

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: P482242

Luminaire Tested: **IFLD-L-SA8A-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482242
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

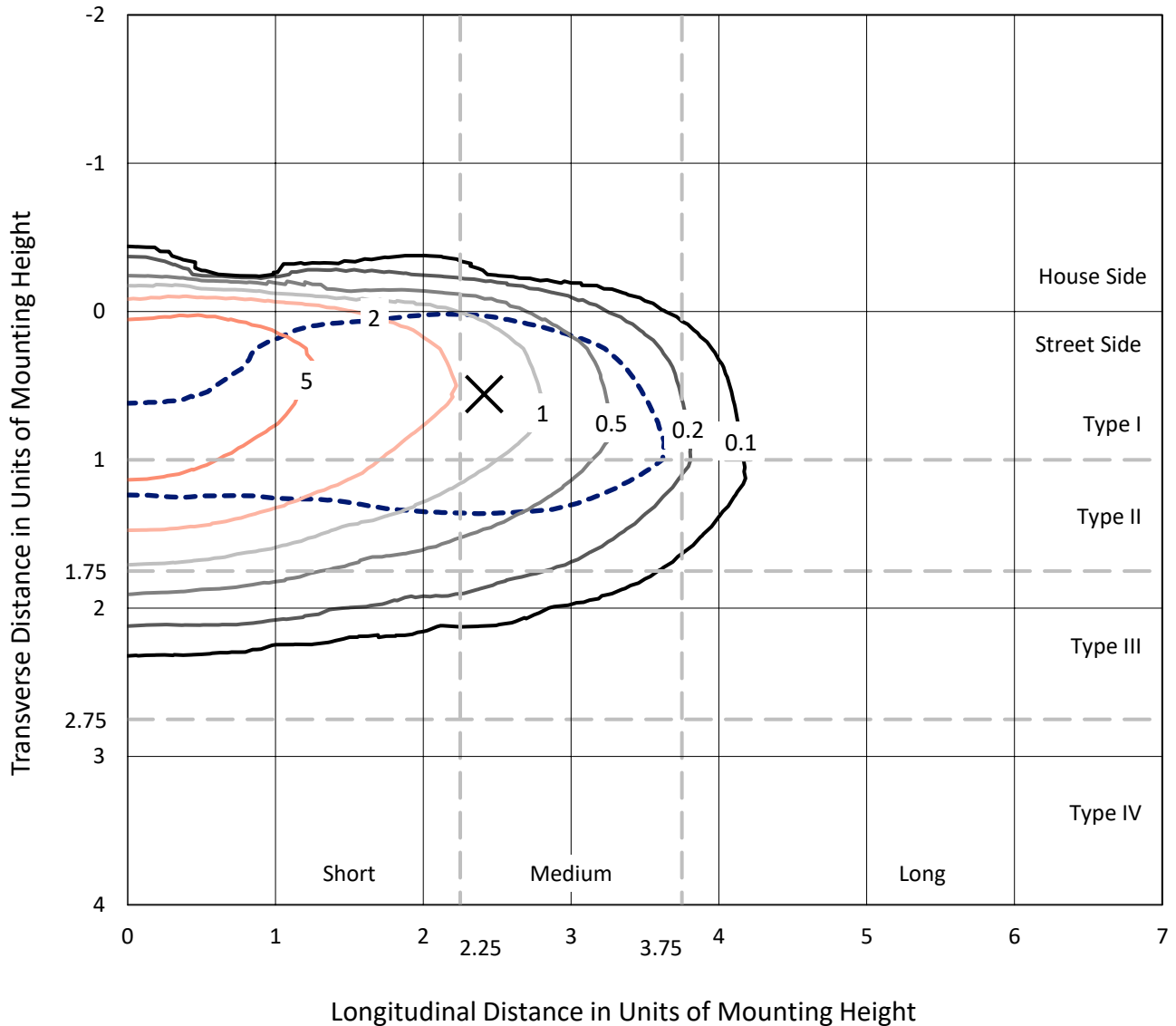
Lumens per Lamp: N/A
Luminaire Lumens: 21400.6 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 247.8
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

REPORT NUMBER: P482242
 CATALOG NUMBER: IFLD-L-SA8A-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

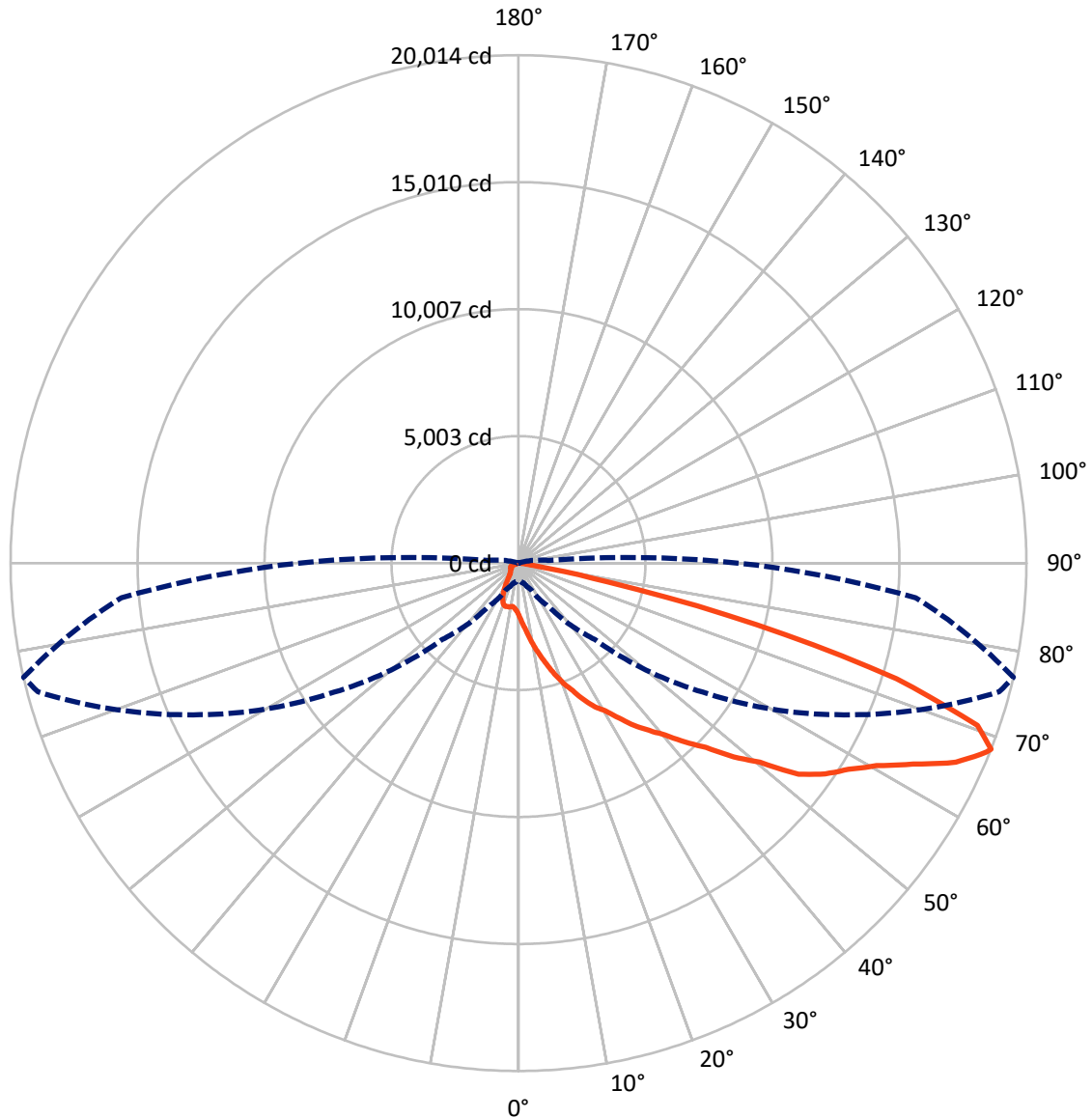
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P482242
CATALOG NUMBER: IFLD-L-SA8A-830-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482242
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	970.5	0.0	970.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	20430.1	0.0	20430.1
	% Fixture	95.5	0.0	95.5
Total	Lumens	21400.6	0.0	21400.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	1.1
10°-20°	882.9	4.1
20°-30°	1711.1	8.0
30°-40°	2983.0	13.9
40°-50°	4368.9	20.4
50°-60°	5132.8	24.0
60°-70°	4334.2	20.3
70°-80°	1680.0	7.9
80°-90°	68.3	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°	21400.6	100.0
0°-180°	21400.6	100.0

Coefficient of Utilization



REPORT NUMBER: P482242

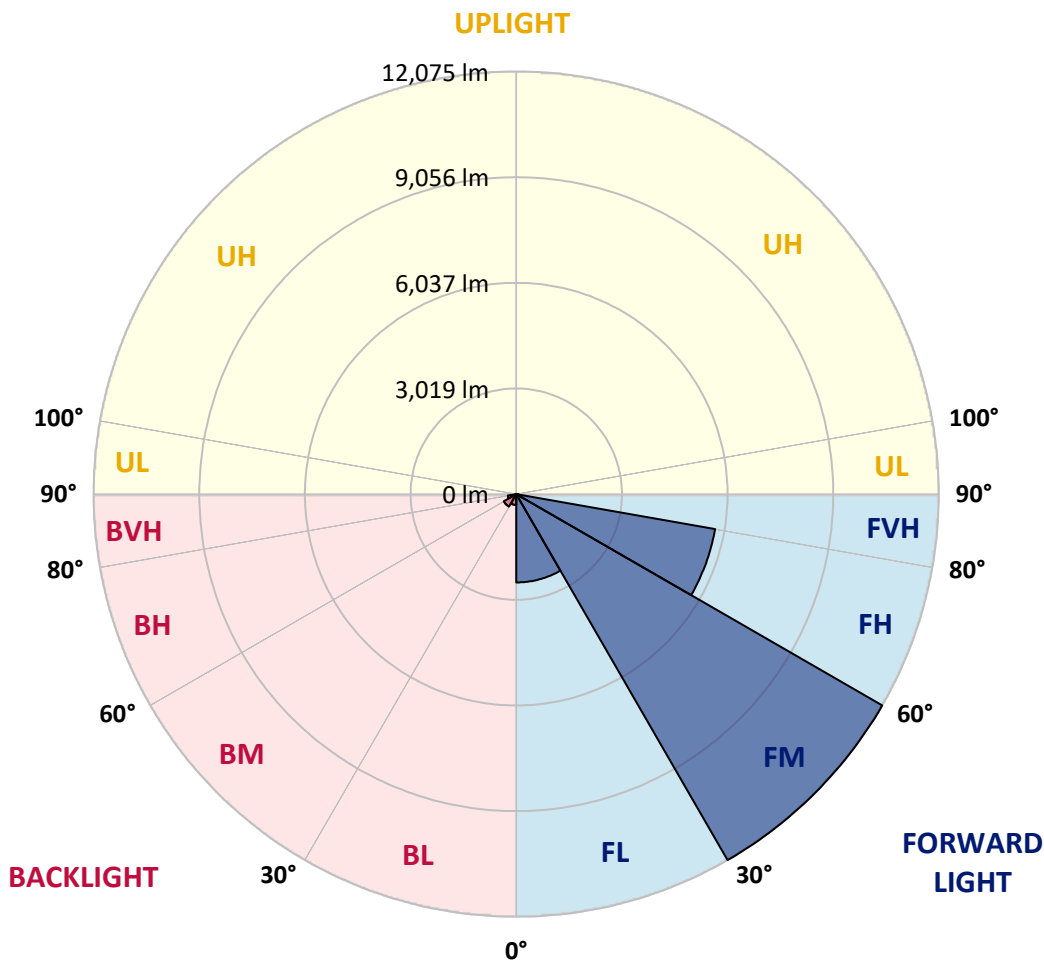
CATALOG NUMBER: IFLD-L-SA8A-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2523.3	11.8			
FM (30°-60°)	12074.6	56.4			
FH (60°-80°)	5769.2	27.0			G3/7500
FVH (80°-90°)	63.0	0.3			G1/100
BL (0°-30°)	310.1	1.4	B1/500		
BM (30°-60°)	410.1	1.9	B1/1000		
BH (60°-80°)	245.0	1.1	B1/500		G1/500
BVH (80°-90°)	5.3	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-G3

Type II Medium





REPORT NUMBER: P482242

CATALOG NUMBER: IFLD-L-SA8A-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1
2.5°	3113.5	3054.5	2992.6	2974.9	2859.9	2730.2	2609.3	2491.4	2293.9	2296.8	2161.2
5°	4012.8	3939.1	3888.9	3877.1	3697.3	3473.2	3290.4	2957.2	2630.0	2556.3	2308.6
7.5°	4752.8	4729.2	4655.5	4593.6	4460.9	4186.7	3971.5	3493.9	2995.6	2913.0	2488.4
10°	5201.0	5236.4	5268.8	5189.2	5086.0	4888.4	4593.6	4077.6	3411.3	3308.1	2721.4
12.5°	5678.6	5619.6	5640.3	5705.2	5569.5	5525.3	5159.7	4679.1	3897.8	3700.2	3016.2
15°	5802.4	5826.0	5876.2	6064.9	6156.3	6029.5	5714.0	5165.6	4402.0	4127.8	3290.4
17.5°	5885.0	5873.2	5935.1	6218.2	6356.7	6477.6	6280.1	5708.1	4841.3	4596.6	3632.4
20°	5988.2	5923.3	6059.0	6238.8	6560.2	6813.8	6804.9	6253.6	5301.2	5041.8	3971.5
22.5°	6371.5	6321.4	6430.5	6448.1	6672.2	7026.0	7111.5	6698.8	5773.0	5454.5	4337.1
25°	7079.1	7170.5	7040.8	6928.7	6996.6	7229.5	7291.4	7093.8	6247.7	5955.8	4702.7
27.5°	8114.0	8102.2	7845.7	7701.2	7539.1	7509.6	7553.8	7462.4	6622.1	6412.8	5003.4
30°	9225.5	9128.2	8892.4	8544.5	8187.7	7966.6	7904.7	7810.3	7061.4	6757.7	5301.2
32.5°	10110.1	10163.1	9900.7	9446.7	8854.0	8556.3	8258.5	8155.3	7545.0	7276.6	5643.2
35°	10923.8	10853.1	10643.7	10260.4	9729.7	9249.1	8783.3	8562.2	8125.8	7860.4	6020.6
37.5°	11525.3	11613.7	11215.7	10850.1	10322.3	9924.3	9467.3	8983.8	8724.3	8370.5	6480.6
40°	12094.3	11955.8	11687.5	11351.3	10861.9	10558.2	10257.5	9502.7	9361.2	8904.2	6999.5
42.5°	11994.1	12002.9	11855.5	11584.3	11230.5	11056.5	10953.3	10133.6	9939.1	9647.2	7506.6
45°	11584.3	11619.6	11669.8	11537.1	11566.6	11392.6	11669.8	10859.0	10667.3	10357.7	8090.4
47.5°	11133.2	11192.1	11180.3	11422.1	11696.3	11755.3	12448.1	11663.9	11581.3	11410.3	8898.3
50°	10384.3	10407.8	10634.9	11074.2	11448.6	12064.8	13031.9	12542.5	12669.3	12333.2	9859.4
52.5°	9104.7	9190.2	9773.9	10402.0	11156.7	12221.1	13427.0	13848.6	14170.0	13825.0	10782.3
55°	7486.0	7603.9	8178.9	9355.3	10460.9	11985.2	13786.7	14538.6	15190.2	14668.3	11342.5
57.5°	6023.6	6035.4	6551.3	7766.1	9473.2	11522.3	13969.5	14874.7	15750.3	15331.7	12026.5
60°	4590.7	4543.5	5006.4	6059.0	7810.3	10384.3	13512.5	15045.7	16449.1	16207.3	12849.1
62.5°	2954.3	2880.6	3384.8	4410.8	6100.2	8488.4	12598.5	15048.6	17540.0	17448.6	14226.0
65°	1462.4	1412.3	1845.7	2703.7	4222.1	6492.4	11295.3	14992.6	18872.7	18931.7	15567.5
67.5°	772.5	790.2	928.7	1371.0	2435.4	4587.7	9331.7	14335.1	19553.8	19884.0	15891.9
68°	710.6	716.5	825.6	1141.0	2114.0	4254.5	8865.8	14143.5	19606.9	20013.7	15712.0
70°	577.9	586.7	625.1	716.5	1144.0	2768.5	6840.3	12516.0	18807.8	19179.3	14223.1
72.5°	460.0	486.5	510.1	548.4	672.2	1453.6	4254.5	9753.3	15538.1	15579.3	11071.2
75°	350.9	371.5	418.7	451.1	524.8	799.0	2025.6	5946.9	10195.6	9694.3	6521.9
77.5°	271.3	288.9	309.6	353.8	439.3	539.6	619.2	2523.8	4331.2	3564.6	1842.7
80°	162.2	174.0	241.8	277.1	383.3	365.6	244.7	701.7	878.6	692.9	336.1
82.5°	94.3	103.2	138.6	212.3	268.3	197.5	144.5	218.2	215.2	188.7	112.0
85°	2.9	5.9	76.7	126.8	94.3	53.1	88.5	91.4	76.7	70.8	50.1
87.5°	0.0	2.9	20.6	17.7	20.6	11.8	17.7	23.6	29.5	26.5	20.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482242

CATALOG NUMBER: IFLD-L-SA8A-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1	2049.1
2.5°	2069.8	2004.9	1860.4	1751.3	1633.4	1562.7	1491.9	1447.7	1424.1	1409.3	1421.1
5°	2122.8	1987.2	1754.3	1547.9	1412.3	1320.9	1229.5	1182.3	1138.1	1114.5	1129.2
7.5°	2240.8	2037.3	1651.1	1427.0	1267.8	1126.3	1011.3	919.9	866.8	819.7	828.5
10°	2385.3	2066.8	1654.1	1356.3	1126.3	902.2	740.0	625.1	560.2	518.9	516.0
12.5°	2532.7	2181.8	1665.8	1285.5	952.3	678.1	486.5	401.0	362.7	342.0	342.0
15°	2756.8	2285.0	1636.4	1155.8	722.4	442.3	333.2	303.7	288.9	271.3	274.2
17.5°	2951.3	2450.1	1621.6	961.2	495.3	318.4	277.1	244.7	230.0	212.3	212.3
20°	3213.8	2553.3	1542.0	743.0	342.0	265.4	224.1	194.6	171.0	156.3	159.2
22.5°	3452.6	2632.9	1400.5	507.1	262.4	209.3	165.1	135.6	115.0	97.3	100.2
25°	3712.0	2712.5	1194.1	312.5	185.7	129.7	88.5	64.9	44.2	32.4	32.4
27.5°	3897.8	2736.1	925.8	185.7	112.0	59.0	20.6	2.9	0.0	0.0	0.0
30°	4086.5	2745.0	639.8	100.2	44.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4301.7	2742.0	401.0	53.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	4466.8	2691.9	191.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4717.4	2618.2	59.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5003.4	2485.5	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5259.9	2349.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5551.8	2181.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6064.9	2111.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6734.1	2055.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7146.9	1889.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7362.2	1718.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7680.6	1636.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8152.3	1642.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8889.4	1724.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9296.3	1642.3	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8951.3	1315.0	56.0	14.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	8653.6	1208.8	56.0	14.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	7152.8	787.2	53.1	14.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5209.8	436.4	44.2	11.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3031.0	218.2	32.4	11.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	790.2	109.1	26.5	14.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0
80°	156.3	70.8	23.6	17.7	11.8	5.9	0.0	0.0	0.0	0.0	0.0
82.5°	73.7	50.1	23.6	17.7	14.7	8.8	2.9	0.0	0.0	0.0	0.0
85°	38.3	23.6	23.6	17.7	17.7	11.8	5.9	0.0	0.0	0.0	0.0
87.5°	17.7	8.8	8.8	8.8	8.8	5.9	2.9	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)