

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: P482121

Luminaire Tested: **IFLD-L-SA7B-750-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482121
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

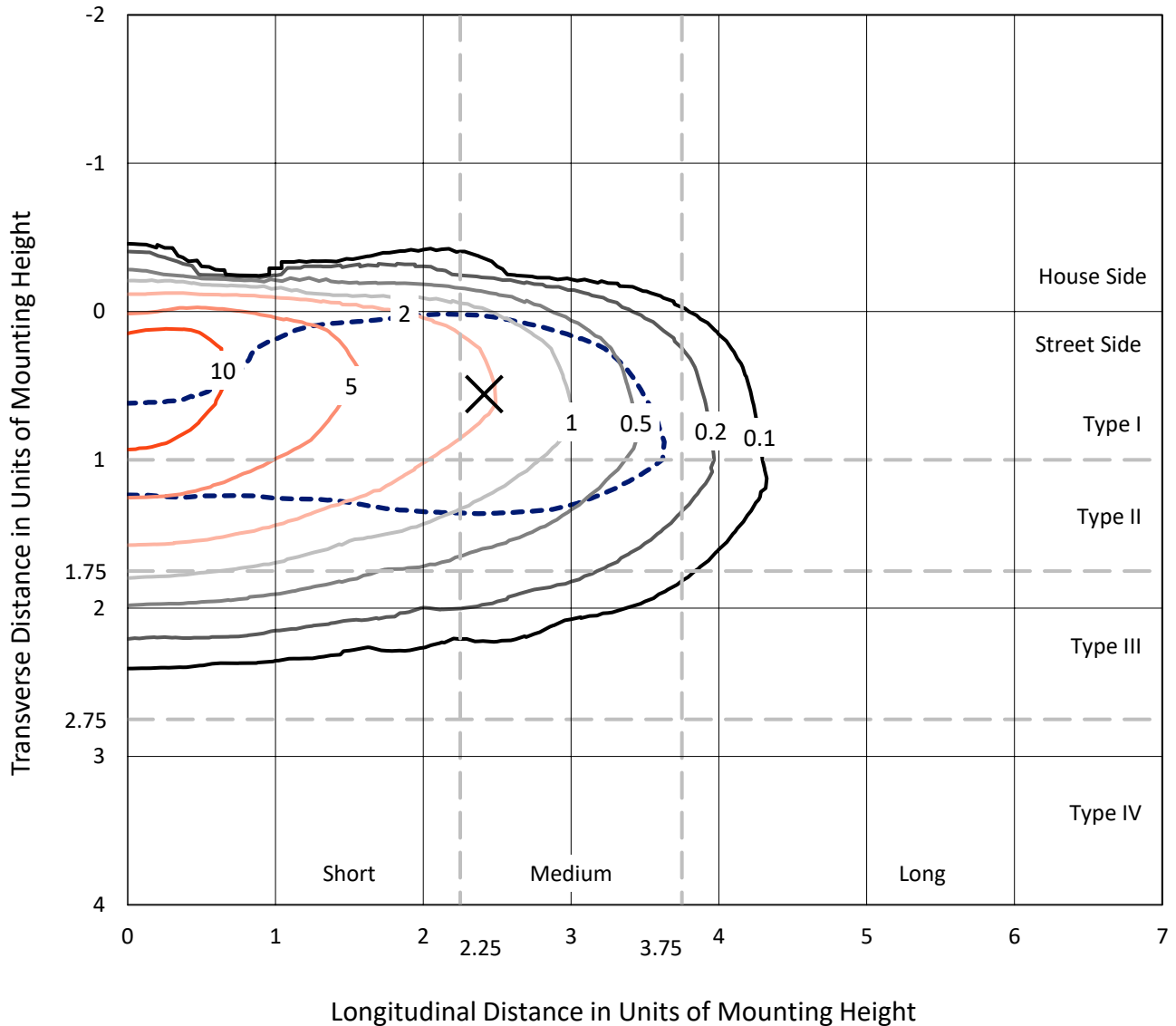
Lumens per Lamp: N/A
Luminaire Lumens: 28639.7 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 281
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

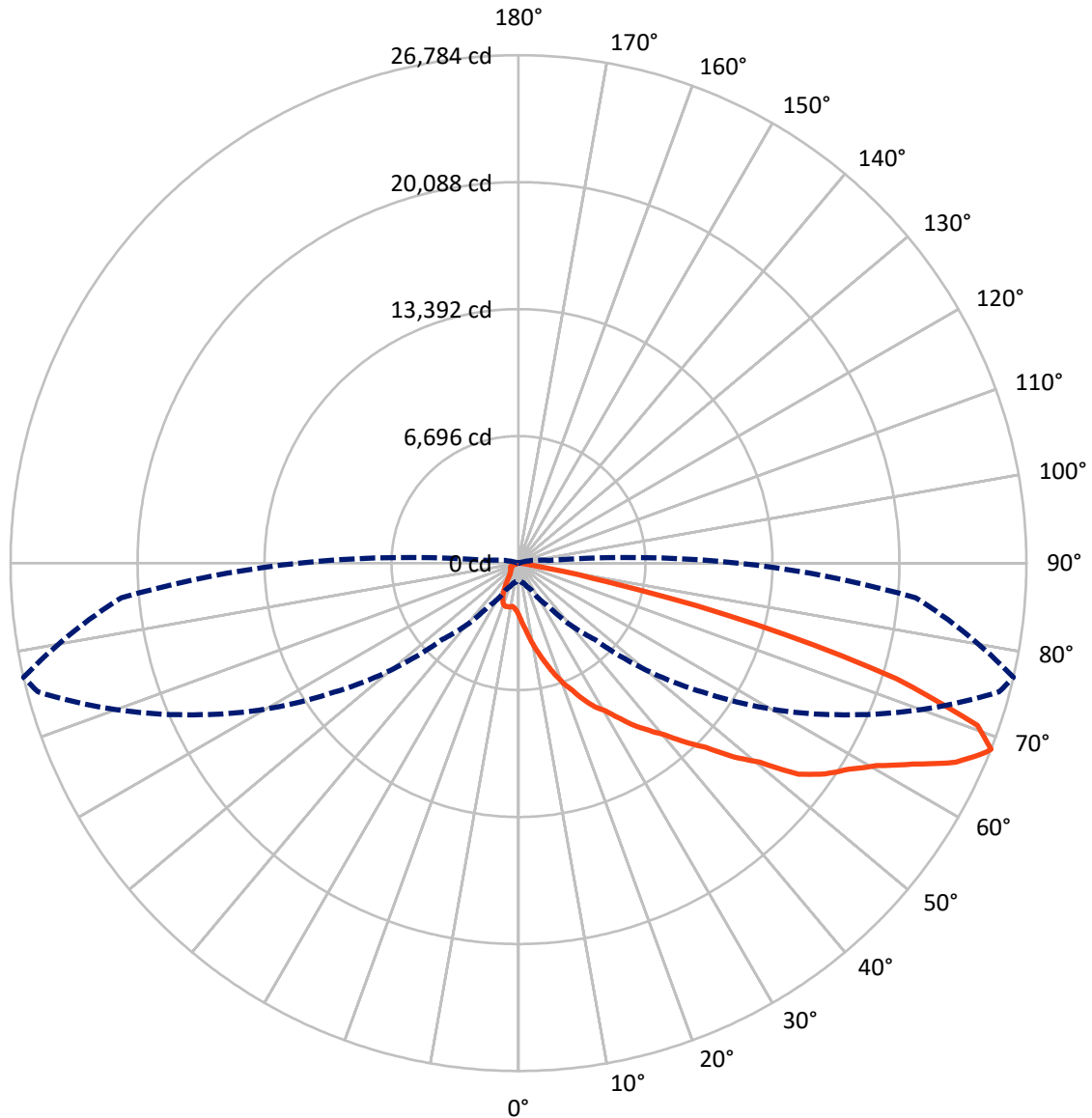
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	1298.8	0.0	1298.8
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	27340.9	0.0	27340.9
	% Fixture	95.5	0.0	95.5
Total	Lumens	28639.7	0.0	28639.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.4	1.1
10°-20°	1181.6	4.1
20°-30°	2289.9	8.0
30°-40°	3992.1	13.9
40°-50°	5846.7	20.4
50°-60°	6869.0	24.0
60°-70°	5800.3	20.3
70°-80°	2248.3	7.9
80°-90°	91.4	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°	28639.7	100.0
0°-180°	28639.7	100.0

Coefficient of Utilization



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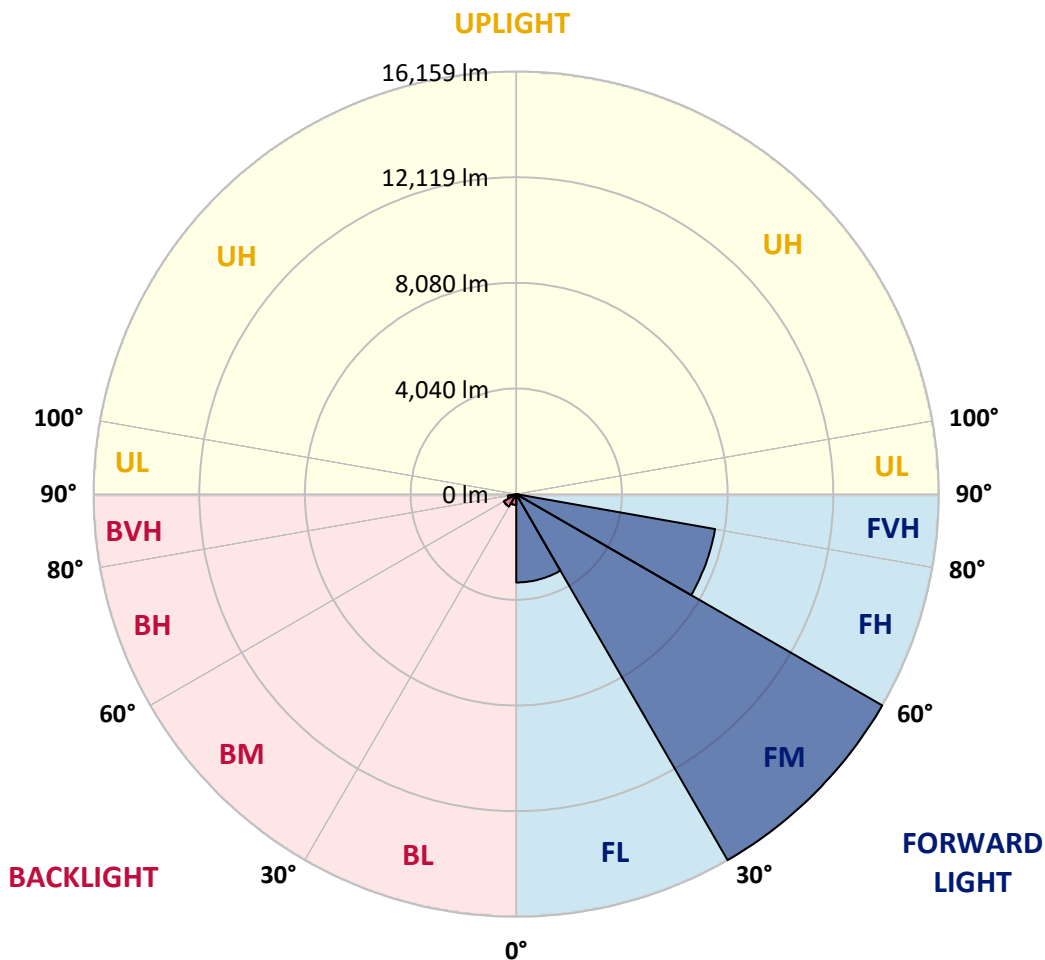
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3376.9	11.8			
FM (30°-60°)	16159.0	56.4			
FH (60°-80°)	7720.7	27.0			G4/12000
FVH (80°-90°)	84.3	0.3			G1/100
BL (0°-30°)	415.0	1.4	B1/500		
BM (30°-60°)	548.8	1.9	B1/1000		
BH (60°-80°)	327.9	1.1	B1/500		G1/500
BVH (80°-90°)	7.1	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3
2.5°	4166.7	4087.8	4004.9	3981.3	3827.4	3653.8	3492.0	3334.2	3069.8	3073.7	2892.2
5°	5370.2	5271.5	5204.4	5188.6	4948.0	4648.1	4403.4	3957.6	3519.6	3421.0	3089.5
7.5°	6360.5	6329.0	6230.3	6147.5	5969.9	5603.0	5314.9	4675.7	4008.9	3898.4	3330.2
10°	6960.3	7007.6	7051.0	6944.5	6806.4	6542.0	6147.5	5457.0	4565.2	4427.1	3641.9
12.5°	7599.5	7520.6	7548.2	7635.0	7453.5	7394.3	6905.0	6261.9	5216.3	4951.9	4036.5
15°	7765.2	7796.8	7863.9	8116.4	8238.7	8069.0	7646.8	6912.9	5891.0	5524.0	4403.4
17.5°	7875.7	7859.9	7942.8	8321.6	8507.0	8668.8	8404.4	7639.0	6478.9	6151.4	4861.2
20°	8013.8	7927.0	8108.5	8349.2	8779.3	9118.6	9106.8	8368.9	7094.4	6747.2	5314.9
22.5°	8526.7	8459.7	8605.7	8629.3	8929.2	9402.7	9517.1	8964.7	7725.8	7299.6	5804.2
25°	9473.7	9596.0	9422.4	9272.5	9363.2	9675.0	9757.8	9493.5	8361.0	7970.4	6293.5
27.5°	10858.7	10842.9	10499.6	10306.3	10089.3	10049.8	10109.0	9986.7	8862.1	8582.0	6695.9
30°	12346.2	12216.0	11900.4	11434.8	10957.3	10661.4	10578.5	10452.3	9450.0	9043.6	7094.4
32.5°	13529.9	13601.0	13249.8	12642.2	11849.1	11450.5	11052.0	10913.9	10097.2	9738.1	7552.1
35°	14619.0	14524.3	14244.1	13731.2	13020.9	12377.8	11754.4	11458.4	10874.5	10519.3	8057.2
37.5°	15423.9	15542.3	15009.6	14520.3	13814.0	13281.4	12669.8	12022.7	11675.4	11202.0	8672.7
40°	16185.4	16000.0	15640.9	15191.1	14536.1	14129.7	13727.2	12717.1	12527.7	11916.1	9367.2
42.5°	16051.3	16063.1	15865.8	15502.8	15029.3	14796.5	14658.4	13561.5	13301.1	12910.5	10045.9
45°	15502.8	15550.2	15617.2	15439.7	15479.1	15246.3	15617.2	14532.2	14275.7	13861.4	10827.1
47.5°	14899.1	14978.0	14962.2	15285.8	15652.8	15731.7	16658.9	15609.4	15498.9	15270.0	11908.2
50°	13896.9	13928.5	14232.3	14820.2	15321.3	16146.0	17440.2	16785.2	16954.8	16505.0	13194.6
52.5°	12184.4	12298.9	13080.1	13920.6	14930.7	16355.1	17968.9	18533.1	18963.2	18501.6	14429.6
55°	10018.2	10176.1	10945.5	12519.8	13999.5	16039.4	18450.3	19456.4	20328.5	19630.1	15179.3
57.5°	8061.1	8076.9	8767.4	10393.1	12677.7	15420.0	18694.9	19906.3	21078.1	20517.9	16094.7
60°	6143.5	6080.4	6699.9	8108.5	10452.3	13896.9	18083.3	20135.1	22013.3	21689.7	17195.5
62.5°	3953.6	3855.0	4529.7	5902.8	8163.7	11359.8	16860.2	20139.1	23473.2	23350.9	19038.2
65°	1957.1	1890.0	2470.0	3618.2	5650.3	8688.5	15116.1	20064.1	25256.7	25335.6	20833.5
67.5°	1033.8	1057.5	1242.9	1834.8	3259.2	6139.6	12488.3	19184.2	26168.2	26610.1	21267.5
68°	950.9	958.8	1104.8	1527.0	2829.1	5693.7	11864.8	18927.7	26239.2	26783.7	21026.9
70°	773.4	785.2	836.5	958.8	1530.9	3705.1	9154.1	16749.7	25169.9	25667.0	19034.3
72.5°	615.5	651.0	682.6	733.9	899.6	1945.3	5693.7	13052.5	20794.1	20849.3	14816.3
75°	469.5	497.2	560.3	603.7	702.3	1069.3	2710.7	7958.6	13644.4	12973.6	8728.0
77.5°	363.0	386.7	414.3	473.5	587.9	722.1	828.6	3377.6	5796.3	4770.4	2466.1
80°	217.0	232.8	323.6	370.9	512.9	489.3	327.5	939.1	1175.8	927.2	449.8
82.5°	126.3	138.1	185.4	284.1	359.1	264.4	193.3	292.0	288.0	252.5	149.9
85°	3.9	7.9	102.6	169.7	126.3	71.0	118.4	122.3	102.6	94.7	67.1
87.5°	0.0	3.9	27.6	23.7	27.6	15.8	23.7	31.6	39.5	35.5	27.6
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°	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3
2.5°	2769.9	2683.1	2489.8	2343.8	2185.9	2091.2	1996.5	1937.4	1905.8	1886.1	1901.8
5°	2840.9	2659.4	2347.7	2071.5	1890.0	1767.7	1645.4	1582.2	1523.1	1491.5	1511.2
7.5°	2998.8	2726.5	2209.6	1909.7	1696.7	1507.3	1353.4	1231.1	1160.0	1096.9	1108.8
10°	3192.1	2766.0	2213.6	1815.0	1507.3	1207.4	990.4	836.5	749.7	694.5	690.5
12.5°	3389.4	2919.8	2229.3	1720.3	1274.5	907.5	651.0	536.6	485.3	457.7	457.7
15°	3689.3	3057.9	2189.9	1546.7	966.7	591.9	445.9	406.4	386.7	363.0	367.0
17.5°	3949.7	3278.9	2170.2	1286.3	662.9	426.1	370.9	327.5	307.8	284.1	284.1
20°	4300.9	3417.0	2063.6	994.3	457.7	355.1	299.9	260.4	228.9	209.1	213.1
22.5°	4620.5	3523.5	1874.2	678.7	351.2	280.1	221.0	181.5	153.9	130.2	134.2
25°	4967.7	3630.1	1598.0	418.2	248.6	173.6	118.4	86.8	59.2	43.4	43.4
27.5°	5216.3	3661.6	1239.0	248.6	149.9	78.9	27.6	3.9	0.0	0.0	0.0
30°	5468.8	3673.5	856.2	134.2	59.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5756.8	3669.5	536.6	71.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	5977.8	3602.5	256.5	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6313.2	3503.8	78.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6695.9	3326.3	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7039.2	3144.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7429.8	2919.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8116.4	2825.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9012.1	2750.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9564.5	2529.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9852.5	2300.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10278.7	2189.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10910.0	2197.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11896.4	2308.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12440.9	2197.8	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11979.3	1759.8	75.0	19.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	11580.7	1617.8	75.0	19.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	9572.4	1053.5	71.0	19.7	7.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6972.1	584.0	59.2	15.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	4056.2	292.0	43.4	15.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1057.5	146.0	35.5	19.7	11.8	3.9	0.0	0.0	0.0	0.0	0.0
80°	209.1	94.7	31.6	23.7	15.8	7.9	0.0	0.0	0.0	0.0	0.0
82.5°	98.6	67.1	31.6	23.7	19.7	11.8	3.9	0.0	0.0	0.0	0.0
85°	51.3	31.6	31.6	23.7	23.7	15.8	7.9	0.0	0.0	0.0	0.0
87.5°	23.7	11.8	11.8	11.8	11.8	7.9	3.9	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)