

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: P482042

Luminaire Tested: **IFLD-L-SA7A-735-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482042
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

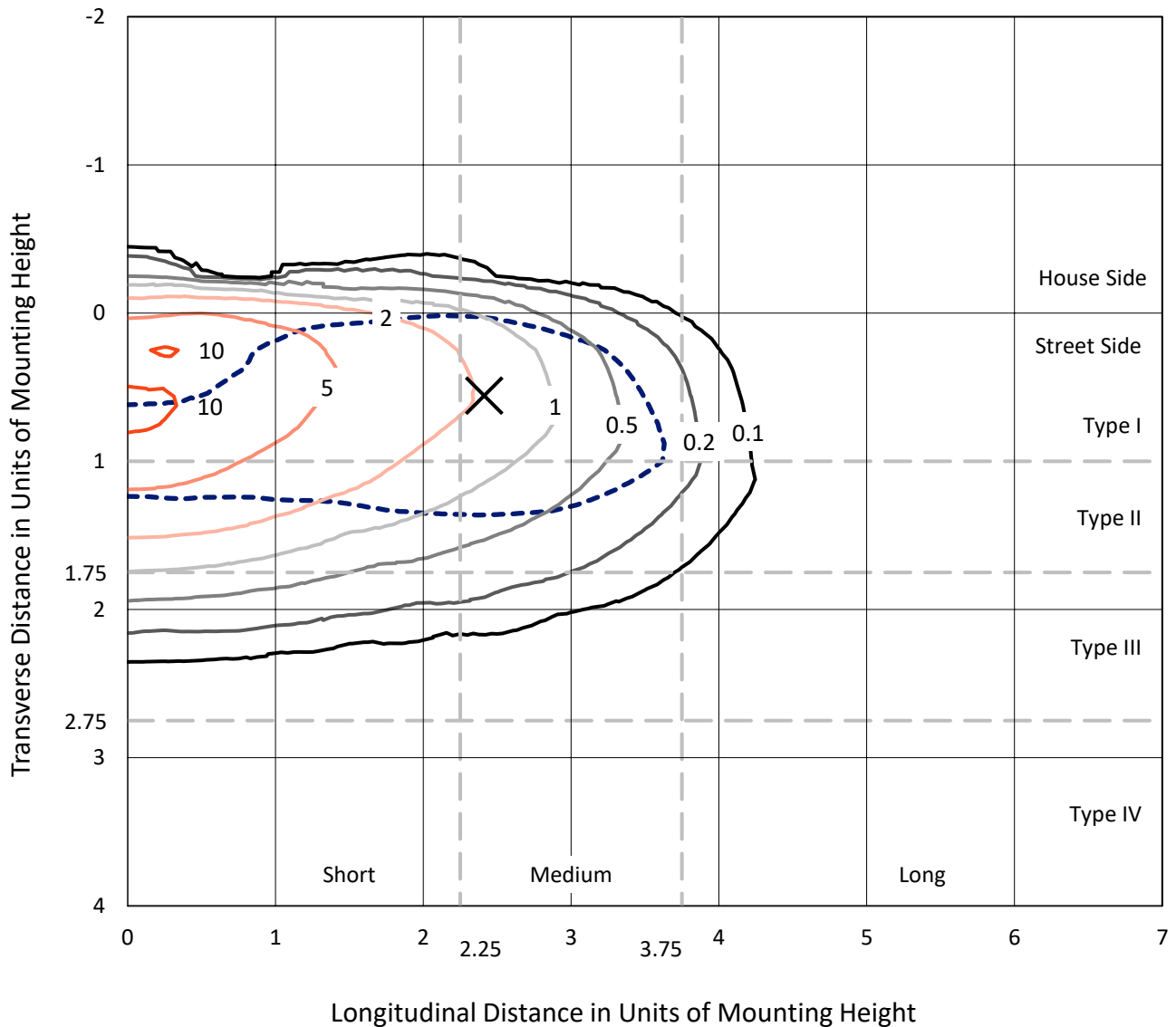
Lumens per Lamp: N/A
Luminaire Lumens: 24271.6 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 217.6
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

REPORT NUMBER: P482042
 CATALOG NUMBER: IFLD-L-SA7A-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

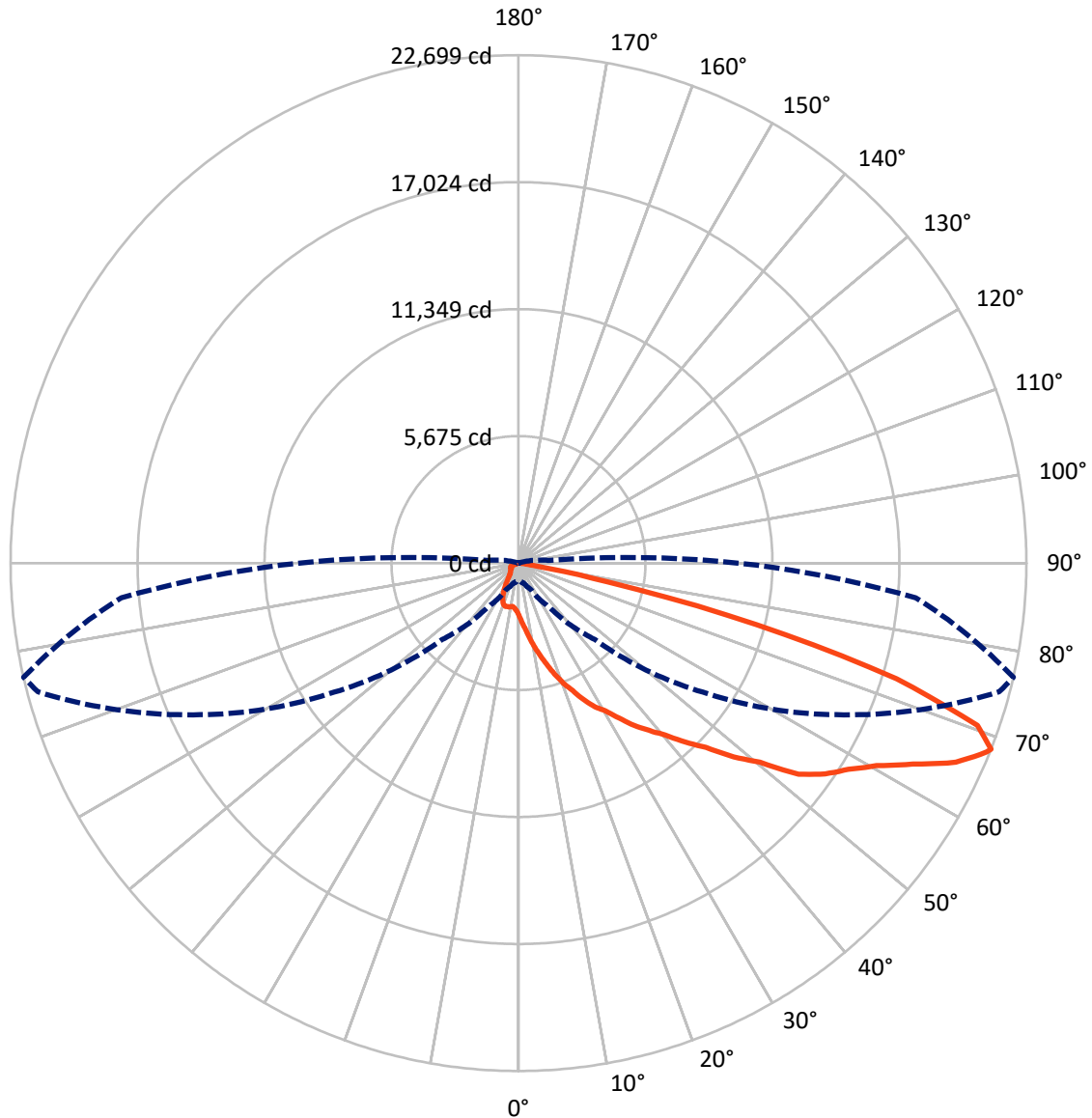
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - N/A

REPORT NUMBER: P482042
CATALOG NUMBER: IFLD-L-SA7A-735-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482042
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1100.7	0.0	1100.7
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	23170.9	0.0	23170.9
	% Fixture	95.5	0.0	95.5
Total	Lumens	24271.6	0.0	24271.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	1.1
10°-20°	1001.4	4.1
20°-30°	1940.6	8.0
30°-40°	3383.2	13.9
40°-50°	4955.0	20.4
50°-60°	5821.4	24.0
60°-70°	4915.6	20.3
70°-80°	1905.4	7.9
80°-90°	77.5	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°	24271.6	100.0
0°-180°	24271.6	100.0

Coefficient of Utilization



REPORT NUMBER: P482042

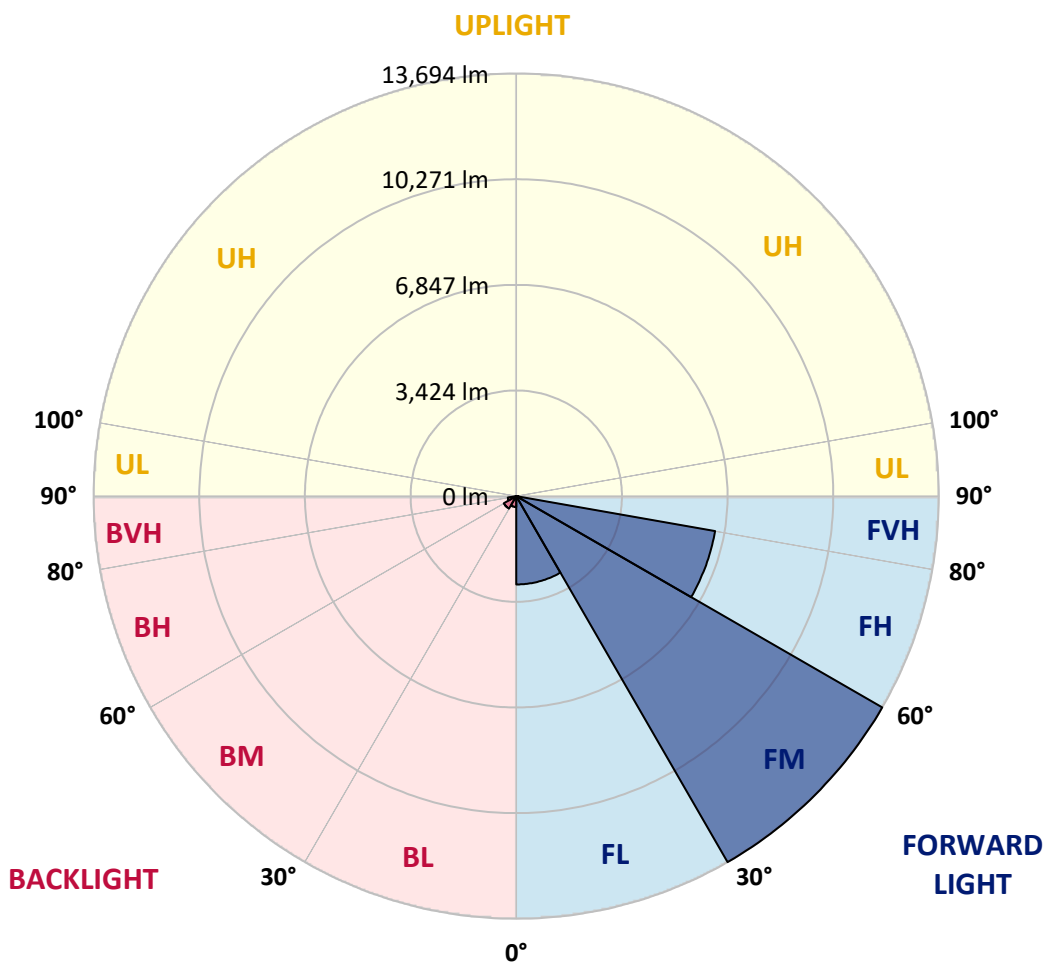
CATALOG NUMBER: IFLD-L-SA7A-735-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2861.8	11.8			
FM (30°-60°)	13694.4	56.4			
FH (60°-80°)	6543.1	27.0			G3/7500
FVH (80°-90°)	71.5	0.3			G1/100
BL (0°-30°)	351.7	1.4	B1/500		
BM (30°-60°)	465.1	1.9	B1/1000		
BH (60°-80°)	277.9	1.1	B1/500		G1/500
BVH (80°-90°)	6.0	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: P482042

CATALOG NUMBER: IFLD-L-SA7A-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0
2.5°	3531.2	3464.3	3394.1	3374.0	3243.6	3096.5	2959.4	2825.6	2601.6	2604.9	2451.1
5°	4551.1	4467.5	4410.7	4397.3	4193.3	3939.2	3731.8	3354.0	2982.8	2899.2	2618.3
7.5°	5390.4	5363.7	5280.1	5209.9	5059.4	4748.4	4504.3	3962.6	3397.4	3303.8	2822.3
10°	5898.7	5938.8	5975.6	5885.3	5768.3	5544.3	5209.9	4624.7	3868.9	3751.9	3086.5
12.5°	6440.4	6373.6	6397.0	6470.5	6316.7	6266.5	5851.9	5306.8	4420.7	4196.6	3420.9
15°	6580.9	6607.6	6664.5	6878.5	6982.1	6838.4	6480.6	5858.6	4992.5	4681.5	3731.8
17.5°	6674.5	6661.1	6731.4	7052.4	7209.5	7346.6	7122.6	6473.9	5490.8	5213.2	4119.7
20°	6791.5	6718.0	6871.8	7075.8	7440.3	7727.8	7717.8	7092.5	6012.4	5718.1	4504.3
22.5°	7226.3	7169.4	7293.1	7313.2	7567.3	7968.6	8065.6	7597.4	6547.4	6186.3	4918.9
25°	8028.8	8132.5	7985.3	7858.3	7935.2	8199.3	8269.6	8045.5	7085.8	6754.8	5333.6
27.5°	9202.5	9189.2	8898.2	8734.4	8550.5	8517.0	8567.2	8463.5	7510.5	7273.1	5674.7
30°	10463.2	10352.8	10085.3	9690.7	9286.1	9035.3	8965.1	8858.1	8008.7	7664.3	6012.4
32.5°	11466.4	11526.6	11229.0	10714.0	10041.9	9704.1	9366.4	9249.3	8557.1	8252.8	6400.3
35°	12389.3	12309.0	12071.6	11636.9	11035.0	10489.9	9961.6	9710.8	9215.9	8914.9	6828.3
37.5°	13071.5	13171.8	12720.4	12305.7	11707.1	11255.7	10737.4	10189.0	9894.7	9493.4	7350.0
40°	13716.8	13559.7	13255.4	12874.2	12319.1	11974.7	11633.6	10777.5	10617.0	10098.7	7938.5
42.5°	13603.2	13613.2	13446.0	13138.3	12737.1	12539.8	12422.7	11493.1	11272.4	10941.4	8513.7
45°	13138.3	13178.5	13235.3	13084.8	13118.3	12921.0	13235.3	12315.7	12098.4	11747.3	9175.8
47.5°	12626.7	12693.6	12680.2	12954.4	13265.4	13332.3	14118.1	13228.6	13135.0	12941.1	10092.0
50°	11777.4	11804.1	12061.6	12559.8	12984.5	13683.4	14780.2	14225.1	14368.9	13987.7	11182.1
52.5°	10326.1	10423.1	11085.2	11797.4	12653.5	13860.6	15228.3	15706.5	16071.0	15679.7	12228.8
55°	8490.3	8624.0	9276.1	10610.3	11864.3	13593.1	15636.3	16489.0	17228.0	16636.1	12864.1
57.5°	6831.7	6845.0	7430.2	8807.9	10744.1	13068.1	15843.6	16870.2	17863.3	17388.5	13639.9
60°	5206.5	5153.0	5678.0	6871.8	8858.1	11777.4	15325.3	17064.1	18655.8	18381.6	14572.9
62.5°	3350.6	3267.0	3838.8	5002.5	6918.6	9627.2	14288.7	17067.5	19893.1	19789.4	16134.5
65°	1658.6	1601.7	2093.3	3066.4	4788.5	7363.4	12810.6	17003.9	21404.6	21471.4	17656.0
67.5°	876.1	896.2	1053.3	1554.9	2762.1	5203.2	10583.6	16258.2	22177.0	22551.5	18023.8
68°	805.9	812.6	936.3	1294.1	2397.6	4825.3	10055.2	16040.9	22237.2	22698.7	17819.9
70°	655.4	665.4	708.9	812.6	1297.4	3140.0	7757.9	14195.0	21331.0	21752.3	16131.2
72.5°	521.7	551.8	578.5	622.0	762.4	1648.6	4825.3	11061.8	17622.6	17669.4	12556.5
75°	397.9	421.3	474.8	511.6	595.2	906.2	2297.3	6744.7	11563.3	10994.9	7396.8
77.5°	307.6	327.7	351.1	401.3	498.2	611.9	702.2	2862.4	4912.2	4042.8	2090.0
80°	183.9	197.3	274.2	314.3	434.7	414.6	277.5	795.9	996.5	785.8	381.2
82.5°	107.0	117.0	157.2	240.8	304.3	224.0	163.9	247.5	244.1	214.0	127.1
85°	3.3	6.7	86.9	143.8	107.0	60.2	100.3	103.7	86.9	80.3	56.8
87.5°	0.0	3.3	23.4	20.1	23.4	13.4	20.1	26.8	33.4	30.1	23.4
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: P482042

CATALOG NUMBER: IFLD-L-SA7A-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0	2324.0
2.5°	2347.4	2273.9	2110.0	1986.3	1852.5	1772.3	1692.0	1641.9	1615.1	1598.4	1611.8
5°	2407.6	2253.8	1989.6	1755.6	1601.7	1498.1	1394.4	1340.9	1290.8	1264.0	1280.7
7.5°	2541.4	2310.7	1872.6	1618.5	1437.9	1277.4	1147.0	1043.3	983.1	929.6	939.6
10°	2705.2	2344.1	1876.0	1538.2	1277.4	1023.2	839.3	708.9	635.3	588.5	585.2
12.5°	2872.4	2474.5	1889.3	1458.0	1080.1	769.1	551.8	454.8	411.3	387.9	387.9
15°	3126.6	2591.6	1855.9	1310.8	819.3	501.6	377.9	344.4	327.7	307.6	311.0
17.5°	3347.3	2778.8	1839.2	1090.1	561.8	361.1	314.3	277.5	260.8	240.8	240.8
20°	3644.9	2895.9	1748.9	842.7	387.9	301.0	254.1	220.7	193.9	177.2	180.6
22.5°	3915.8	2986.1	1588.4	575.2	297.6	237.4	187.3	153.8	130.4	110.4	113.7
25°	4210.0	3076.4	1354.3	354.5	210.7	147.1	100.3	73.6	50.2	36.8	36.8
27.5°	4420.7	3103.2	1050.0	210.7	127.1	66.9	23.4	3.3	0.0	0.0	0.0
30°	4634.7	3113.2	725.6	113.7	50.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4878.8	3109.9	454.8	60.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	5066.1	3053.0	217.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5350.3	2969.4	66.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5674.7	2818.9	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5965.6	2665.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6296.6	2474.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6878.5	2394.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7637.6	2330.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8105.7	2143.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8349.8	1949.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8711.0	1855.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9246.0	1862.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10082.0	1956.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10543.4	1862.6	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10152.2	1491.4	63.5	16.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	9814.5	1371.0	63.5	16.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	8112.4	892.8	60.2	16.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5908.7	494.9	50.2	13.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	3437.6	247.5	36.8	13.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	896.2	123.7	30.1	16.7	10.0	3.3	0.0	0.0	0.0	0.0	0.0
80°	177.2	80.3	26.8	20.1	13.4	6.7	0.0	0.0	0.0	0.0	0.0
82.5°	83.6	56.8	26.8	20.1	16.7	10.0	3.3	0.0	0.0	0.0	0.0
85°	43.5	26.8	26.8	20.1	20.1	13.4	6.7	0.0	0.0	0.0	0.0
87.5°	20.1	10.0	10.0	10.0	10.0	6.7	3.3	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)