

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: P481967

Luminaire Tested: **IFLD-L-SA7D-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481967
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

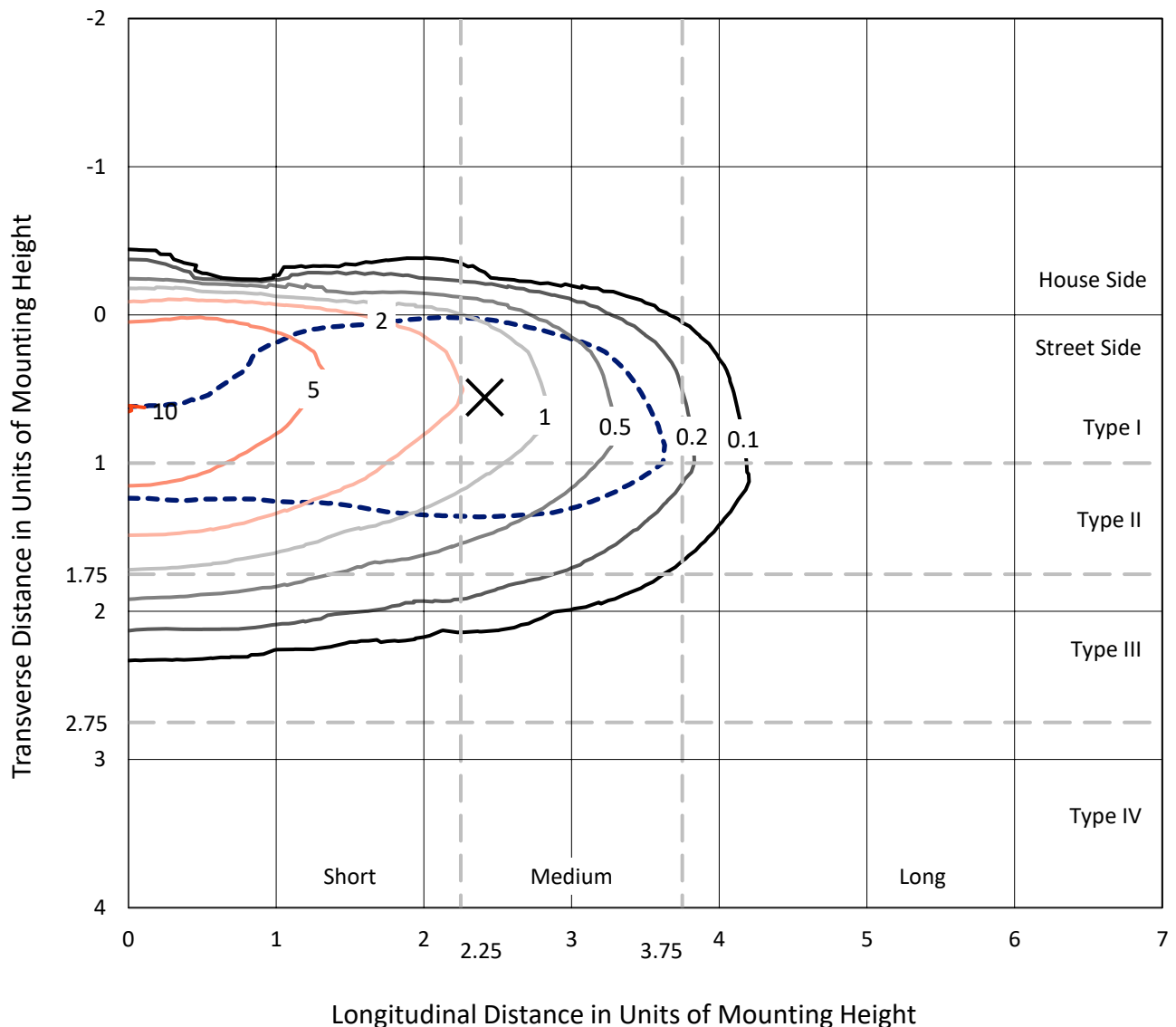
Lumens per Lamp: N/A
Luminaire Lumens: 32072.5 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 422.6
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

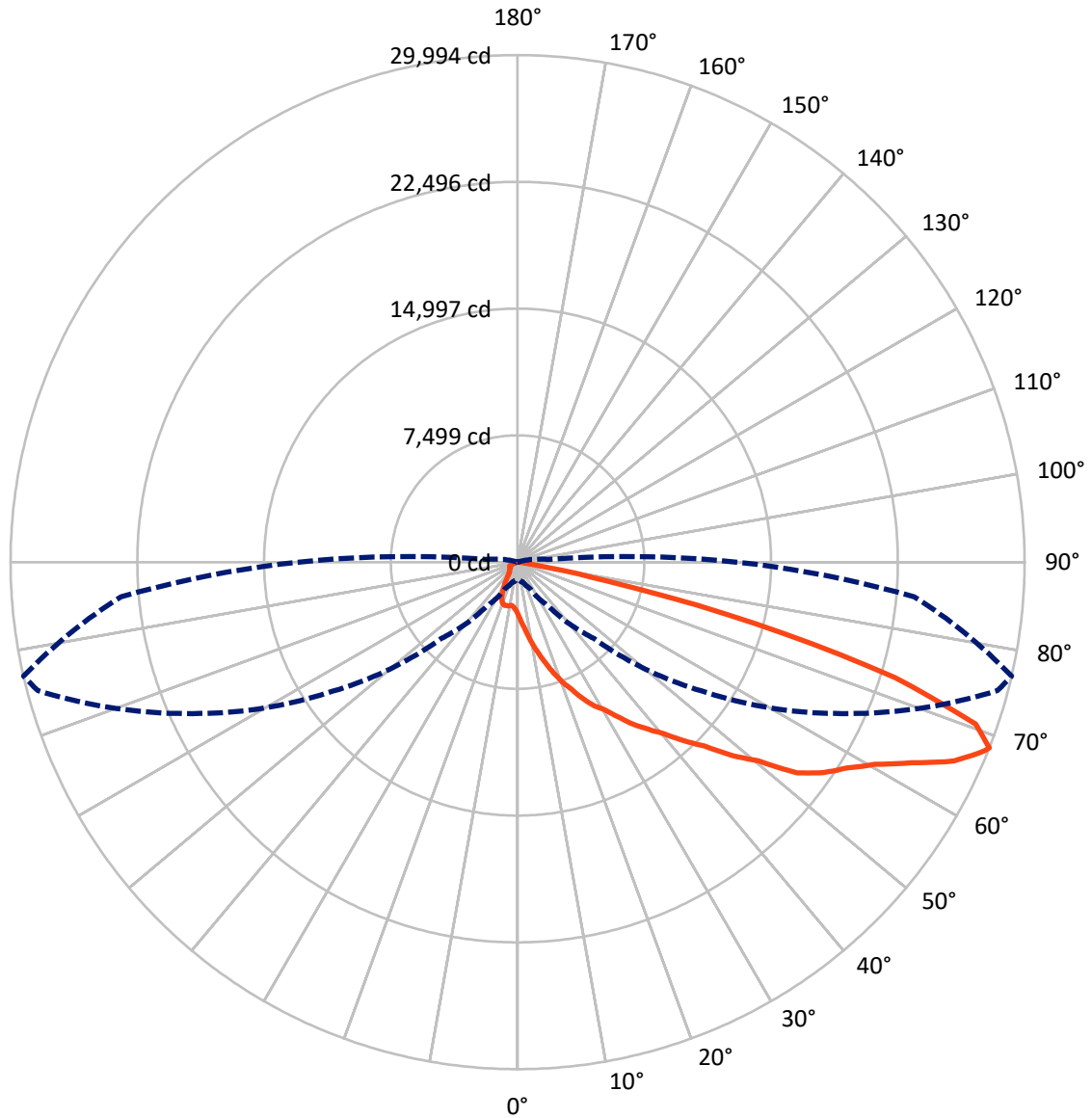
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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	1454.5	0.0	1454.5
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	30618.0	0.0	30618.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	32072.5	0.0	32072.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.8	1.1
10°-20°	1323.2	4.1
20°-30°	2564.4	8.0
30°-40°	4470.6	13.9
40°-50°	6547.6	20.4
50°-60°	7692.4	24.0
60°-70°	6495.5	20.3
70°-80°	2517.8	7.9
80°-90°	102.4	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°	32072.5	100.0
0°-180°	32072.5	100.0

Coefficient of Utilization



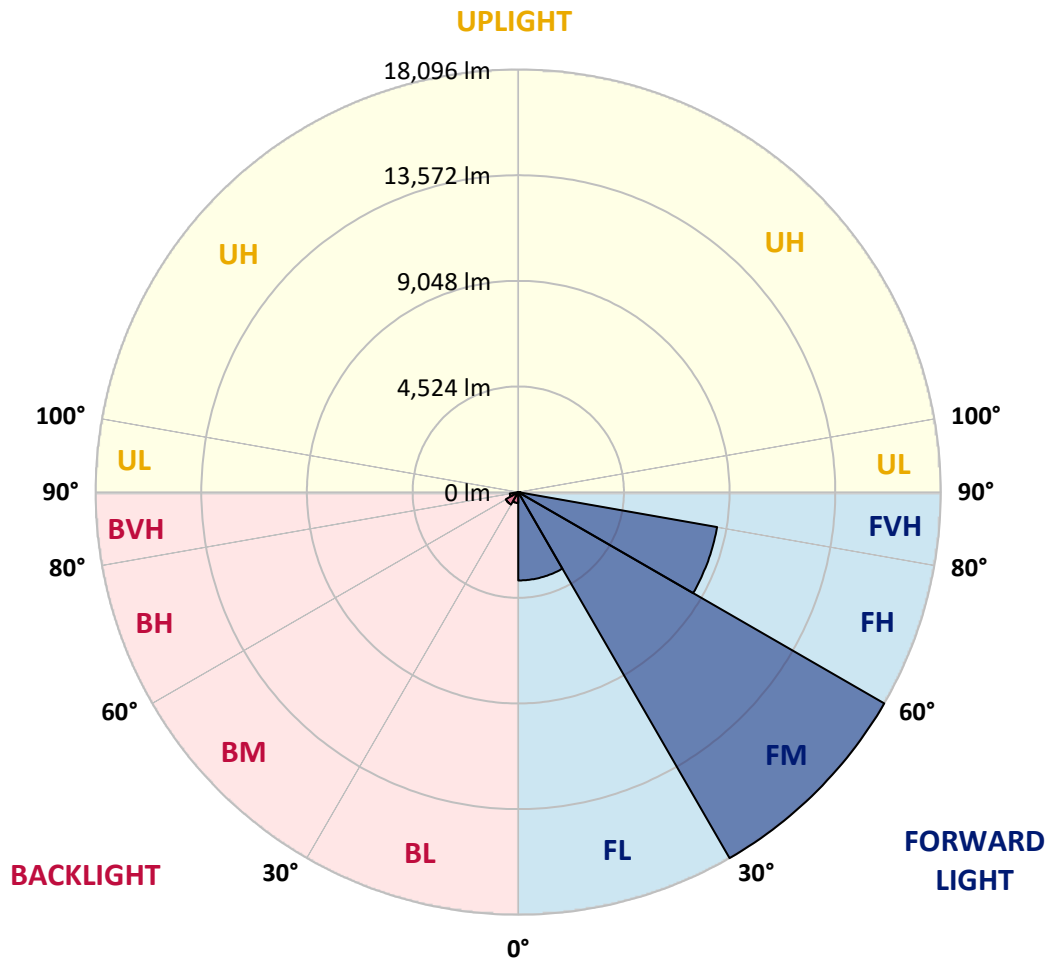
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3781.6	11.8			
FM (30°-60°)	18095.9	56.4			
FH (60°-80°)	8646.1	27.0			G4/12000
FVH (80°-90°)	94.5	0.3			G1/100
BL (0°-30°)	464.7	1.4	B1/500		
BM (30°-60°)	614.6	1.9	B1/1000		
BH (60°-80°)	367.2	1.1	B1/500		G1/500
BVH (80°-90°)	7.9	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°	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0
2.5°	4666.1	4577.8	4485.0	4458.5	4286.1	4091.7	3910.5	3733.8	3437.7	3442.2	3238.9
5°	6013.8	5903.4	5828.3	5810.6	5541.0	5205.2	4931.3	4431.9	3941.5	3831.0	3459.8
7.5°	7122.9	7087.6	6977.1	6884.3	6685.5	6274.5	5952.0	5236.1	4489.4	4365.7	3729.4
10°	7794.6	7847.6	7896.2	7776.9	7622.2	7326.2	6884.3	6111.1	5112.4	4957.8	4078.5
12.5°	8510.4	8422.0	8453.0	8550.2	8346.9	8280.6	7732.7	7012.5	5841.5	5545.5	4520.3
15°	8696.0	8731.3	8806.5	9089.2	9226.2	9036.2	8563.4	7741.5	6597.1	6186.2	4931.3
17.5°	8819.7	8802.0	8894.8	9319.0	9526.7	9707.9	9411.8	8554.6	7255.5	6888.7	5443.8
20°	8974.4	8877.2	9080.4	9350.0	9831.6	10211.6	10198.3	9372.0	7944.8	7556.0	5952.0
22.5°	9548.8	9473.7	9637.2	9663.7	9999.5	10529.7	10657.9	10039.3	8651.8	8174.6	6499.9
25°	10609.3	10746.3	10551.8	10383.9	10485.6	10834.6	10927.4	10631.4	9363.2	8925.8	7047.8
27.5°	12160.2	12142.6	11758.1	11541.6	11298.6	11254.4	11320.7	11183.7	9924.4	9610.7	7498.5
30°	13826.1	13680.3	13326.8	12805.4	12270.7	11939.3	11846.5	11705.1	10582.8	10127.6	7944.8
32.5°	15151.7	15231.2	14838.0	14157.5	13269.3	12823.0	12376.8	12222.1	11307.4	10905.3	8457.4
35°	16371.3	16265.2	15951.5	15377.0	14581.7	13861.4	13163.3	12831.9	12177.9	11780.2	9023.0
37.5°	17272.7	17405.2	16808.7	16260.8	15469.8	14873.3	14188.4	13463.8	13074.9	12544.7	9712.3
40°	18125.5	17917.8	17515.7	17012.0	16278.5	15823.3	15372.6	14241.4	14029.3	13344.4	10490.0
42.5°	17975.2	17988.5	17767.6	17361.0	16830.8	16570.1	16415.4	15187.0	14895.4	14458.0	11250.0
45°	17361.0	17414.1	17489.2	17290.3	17334.5	17073.8	17489.2	16274.0	15986.8	15522.9	12124.9
47.5°	16685.0	16773.4	16755.7	17118.0	17528.9	17617.3	18655.7	17480.3	17356.6	17100.3	13335.6
50°	15562.6	15598.0	15938.2	16596.6	17157.8	18081.3	19530.6	18797.1	18987.1	18483.4	14776.1
52.5°	13644.9	13773.1	14648.0	15589.1	16720.3	18315.5	20122.7	20754.6	21236.2	20719.2	16159.2
55°	11219.1	11395.8	12257.4	14020.5	15677.5	17962.0	20661.8	21788.6	22765.1	21983.0	16998.7
57.5°	9027.4	9045.1	9818.3	11638.8	14197.3	17268.2	20935.8	22292.3	23604.6	22977.2	18023.8
60°	6879.9	6809.2	7502.9	9080.4	11705.1	15562.6	20250.9	22548.6	24651.9	24289.5	19256.7
62.5°	4427.5	4317.1	5072.7	6610.4	9142.3	12721.4	18881.1	22553.0	26286.8	26149.8	21320.2
65°	2191.7	2116.6	2766.1	4051.9	6327.6	9730.0	16928.0	22469.0	28284.0	28372.4	23330.7
67.5°	1157.7	1184.2	1391.9	2054.7	3649.8	6875.5	13985.2	21483.7	29304.8	29799.7	23816.7
68°	1064.9	1073.7	1237.2	1710.0	3168.2	6376.2	13287.0	21196.5	29384.3	29994.1	23547.2
70°	866.1	879.3	936.8	1073.7	1714.5	4149.2	10251.4	18757.3	28186.8	28743.6	21315.8
72.5°	689.3	729.1	764.4	821.9	1007.5	2178.4	6376.2	14617.0	23286.5	23348.4	16592.2
75°	525.8	556.8	627.5	676.1	786.5	1197.5	3035.6	8912.5	15279.8	14528.7	9774.1
77.5°	406.5	433.0	464.0	530.2	658.4	808.6	927.9	3782.4	6491.1	5342.2	2761.7
80°	243.0	260.7	362.3	415.4	574.4	547.9	366.8	1051.6	1316.8	1038.4	503.7
82.5°	141.4	154.7	207.7	318.1	402.1	296.1	216.5	327.0	322.6	282.8	167.9
85°	4.4	8.8	114.9	190.0	141.4	79.5	132.6	137.0	114.9	106.0	75.1
87.5°	0.0	4.4	30.9	26.5	30.9	17.7	26.5	35.3	44.2	39.8	30.9
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°	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0	3071.0
2.5°	3101.9	3004.7	2788.2	2624.7	2448.0	2341.9	2235.9	2169.6	2134.2	2112.1	2129.8
5°	3181.5	2978.2	2629.1	2319.8	2116.6	1979.6	1842.6	1771.9	1705.6	1670.3	1692.4
7.5°	3358.2	3053.3	2474.5	2138.6	1900.0	1687.9	1515.6	1378.6	1299.1	1228.4	1241.7
10°	3574.7	3097.5	2478.9	2032.6	1687.9	1352.1	1109.1	936.8	839.6	777.7	773.3
12.5°	3795.7	3269.8	2496.6	1926.5	1427.2	1016.3	729.1	600.9	543.5	512.6	512.6
15°	4131.5	3424.5	2452.4	1732.1	1082.6	662.8	499.3	455.1	433.0	406.5	410.9
17.5°	4423.1	3671.9	2430.3	1440.5	742.3	477.2	415.4	366.8	344.7	318.1	318.1
20°	4816.4	3826.6	2311.0	1113.5	512.6	397.7	335.8	291.6	256.3	234.2	238.6
22.5°	5174.3	3945.9	2098.9	760.0	393.3	313.7	247.4	203.3	172.3	145.8	150.2
25°	5563.1	4065.2	1789.6	468.4	278.4	194.4	132.6	97.2	66.3	48.6	48.6
27.5°	5841.5	4100.5	1387.5	278.4	167.9	88.4	30.9	4.4	0.0	0.0	0.0
30°	6124.3	4113.8	958.9	150.2	66.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6446.9	4109.4	600.9	79.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	6694.3	4034.3	287.2	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7069.9	3923.8	88.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7498.5	3725.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7882.9	3521.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8320.4	3269.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9089.2	3163.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10092.3	3079.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10710.9	2832.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11033.5	2576.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11510.7	2452.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12217.7	2461.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13322.4	2584.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13932.1	2461.2	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13415.1	1970.7	84.0	22.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	12968.9	1811.7	84.0	22.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	10719.7	1179.8	79.5	22.1	8.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7807.8	654.0	66.3	17.7	8.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	4542.4	327.0	48.6	17.7	8.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1184.2	163.5	39.8	22.1	13.3	4.4	0.0	0.0	0.0	0.0	0.0
80°	234.2	106.0	35.3	26.5	17.7	8.8	0.0	0.0	0.0	0.0	0.0
82.5°	110.5	75.1	35.3	26.5	22.1	13.3	4.4	0.0	0.0	0.0	0.0
85°	57.4	35.3	35.3	26.5	26.5	17.7	8.8	0.0	0.0	0.0	0.0
87.5°	26.5	13.3	13.3	13.3	13.3	8.8	4.4	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)