

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: P481645

Luminaire Tested: **IFLD-S-SA6D-735-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481645
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2
distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

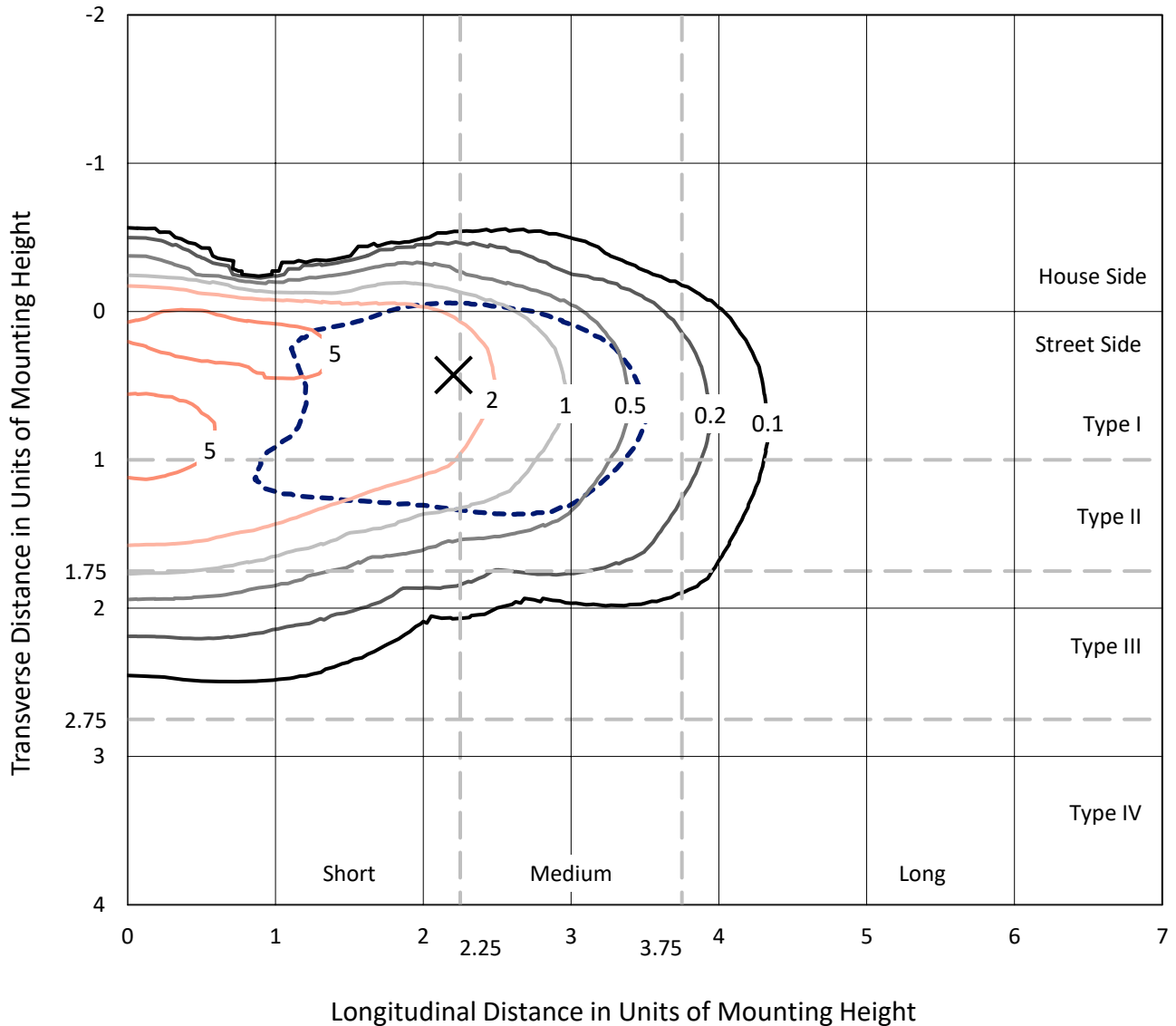
Lumens per Lamp: N/A
Luminaire Lumens: 32474.9 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

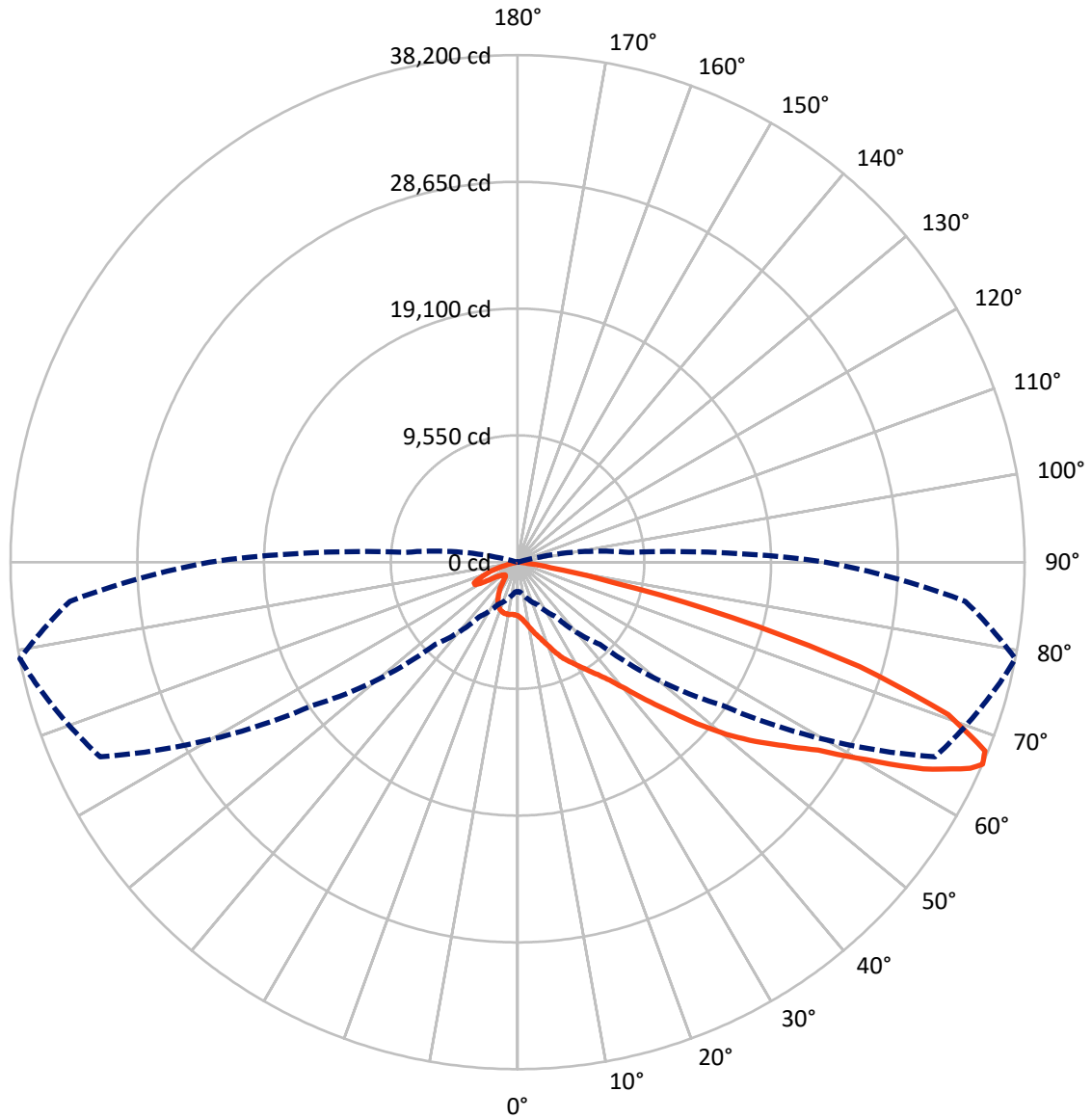
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2438.4	0.0	2438.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	30036.5	0.0	30036.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	32474.9	0.0	32474.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.1	1.2
10°-20°	1051.6	3.2
20°-30°	1747.0	5.4
30°-40°	3000.6	9.2
40°-50°	5436.0	16.7
50°-60°	8592.7	26.5
60°-70°	8743.7	26.9
70°-80°	3334.4	10.3
80°-90°	186.9	0.6
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°	32474.9	100.0
0°-180°	32474.9	100.0



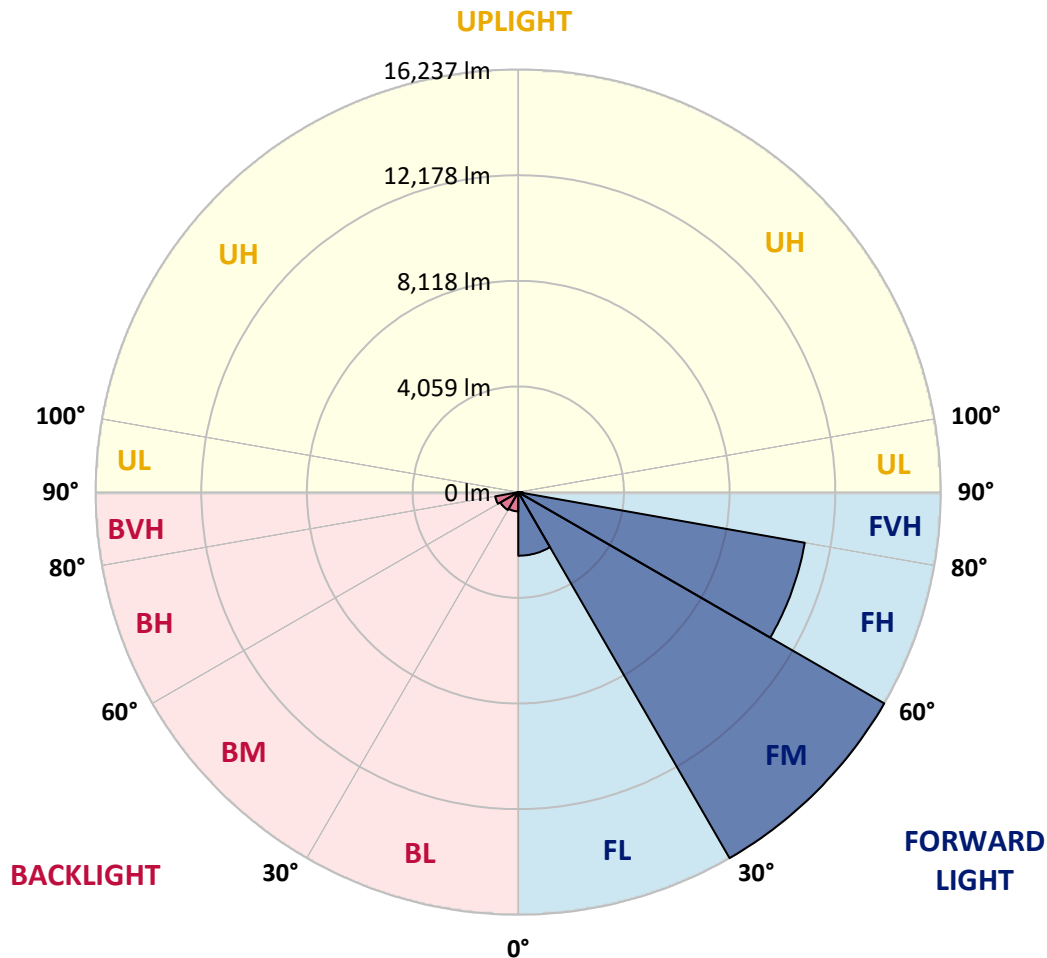
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2443.2	7.5			
FM (30°-60°)	16236.7	50.0			
FH (60°-80°)	11179.2	34.4			G4/12000
FVH (80°-90°)	177.4	0.5			G2/225
BL (0°-30°)	737.4	2.3	B2/1000		
BM (30°-60°)	792.5	2.4	B1/1000		
BH (60°-80°)	898.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3
2.5°	4576.0	4571.0	4550.9	4515.9	4470.8	4455.8	4390.7	4300.6	4250.5	4195.5	4170.4
5°	4891.4	4866.4	4926.4	4901.4	4911.4	4791.3	4711.2	4646.1	4455.8	4380.7	4260.6
7.5°	4961.5	4986.5	4981.5	5021.6	5061.6	5106.7	5051.6	4956.5	4766.2	4656.1	4525.9
10°	4961.5	4951.5	4991.5	5046.6	5161.7	5261.9	5412.1	5286.9	5141.7	5011.5	4776.2
12.5°	4871.4	4856.3	4896.4	5011.5	5216.8	5422.1	5587.3	5707.5	5502.2	5397.0	5091.6
15°	4596.0	4581.0	4746.2	4951.5	5221.8	5557.3	5902.7	6098.0	5957.8	5792.6	5452.1
17.5°	4255.6	4275.6	4450.8	4791.3	5221.8	5622.3	6062.9	6488.5	6468.4	6258.2	5902.7
20°	4140.4	4155.4	4330.7	4576.0	5066.6	5667.4	6313.2	6914.0	7034.2	6783.9	6318.2
22.5°	4360.7	4345.7	4360.7	4510.9	4961.5	5627.3	6478.5	7399.7	7614.9	7419.7	6864.0
25°	5111.7	5101.7	4976.5	4746.2	4901.4	5537.2	6563.6	7720.1	8215.7	8035.5	7304.5
27.5°	6213.1	6173.1	5977.8	5497.2	5181.8	5592.3	6703.8	8030.5	8741.4	8536.1	7700.1
30°	7394.7	7299.5	7044.2	6443.4	5907.7	5797.6	6783.9	8260.8	9327.2	9066.8	8045.5
32.5°	8210.7	8335.9	8255.8	7645.0	6823.9	6273.2	6914.0	8551.2	9867.9	9697.7	8636.3
35°	9472.4	9617.6	9282.1	8741.4	7915.3	7029.2	7189.4	8786.5	10699.0	10413.6	9187.0
37.5°	11064.4	11174.6	10934.3	9907.9	9036.8	7960.4	7755.1	9277.1	11414.9	11279.7	9892.9
40°	11865.5	12396.2	12055.7	11129.5	10193.3	9262.1	8691.3	9852.9	12661.5	12551.4	10869.2
42.5°	12971.9	13237.3	13062.1	12376.2	11399.9	10653.9	9847.9	10974.3	14173.5	14173.5	12190.9
45°	14143.5	14153.5	14143.5	13582.7	12716.6	12331.1	11409.9	12381.2	15800.6	15980.9	13773.0
47.5°	15104.7	15405.1	15380.1	15044.6	14373.8	14228.6	12971.9	13983.3	17843.3	18158.7	15315.0
50°	15600.4	15935.8	16035.9	16211.2	16181.1	16486.5	14679.2	15840.7	19605.6	20381.6	17297.6
52.5°	15465.2	15490.2	16106.0	16796.9	17898.4	18754.5	16736.8	17948.4	21668.3	22434.3	18829.6
55°	14358.7	14263.6	15530.3	16321.3	18599.3	20141.3	19585.6	20576.9	23275.4	24441.9	20411.6
57.5°	11930.6	11955.6	13127.1	14734.2	18078.6	20692.0	22629.5	24011.3	25528.3	26704.9	22634.5
60°	8235.8	8205.7	9517.4	11374.8	15019.6	19665.7	24381.8	28462.2	28542.3	30209.4	26624.8
62.5°	4631.0	4641.1	5637.4	7224.4	10508.7	16071.0	24296.7	33188.3	32847.9	34309.8	31160.7
65°	2623.4	2688.5	3374.4	4280.6	6293.2	10789.1	20897.3	35070.8	36167.2	37468.9	33914.3
66°	2217.9	2263.0	2848.7	3534.6	5021.6	8751.4	18809.6	34705.3	37208.6	38199.9	33859.2
67.5°	1717.2	1777.3	2268.0	2803.7	3684.8	6057.9	15139.8	32887.9	37398.8	37979.6	32903.0
70°	1176.5	1216.6	1592.1	2127.8	2518.3	3099.0	9051.8	27190.5	33934.3	34424.9	28597.3
72.5°	826.1	846.1	1116.5	1612.1	1937.5	1772.3	4490.9	19345.3	25968.9	26925.2	22244.0
75°	595.8	615.8	766.0	1156.5	1512.0	1161.5	2057.7	12356.1	15925.8	16676.8	13397.5
77.5°	430.6	455.6	520.7	746.0	1096.4	816.1	1011.3	6453.4	7509.8	7379.6	5762.5
80°	260.3	285.4	385.5	480.6	801.0	575.8	555.7	2693.5	2663.5	2528.3	1812.4
82.5°	120.2	140.2	205.3	325.4	560.7	400.5	265.3	961.3	841.1	771.0	510.7
85°	35.0	45.1	120.2	245.3	285.4	195.3	160.2	330.4	345.5	295.4	170.2
87.5°	0.0	5.0	55.1	60.1	85.1	65.1	60.1	85.1	160.2	130.2	55.1
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°	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3	4040.3
2.5°	4080.3	4045.3	3960.2	3830.0	3714.8	3654.8	3569.7	3494.6	3454.5	3449.5	3444.5
5°	4180.5	4085.3	3880.1	3644.8	3469.5	3279.3	3149.1	3054.0	2963.9	2878.8	2928.8
7.5°	4315.6	4165.4	3830.0	3524.6	3144.1	2898.8	2668.5	2533.3	2453.2	2378.1	2368.1
10°	4525.9	4335.7	3795.0	3244.2	2808.7	2448.2	2212.9	2017.6	1907.5	1777.3	1827.4
12.5°	4811.3	4470.8	3664.8	2988.9	2428.2	2047.7	1712.2	1396.8	1221.6	1086.4	1091.4
15°	5096.7	4651.1	3544.6	2678.5	2082.7	1582.1	1091.4	876.1	826.1	796.0	806.1
17.5°	5377.0	4796.3	3359.4	2363.1	1687.2	1006.3	796.0	751.0	725.9	695.9	695.9
20°	5717.5	4891.4	3129.1	2072.7	1161.5	746.0	680.9	650.8	610.8	570.7	575.8
22.5°	6047.9	4971.5	2863.7	1702.2	781.0	645.8	570.7	530.7	495.6	455.6	455.6
25°	6378.3	4996.5	2518.3	1221.6	630.8	515.7	445.6	390.5	355.5	320.4	325.4
27.5°	6603.6	4841.3	2192.9	781.0	505.7	390.5	310.4	265.3	235.3	200.3	200.3
30°	6733.8	4555.9	1842.4	550.7	380.5	265.3	185.2	140.2	110.1	85.1	80.1
32.5°	6864.0	4325.6	1446.9	420.5	250.3	140.2	70.1	25.0	0.0	0.0	0.0
35°	7124.3	4065.3	971.3	235.3	85.1	5.0	0.0	0.0	0.0	0.0	0.0
37.5°	7289.5	3704.8	445.6	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7705.1	3524.6	110.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8380.9	3399.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9121.9	3349.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10108.2	3484.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11149.6	3850.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12291.0	4195.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13287.3	4611.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	15119.7	5592.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	18409.0	7519.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	22113.9	8951.7	55.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	23470.6	8916.6	95.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	23230.3	8426.0	95.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	21983.7	7484.8	85.1	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	18879.6	6183.1	85.1	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14393.8	4816.3	80.1	20.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	8686.3	2563.3	65.1	25.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3459.5	901.2	50.1	20.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	936.2	270.4	30.0	20.0	15.0	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	245.3	100.1	25.0	20.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0
85°	95.1	40.1	20.0	15.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0
87.5°	30.0	15.0	15.0	10.0	10.0	5.0	5.0	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)