

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: P482154

Luminaire Tested: **IFLD-M-SA4A-760-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482154
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-760-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

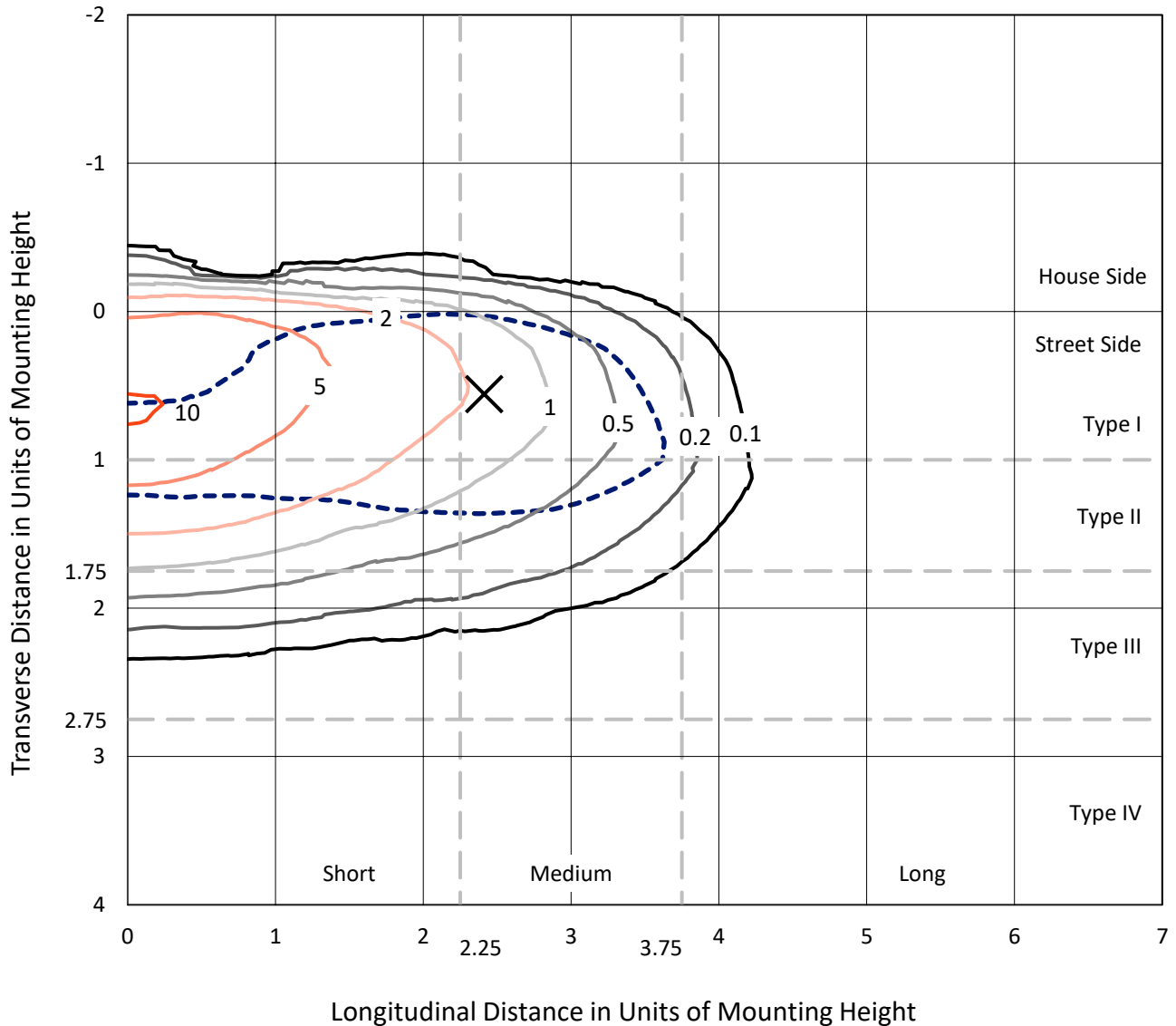
Lumens per Lamp: N/A
Luminaire Lumens: 14851.7 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

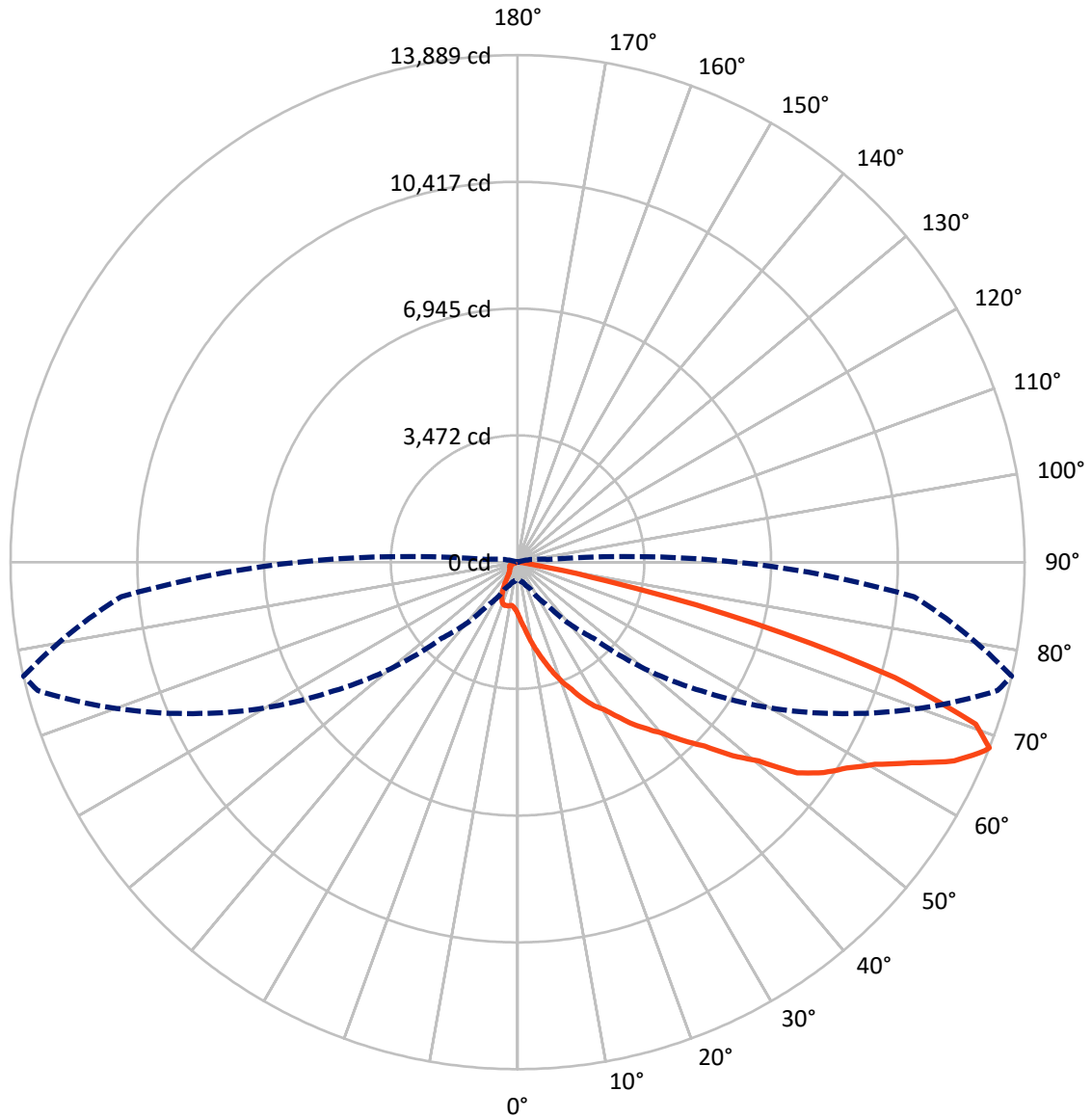
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 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	673.5	0.0	673.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	14178.2	0.0	14178.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	14851.7	0.0	14851.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.1	1.1
10°-20°	612.7	4.1
20°-30°	1187.5	8.0
30°-40°	2070.2	13.9
40°-50°	3031.9	20.4
50°-60°	3562.1	24.0
60°-70°	3007.8	20.3
70°-80°	1165.9	7.9
80°-90°	47.4	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°	14851.7	100.0
0°-180°	14851.7	100.0

Coefficient of Utilization



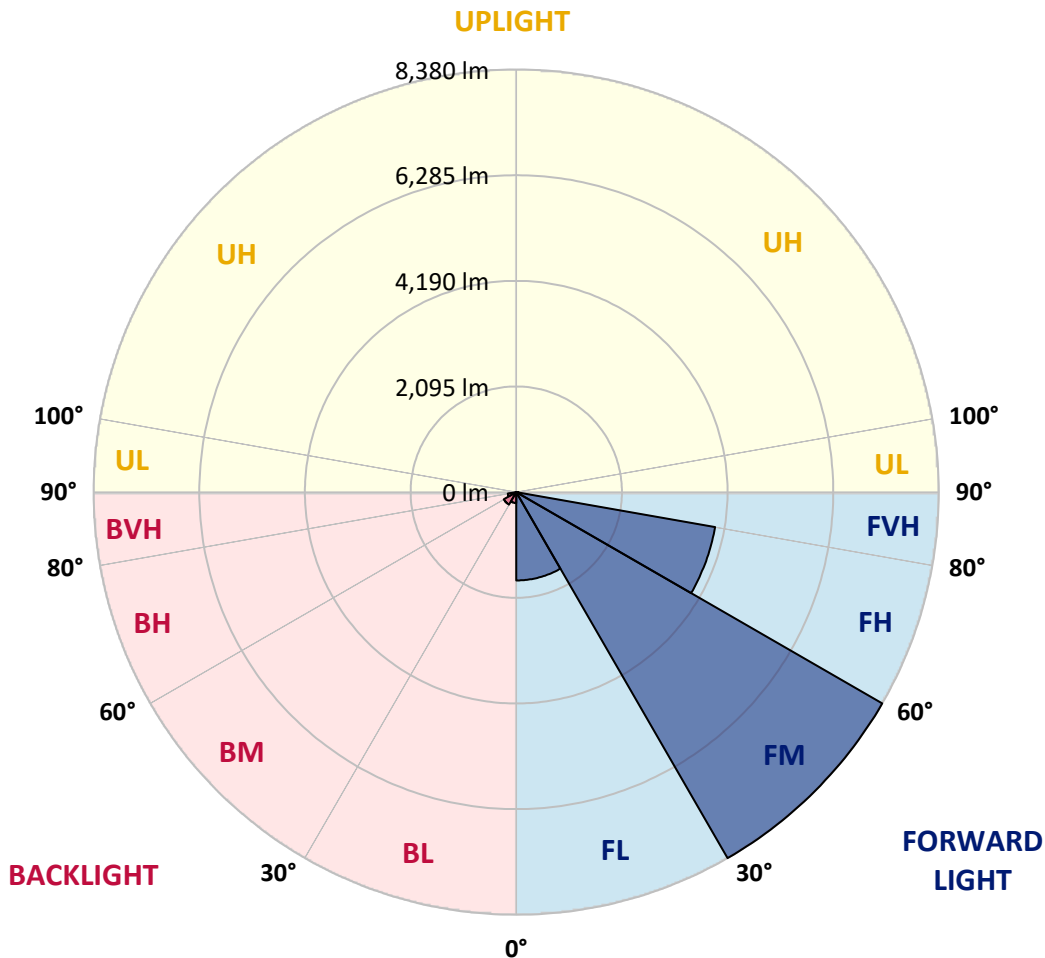
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1751.1	11.8			
FM (30°-60°)	8379.6	56.4			
FH (60°-80°)	4003.7	27.0			G2/5000
FVH (80°-90°)	43.7	0.3			G1/100
BL (0°-30°)	215.2	1.4	B1/500		
BM (30°-60°)	284.6	1.9	B1/1000		
BH (60°-80°)	170.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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°	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1
2.5°	2160.7	2119.8	2076.8	2064.6	1984.8	1894.7	1810.8	1729.0	1591.9	1593.9	1499.8
5°	2784.8	2733.6	2698.9	2690.7	2565.9	2410.4	2283.5	2052.3	1825.2	1774.0	1602.1
7.5°	3298.4	3282.0	3230.9	3187.9	3095.8	2905.5	2756.2	2424.7	2078.9	2021.6	1726.9
10°	3609.4	3634.0	3656.5	3601.2	3529.6	3392.5	3187.9	2829.8	2367.4	2295.8	1888.6
12.5°	3940.9	3900.0	3914.3	3959.3	3865.2	3834.5	3580.8	3247.2	2705.0	2567.9	2093.2
15°	4026.8	4043.2	4078.0	4208.9	4272.3	4184.4	3965.4	3584.8	3054.9	2864.6	2283.5
17.5°	4084.1	4075.9	4118.9	4315.3	4411.5	4495.4	4358.3	3961.3	3359.8	3189.9	2520.8
20°	4155.7	4110.7	4204.8	4329.6	4552.7	4728.6	4722.5	4339.9	3679.0	3498.9	2756.2
22.5°	4421.7	4386.9	4462.6	4474.9	4630.4	4876.0	4935.3	4648.8	4006.3	3785.4	3009.9
25°	4912.8	4976.2	4886.2	4808.4	4855.5	5017.1	5060.1	4923.0	4335.8	4133.2	3263.6
27.5°	5631.0	5622.8	5444.8	5344.5	5232.0	5211.5	5242.2	5178.8	4595.6	4450.4	3472.3
30°	6402.4	6334.9	6171.2	5929.7	5682.1	5528.7	5485.7	5420.2	4900.5	4689.8	3679.0
32.5°	7016.2	7053.1	6871.0	6555.8	6144.6	5937.9	5731.2	5659.6	5236.1	5049.9	3916.3
35°	7581.0	7531.9	7386.6	7120.6	6752.3	6418.8	6095.5	5942.0	5639.2	5455.0	4178.2
37.5°	7998.4	8059.8	7783.5	7529.8	7163.6	6887.3	6570.2	6234.6	6054.5	5809.0	4497.4
40°	8393.3	8297.1	8110.9	7877.7	7538.0	7327.2	7118.5	6594.7	6496.5	6179.4	4857.5
42.5°	8323.7	8329.9	8227.5	8039.3	7793.8	7673.0	7601.4	7032.6	6897.6	6695.0	5209.5
45°	8039.3	8063.9	8098.6	8006.6	8027.0	7906.3	8098.6	7535.9	7402.9	7188.1	5614.6
47.5°	7726.2	7767.2	7759.0	7926.8	8117.1	8158.0	8638.8	8094.5	8037.3	7918.6	6175.3
50°	7206.5	7222.9	7380.4	7685.3	7945.2	8372.8	9044.0	8704.3	8792.3	8559.0	6842.3
52.5°	6318.5	6377.8	6783.0	7218.8	7742.6	8481.3	9318.1	9610.7	9833.8	9594.4	7482.7
55°	5195.2	5277.0	5676.0	6492.4	7259.7	8317.6	9567.8	10089.5	10541.7	10179.6	7871.5
57.5°	4180.3	4188.5	4546.5	5389.5	6574.3	7996.3	9694.6	10322.8	10930.5	10639.9	8346.2
60°	3185.8	3153.1	3474.4	4204.8	5420.2	7206.5	9377.5	10441.5	11415.4	11247.7	8917.1
62.5°	2050.2	1999.1	2349.0	3061.0	4233.5	5890.8	8743.2	10443.5	12172.5	12109.1	9872.6
65°	1014.9	980.1	1280.9	1876.3	2930.1	4505.6	7838.8	10404.6	13097.4	13138.3	10803.6
67.5°	536.1	548.4	644.5	951.5	1690.1	3183.8	6476.0	9948.4	13570.0	13799.2	11028.7
68°	493.1	497.2	572.9	791.9	1467.1	2952.6	6152.8	9815.4	13606.9	13889.2	10903.9
70°	401.0	407.2	433.8	497.2	793.9	1921.3	4747.1	8685.9	13052.4	13310.2	9870.6
72.5°	319.2	337.6	354.0	380.6	466.5	1008.7	2952.6	6768.6	10783.2	10811.8	7683.3
75°	243.5	257.8	290.6	313.1	364.2	554.5	1405.7	4127.1	7075.6	6727.7	4526.1
77.5°	188.2	200.5	214.8	245.5	304.9	374.4	429.7	1751.5	3005.8	2473.8	1278.8
80°	112.5	120.7	167.8	192.3	266.0	253.7	169.8	487.0	609.8	480.8	233.3
82.5°	65.5	71.6	96.2	147.3	186.2	137.1	100.3	151.4	149.4	131.0	77.8
85°	2.0	4.1	53.2	88.0	65.5	36.8	61.4	63.4	53.2	49.1	34.8
87.5°	0.0	2.0	14.3	12.3	14.3	8.2	12.3	16.4	20.5	18.4	14.3
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°	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1	1422.1
2.5°	1436.4	1391.4	1291.1	1215.4	1133.6	1084.5	1035.3	1004.7	988.3	978.1	986.2
5°	1473.2	1379.1	1217.5	1074.2	980.1	916.7	853.2	820.5	789.8	773.4	783.7
7.5°	1555.1	1413.9	1145.8	990.3	879.8	781.6	701.8	638.4	601.6	568.8	575.0
10°	1655.3	1434.3	1147.9	941.2	781.6	626.1	513.6	433.8	388.8	360.1	358.1
12.5°	1757.6	1514.1	1156.1	892.1	660.9	470.6	337.6	278.3	251.7	237.4	237.4
15°	1913.1	1585.8	1135.6	802.1	501.3	306.9	231.2	210.8	200.5	188.2	190.3
17.5°	2048.2	1700.3	1125.4	667.0	343.8	221.0	192.3	169.8	159.6	147.3	147.3
20°	2230.3	1772.0	1070.1	515.6	237.4	184.2	155.5	135.0	118.7	108.4	110.5
22.5°	2396.0	1827.2	971.9	351.9	182.1	145.3	114.6	94.1	79.8	67.5	69.6
25°	2576.1	1882.5	828.7	216.9	128.9	90.0	61.4	45.0	30.7	22.5	22.5
27.5°	2705.0	1898.8	642.5	128.9	77.8	40.9	14.3	2.0	0.0	0.0	0.0
30°	2836.0	1905.0	444.0	69.6	30.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2985.3	1902.9	278.3	36.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3099.9	1868.1	133.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3273.8	1817.0	40.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3472.3	1724.9	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3650.3	1630.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3852.9	1514.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4208.9	1465.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4673.4	1426.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4959.9	1311.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5109.2	1192.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5330.2	1135.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5657.6	1139.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6169.1	1197.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6451.5	1139.7	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6212.1	912.6	38.9	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	6005.4	838.9	38.9	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4963.9	546.3	36.8	10.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3615.5	302.8	30.7	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	2103.4	151.4	22.5	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	548.4	75.7	18.4	10.2	6.1	2.0	0.0	0.0	0.0	0.0	0.0
80°	108.4	49.1	16.4	12.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	51.2	34.8	16.4	12.3	10.2	6.1	2.0	0.0	0.0	0.0	0.0
85°	26.6	16.4	16.4	12.3	12.3	8.2	4.1	0.0	0.0	0.0	0.0
87.5°	12.3	6.1	6.1	6.1	6.1	4.1	2.0	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)