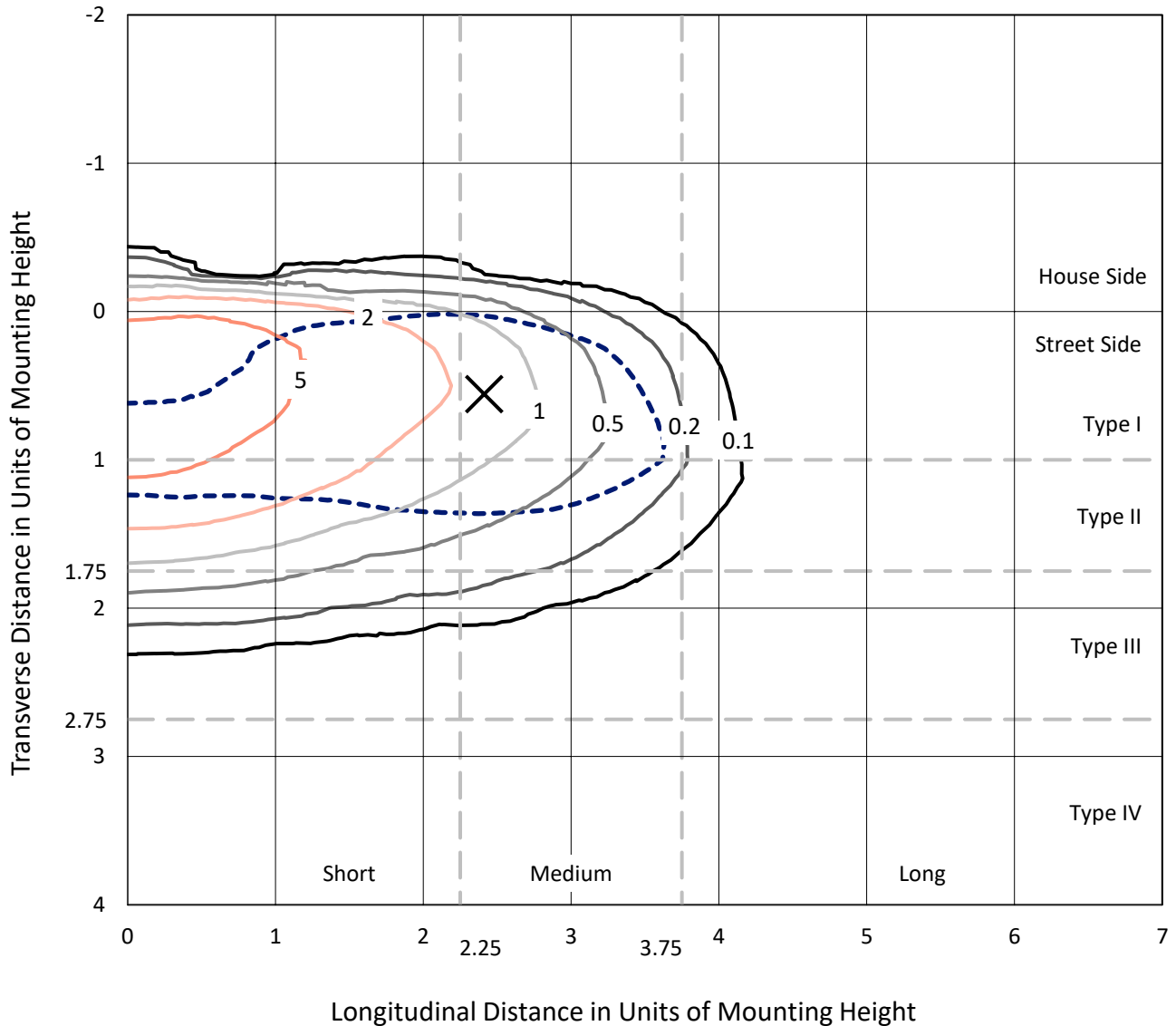
Lumens per Lamp: N/A
Luminaire Lumens: 13226.8 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1
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

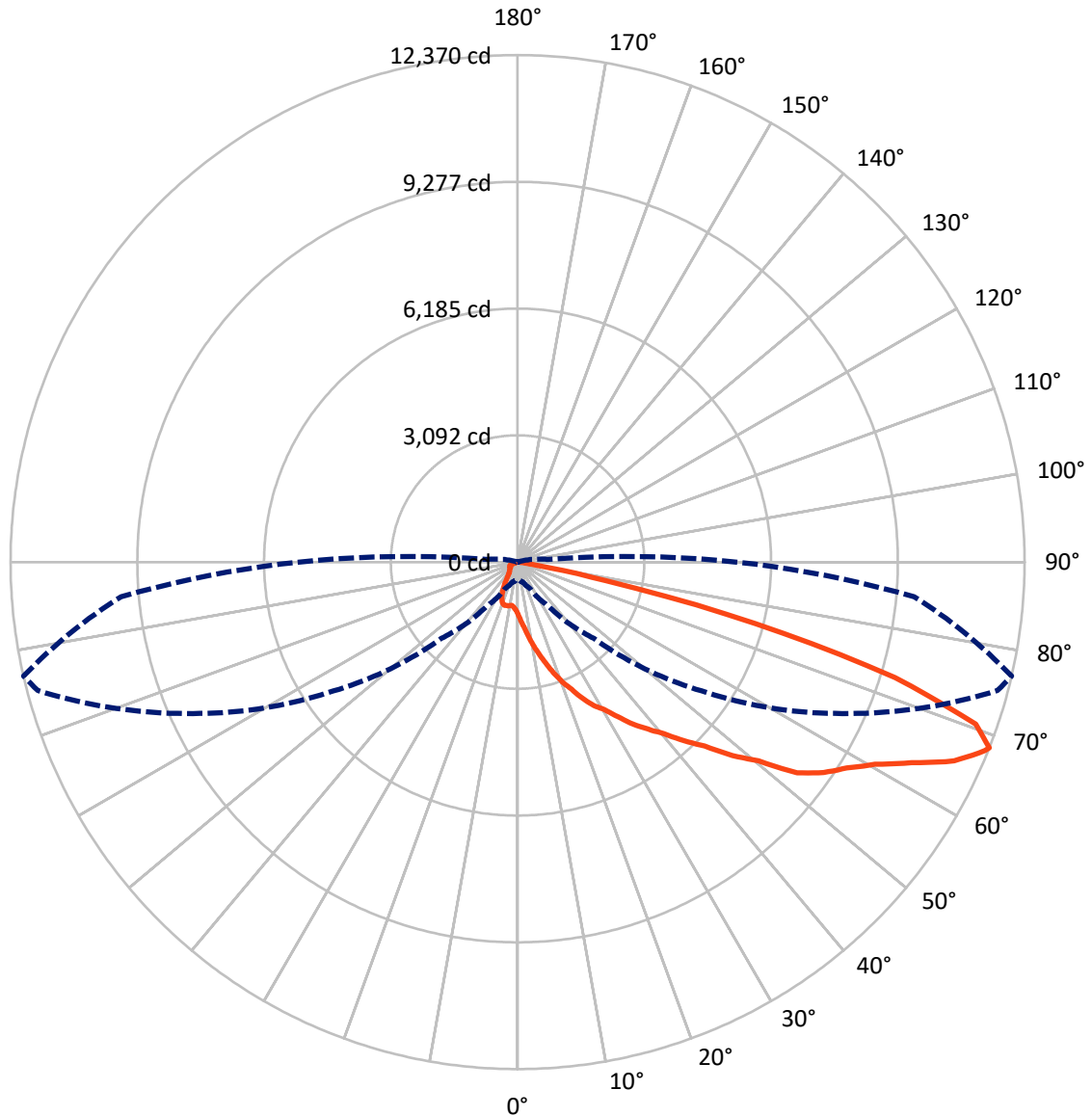
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.8	0.0	599.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	12627.0	0.0	12627.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	13226.8	0.0	13226.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	1.1
10°-20°	545.7	4.1
20°-30°	1057.6	8.0
30°-40°	1843.7	13.9
40°-50°	2700.2	20.4
50°-60°	3172.4	24.0
60°-70°	2678.8	20.3
70°-80°	1038.3	7.9
80°-90°	42.2	0.3
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°	13226.8	100.0
0°-180°	13226.8	100.0

Coefficient of Utilization

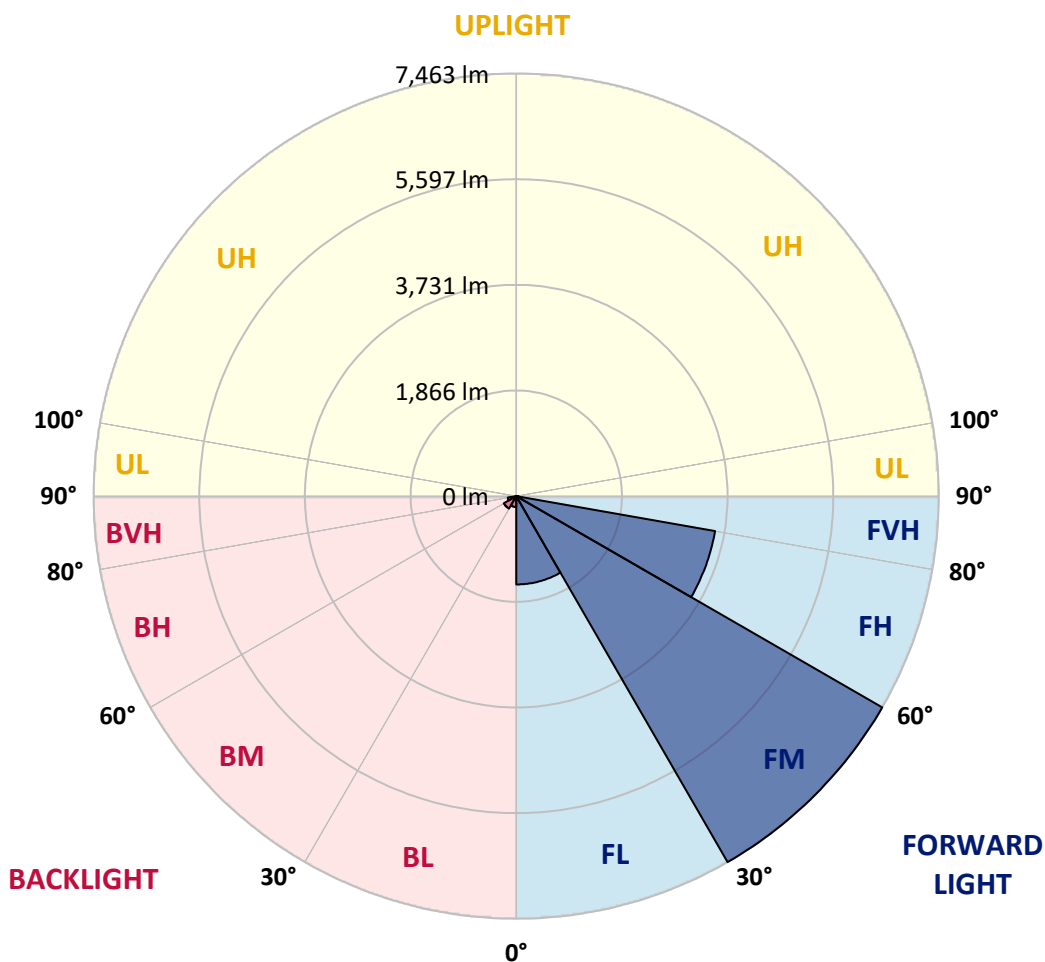


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.6	11.8			
FM (30°-60°)	7462.8	56.4			
FH (60°-80°)	3565.7	27.0			G2/5000
FVH (80°-90°)	39.0	0.3			G1/100
BL (0°-30°)	191.6	1.4	B1/500		
BM (30°-60°)	253.5	1.9	B1/1000		
BH (60°-80°)	151.4	1.1	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5
2.5°	1924.3	1887.9	1849.6	1838.7	1767.6	1687.4	1612.7	1539.8	1417.7	1419.6	1335.7
5°	2480.1	2434.6	2403.6	2396.3	2285.1	2146.6	2033.7	1827.7	1625.5	1579.9	1426.8
7.5°	2937.5	2922.9	2877.4	2839.1	2757.1	2587.6	2454.6	2159.4	1851.4	1800.4	1538.0
10°	3214.5	3236.4	3256.4	3207.2	3143.4	3021.3	2839.1	2520.2	2108.4	2044.6	1682.0
12.5°	3509.7	3473.3	3486.0	3526.1	3442.3	3415.0	3189.0	2892.0	2409.1	2287.0	1864.2
15°	3586.2	3600.8	3631.8	3748.4	3804.9	3726.6	3531.6	3192.6	2720.7	2551.2	2033.7
17.5°	3637.3	3630.0	3668.3	3843.2	3928.8	4003.6	3881.5	3527.9	2992.2	2840.9	2245.0
20°	3701.1	3661.0	3744.8	3855.9	4054.6	4211.3	4205.8	3865.1	3276.5	3116.1	2454.6
22.5°	3937.9	3907.0	3974.4	3985.3	4123.8	4342.5	4395.3	4140.2	3568.0	3371.2	2680.6
25°	4375.3	4431.8	4351.6	4282.4	4324.3	4468.2	4506.5	4384.4	3861.4	3681.0	2906.5
27.5°	5014.9	5007.6	4849.1	4759.8	4659.6	4641.3	4668.7	4612.2	4092.8	3963.5	3092.4
30°	5701.9	5641.8	5496.0	5281.0	5060.5	4923.8	4885.5	4827.2	4364.4	4176.7	3276.5
32.5°	6248.6	6281.4	6119.2	5838.6	5472.3	5288.3	5104.2	5040.4	4663.2	4497.4	3487.8
35°	6751.6	6707.8	6578.4	6341.5	6013.5	5716.5	5428.6	5291.9	5022.2	4858.2	3721.1
37.5°	7123.3	7178.0	6932.0	6706.0	6379.8	6133.8	5851.3	5552.5	5392.1	5173.5	4005.4
40°	7475.0	7389.3	7223.5	7015.8	6713.3	6525.6	6339.7	5873.2	5785.7	5503.3	4326.1
42.5°	7413.0	7418.5	7327.4	7159.7	6941.1	6833.6	6769.8	6263.2	6142.9	5962.5	4639.5
45°	7159.7	7181.6	7212.6	7130.6	7148.8	7041.3	7212.6	6711.5	6593.0	6401.7	5000.3
47.5°	6880.9	6917.4	6910.1	7059.5	7229.0	7265.4	7693.7	7208.9	7157.9	7052.2	5499.6
50°	6418.1	6432.7	6573.0	6844.5	7075.9	7456.8	8054.5	7752.0	7830.3	7622.6	6093.7
52.5°	5627.2	5680.0	6040.9	6429.0	6895.5	7553.4	8298.7	8559.3	8757.9	8544.7	6664.1
55°	4626.8	4699.7	5055.0	5782.1	6465.5	7407.6	8521.0	8985.7	9388.4	9065.8	7010.3
57.5°	3722.9	3730.2	4049.1	4799.9	5855.0	7121.5	8634.0	9193.4	9734.6	9475.9	7433.1
60°	2837.3	2808.1	3094.2	3744.8	4827.2	6418.1	8351.5	9299.1	10166.5	10017.1	7941.5
62.5°	1825.9	1780.4	2092.0	2726.1	3770.3	5246.3	7786.6	9300.9	10840.7	10784.3	8792.5
65°	903.9	872.9	1140.7	1671.0	2609.5	4012.7	6981.2	9266.3	11664.4	11700.9	9621.6
67.5°	477.4	488.4	574.0	847.4	1505.2	2835.5	5767.5	8859.9	12085.4	12289.5	9822.1
68°	439.2	442.8	510.2	705.2	1306.6	2629.6	5479.6	8741.5	12118.2	12369.6	9710.9
70°	357.2	362.6	386.3	442.8	707.0	1711.1	4227.7	7735.6	11624.3	11853.9	8790.7
72.5°	284.3	300.7	315.3	338.9	415.5	898.4	2629.6	6028.1	9603.4	9628.9	6842.7
75°	216.9	229.6	258.8	278.8	324.4	493.8	1251.9	3675.5	6301.4	5991.7	4030.9
77.5°	167.6	178.6	191.3	218.7	271.5	333.5	382.7	1559.9	2676.9	2203.1	1138.9
80°	100.2	107.5	149.4	171.3	236.9	226.0	151.2	433.7	543.0	428.2	207.7
82.5°	58.3	63.8	85.6	131.2	165.8	122.1	89.3	134.8	133.0	116.6	69.2
85°	1.8	3.6	47.4	78.4	58.3	32.8	54.7	56.5	47.4	43.7	31.0
87.5°	0.0	1.8	12.8	10.9	12.8	7.3	10.9	14.6	18.2	16.4	12.8
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°	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5	1266.5
2.5°	1279.2	1239.2	1149.9	1082.4	1009.5	965.8	922.1	894.7	880.2	871.1	878.3
5°	1312.0	1228.2	1084.3	956.7	872.9	816.4	759.9	730.7	703.4	688.8	697.9
7.5°	1384.9	1259.2	1020.5	882.0	783.6	696.1	625.0	568.6	535.8	506.6	512.1
10°	1474.2	1277.4	1022.3	838.2	696.1	557.6	457.4	386.3	346.2	320.7	318.9
12.5°	1565.3	1348.5	1029.6	794.5	588.6	419.1	300.7	247.8	224.1	211.4	211.4
15°	1703.8	1412.3	1011.4	714.3	446.5	273.3	205.9	187.7	178.6	167.6	169.5
17.5°	1824.1	1514.3	1002.3	594.1	306.1	196.8	171.3	151.2	142.1	131.2	131.2
20°	1986.3	1578.1	953.1	459.2	211.4	164.0	138.5	120.3	105.7	96.6	98.4
22.5°	2133.9	1627.3	865.6	313.4	162.2	129.4	102.0	83.8	71.1	60.1	62.0
25°	2294.3	1676.5	738.0	193.2	114.8	80.2	54.7	40.1	27.3	20.0	20.0
27.5°	2409.1	1691.1	572.2	114.8	69.2	36.4	12.8	1.8	0.0	0.0	0.0
30°	2525.7	1696.5	395.4	62.0	27.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2658.7	1694.7	247.8	32.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	2760.8	1663.7	118.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2915.6	1618.2	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3092.4	1536.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3250.9	1452.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3431.4	1348.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3748.4	1304.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4162.1	1270.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4417.2	1168.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4550.2	1062.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4747.0	1011.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5038.6	1015.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5494.2	1066.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5745.7	1015.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5532.4	812.7	34.6	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	5348.4	747.1	34.6	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	4420.9	486.5	32.8	9.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3220.0	269.7	27.3	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	1873.3	134.8	20.0	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	488.4	67.4	16.4	9.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0
80°	96.6	43.7	14.6	10.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	45.6	31.0	14.6	10.9	9.1	5.5	1.8	0.0	0.0	0.0	0.0
85°	23.7	14.6	14.6	10.9	10.9	7.3	3.6	0.0	0.0	0.0	0.0
87.5°	10.9	5.5	5.5	5.5	5.5	3.6	1.8	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)