

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: P482825

Luminaire Tested: **IFLD-L-SA7D-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482825
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

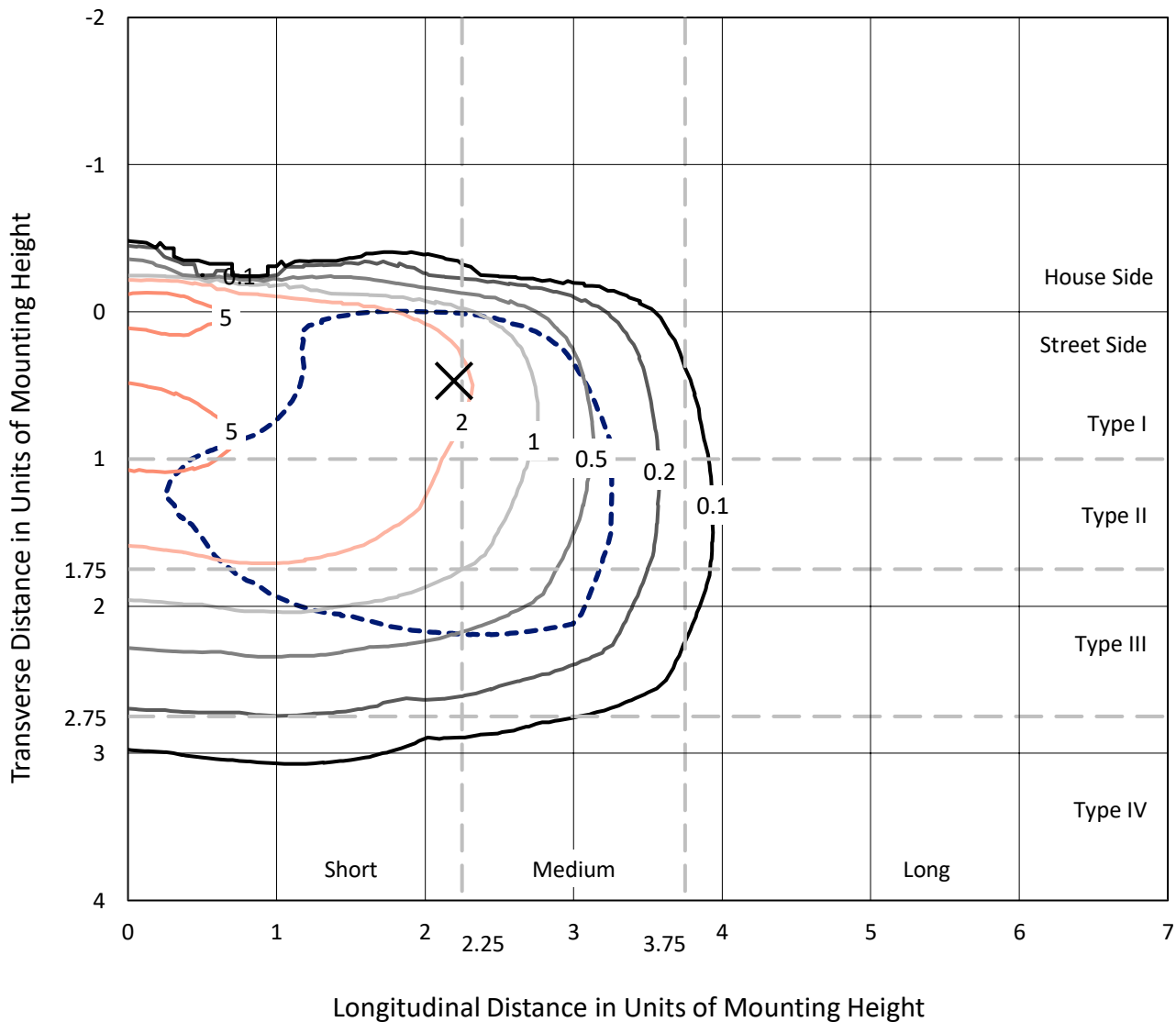
Lumens per Lamp: N/A
Luminaire Lumens: 34486.8 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

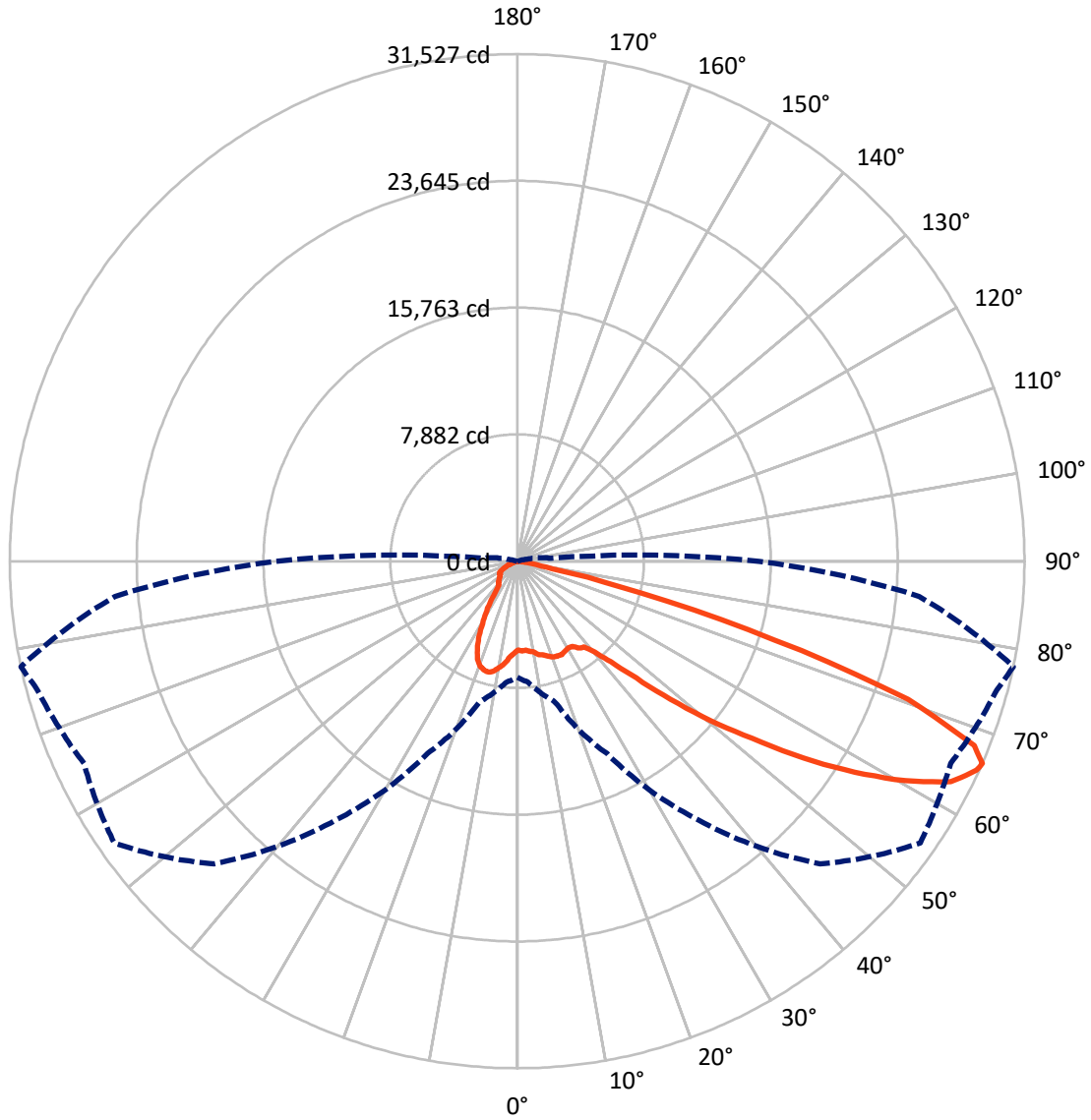
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2424.6	0.0	2424.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	32062.2	0.0	32062.2
	% Fixture	93.0	0.0	93.0
Total	Lumens	34486.8	0.0	34486.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.3	1.5
10°-20°	1140.7	3.3
20°-30°	1630.4	4.7
30°-40°	2790.9	8.1
40°-50°	5037.2	14.6
50°-60°	8614.4	25.0
60°-70°	10602.8	30.7
70°-80°	4008.4	11.6
80°-90°	156.6	0.5
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°	34486.8	100.0
0°-180°	34486.8	100.0

Coefficient of Utilization

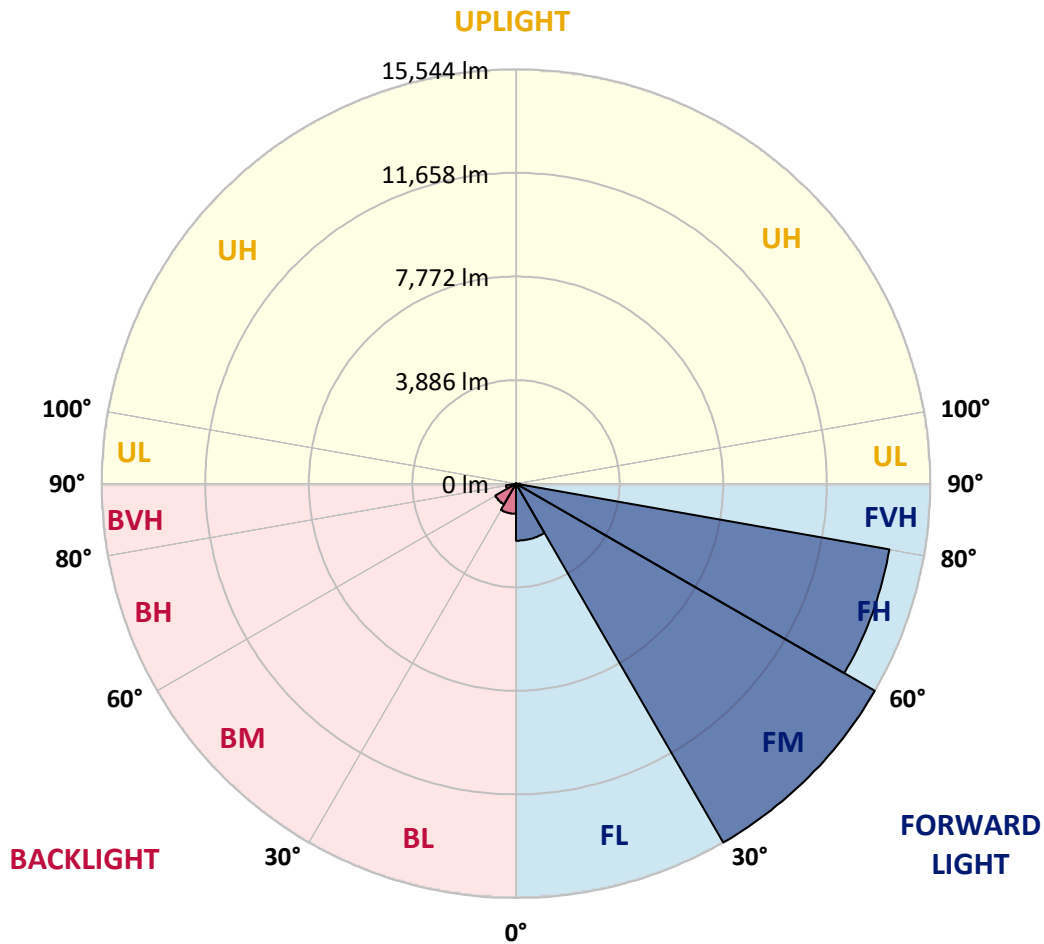


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2141.0	6.2			
FM (30°-60°)	15543.9	45.1			
FH (60°-80°)	14227.0	41.3			G5
FVH (80°-90°)	150.3	0.4			G2/225
BL (0°-30°)	1135.5	3.3	B3/2500		
BM (30°-60°)	898.6	2.6	B1/1000		
BH (60°-80°)	384.1	1.1	B1/500		G1/500
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7
2.5°	5080.7	5033.8	5080.7	5148.5	5184.9	5216.2	5325.6	5419.4	5518.4	5586.2	5565.3
5°	4710.7	4799.3	4809.8	4830.6	4887.9	5075.5	5138.0	5299.6	5544.5	5565.3	5659.1
7.5°	4418.9	4392.9	4460.6	4596.1	4742.0	4851.4	5033.8	5315.2	5570.6	5659.1	5841.5
10°	3996.8	4048.9	4121.9	4257.4	4434.6	4705.5	5028.6	5341.3	5706.0	5737.3	6076.0
12.5°	3767.6	3715.4	3830.1	3970.8	4273.0	4523.1	4919.2	5294.4	5789.4	5961.4	6352.2
15°	3580.0	3606.0	3715.4	3809.2	4059.4	4377.2	4841.0	5409.0	5930.1	6050.0	6644.0
17.5°	3501.8	3486.2	3569.5	3663.3	3970.8	4330.3	4809.8	5414.2	6055.2	6211.5	6842.0
20°	3538.3	3569.5	3543.5	3632.1	3824.9	4189.6	4856.6	5513.2	6149.0	6362.6	7055.7
22.5°	4111.5	4069.8	3861.3	3694.6	3705.0	4132.3	4820.2	5575.8	6232.4	6404.3	7201.6
25°	5607.0	5383.0	4867.1	4226.1	3804.0	3976.0	4778.5	5554.9	6216.7	6430.4	7290.2
27.5°	7113.0	6920.2	6414.7	5419.4	4205.3	3913.5	4632.6	5570.6	6138.6	6336.6	7144.3
30°	8702.4	8806.6	8056.2	6873.3	5257.9	4257.4	4538.8	5487.2	6086.4	6253.2	7175.5
32.5°	10333.4	10291.7	9838.4	8556.5	6763.9	5018.2	4689.9	5570.6	6154.2	6315.7	7357.9
35°	11610.1	11464.2	11005.6	9848.8	8009.3	6164.6	5211.0	5966.6	6451.2	6644.0	7618.5
37.5°	12240.6	12303.2	12037.4	11031.7	9374.6	7227.7	5862.4	5966.6	6545.0	6769.1	8040.6
40°	12730.5	12918.1	12819.1	12496.0	10729.4	8426.2	6581.5	6336.6	7019.2	7441.3	8832.6
42.5°	13319.3	13230.7	13814.4	13517.3	12501.2	9937.4	7842.6	7217.2	8139.6	8546.0	10020.7
45°	13632.0	13970.7	14413.6	14794.0	14142.6	11823.8	9489.2	8775.3	9854.0	10369.9	11787.3
47.5°	14434.5	14569.9	15289.1	15768.5	15476.7	13981.1	11990.5	11052.5	12011.3	12824.3	13809.1
50°	14903.5	14721.1	15726.8	16456.3	16623.1	15768.5	14231.2	13501.7	14575.2	15612.1	15700.7
52.5°	14491.8	15012.9	16018.6	17326.6	17790.3	17363.0	16862.8	16544.9	17300.5	18259.3	17832.0
55°	13048.3	13402.7	15851.9	18280.2	19775.7	19577.7	20041.5	19833.1	20593.9	21610.0	20322.9
57.5°	11886.3	12329.2	14481.4	18775.2	21625.6	22209.3	22792.9	22662.6	23579.8	24752.2	22433.3
60°	11162.0	11417.3	13491.3	18650.2	22719.9	24929.4	26247.8	25330.7	26826.2	27722.5	24085.2
62.5°	9906.1	10067.6	12047.8	16993.1	23048.2	26852.3	29087.8	27842.4	29139.9	30234.2	25273.3
65°	7941.6	8379.3	10015.5	14512.6	20880.5	27206.6	30859.5	29395.2	30651.1	31370.2	25632.9
66°	7227.7	7545.5	9046.3	13199.5	19645.5	26617.8	30562.5	29718.3	30869.9	31526.5	25080.5
67.5°	5997.9	6274.0	7467.4	11328.7	17118.1	25320.2	30770.9	29499.5	31036.7	30635.5	24340.6
70°	3970.8	4148.0	5106.8	7660.2	11922.8	20713.7	28540.6	27790.3	27284.8	25778.8	19030.6
72.5°	1855.1	2110.5	3189.1	4643.0	6993.2	14491.8	23272.3	22266.6	19134.8	16727.3	12006.1
75°	839.0	953.6	1750.9	2662.8	3137.0	7509.0	15012.9	13559.0	9525.7	7910.3	5257.9
77.5°	453.4	515.9	854.6	1266.3	1141.2	2631.6	7430.9	6180.2	3001.5	2199.0	1526.8
80°	349.1	411.7	713.9	724.3	422.1	682.6	2761.8	1912.4	750.4	568.0	364.8
82.5°	182.4	260.5	562.8	469.0	213.7	276.2	854.6	531.5	234.5	187.6	156.3
85°	73.0	114.6	317.9	312.7	125.1	93.8	239.7	161.5	93.8	78.2	73.0
87.5°	5.2	5.2	172.0	119.9	78.2	26.1	36.5	36.5	46.9	41.7	52.1
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°	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7	5523.7
2.5°	5659.1	5721.7	5732.1	5904.1	5940.5	5904.1	5997.9	5982.2	6023.9	5992.6	5935.3
5°	5789.4	5878.0	6050.0	6180.2	6180.2	6076.0	5992.6	5883.2	5721.7	5680.0	5648.7
7.5°	6013.5	6294.9	6451.2	6367.8	6201.1	5810.3	5268.3	4872.3	4538.8	4413.7	4356.4
10°	6409.5	6565.9	6748.2	6409.5	5716.5	4887.9	3976.0	3376.7	2907.7	2803.5	2725.4
12.5°	6664.9	6915.0	7019.2	6180.2	4820.2	3585.2	2595.1	1917.6	1589.4	1339.2	1297.5
15°	6998.4	7285.0	7071.3	5560.1	3798.8	2350.2	1344.4	839.0	682.6	641.0	641.0
17.5°	7227.7	7540.3	6857.7	4788.9	2694.1	1250.6	667.0	578.4	568.0	573.2	562.8
20°	7628.9	7816.5	6534.6	3892.6	1610.2	641.0	536.7	515.9	505.5	521.1	510.7
22.5°	7780.0	7952.0	6008.3	2819.1	724.3	427.3	401.2	385.6	396.0	390.8	385.6
25°	7769.6	7858.2	5143.3	1615.4	213.7	166.8	151.1	151.1	140.7	145.9	140.7
27.5°	7847.8	7628.9	4174.0	479.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	7889.5	7258.9	2970.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7910.3	7066.1	1912.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	8071.8	6680.5	818.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8181.3	6185.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8634.6	6029.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9223.5	5737.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10041.6	5304.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11125.5	5049.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11933.2	4648.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12959.8	4408.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14179.1	4418.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	15289.1	4346.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	15857.1	3715.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15737.2	3006.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15320.3	2360.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	15033.7	2089.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14163.5	1672.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11271.4	1146.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7170.3	703.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3303.8	323.1	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1037.0	198.0	41.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	271.0	125.1	41.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	140.7	88.6	36.5	15.6	10.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	88.6	36.5	15.6	10.4	10.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	78.2	20.8	10.4	10.4	5.2	0.0	0.0	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)