

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: P483254

Luminaire Tested: **IFLD-L-SA7D-740-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483254  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-740-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT  
distribution lens with House Side Shield  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

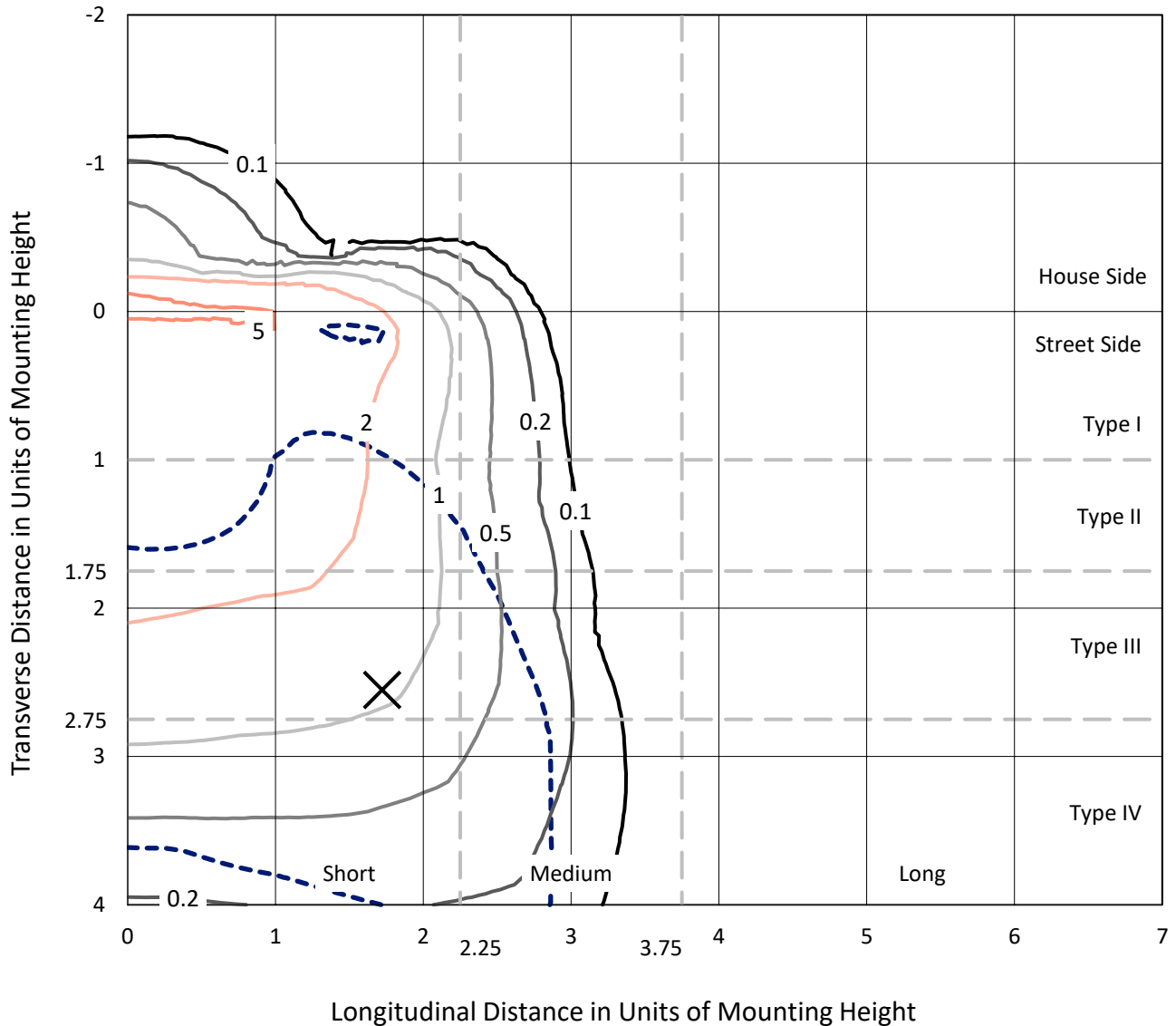
Lumens per Lamp: N/A  
Luminaire Lumens: 35271.6 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

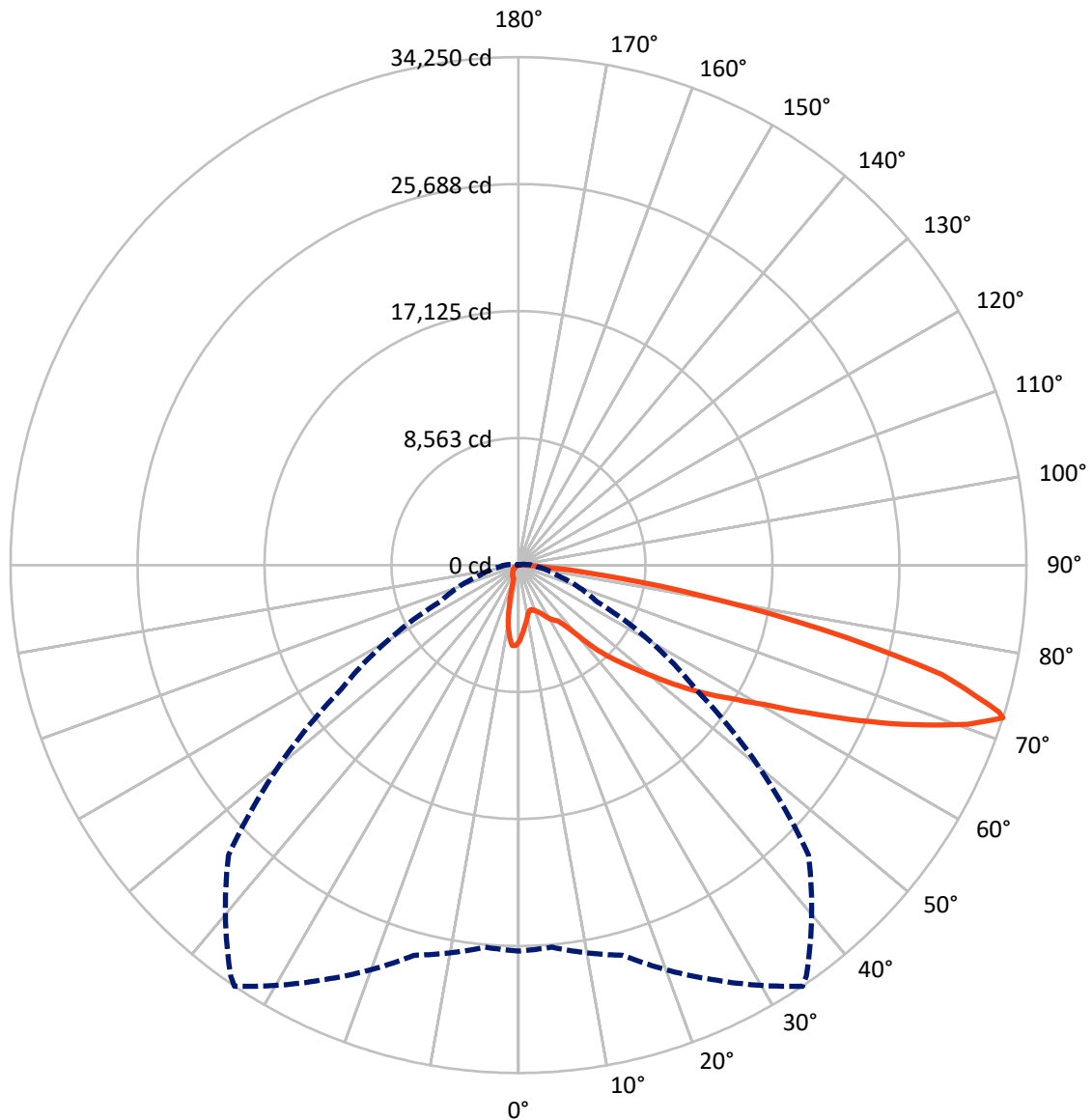
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3611.0	0.0	3611.0
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	31660.6	0.0	31660.6
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	35271.6	0.0	35271.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.0	1.3
10°-20°	1014.2	2.9
20°-30°	1530.8	4.3
30°-40°	2484.2	7.0
40°-50°	4671.3	13.2
50°-60°	7637.7	21.7
60°-70°	10153.2	28.8
70°-80°	6799.5	19.3
80°-90°	532.9	1.5
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°	35271.6	100.0
0°-180°	35271.6	100.0

**Coefficient of Utilization**



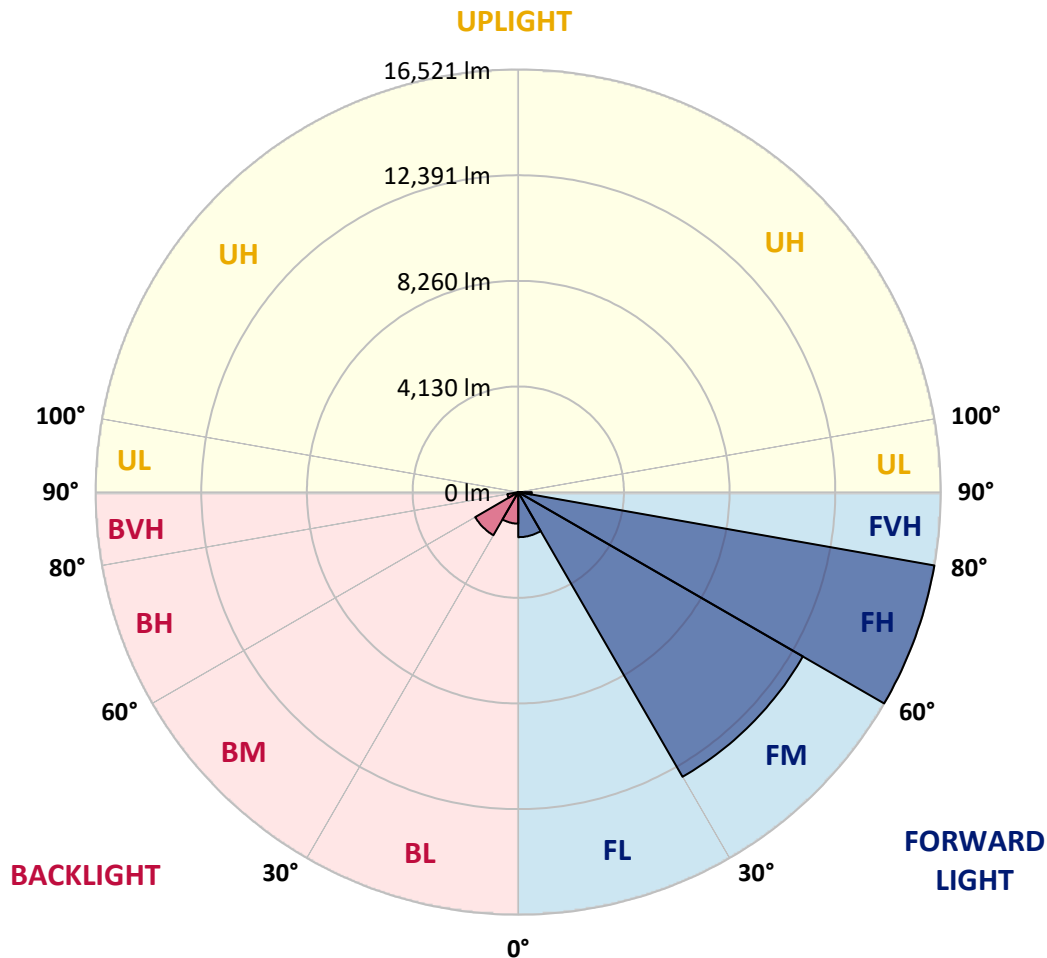
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.8	5.0			
FM (30°-60°)	12849.4	36.4			
FH (60°-80°)	16520.9	46.8			G5
FVH (80°-90°)	529.5	1.5			G4/750
BL (0°-30°)	1232.1	3.5	B3/2500		
BM (30°-60°)	1943.7	5.5	B2/2500		
BH (60°-80°)	431.8	1.2	B1/500		G1/500
BVH (80°-90°)	3.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3
2.5°	4563.7	4553.5	4584.1	4635.1	4686.0	4665.6	4762.5	4864.5	4935.9	5032.8	5150.1
5°	3987.5	4013.0	4043.6	4145.5	4211.8	4227.1	4405.6	4538.2	4757.4	4981.8	5190.8
7.5°	3462.3	3492.9	3554.0	3666.2	3803.9	3839.6	4018.1	4283.2	4568.8	4864.5	5206.1
10°	3079.8	3110.4	3176.7	3248.1	3431.7	3431.7	3676.4	4043.6	4415.8	4762.5	5211.2
12.5°	2998.3	3013.5	3008.4	3064.5	3181.8	3207.3	3447.0	3849.8	4283.2	4726.8	5292.8
15°	3095.1	3105.3	3054.3	3023.7	3125.7	3151.2	3375.6	3732.5	4196.5	4747.2	5425.4
17.5°	3288.9	3253.2	3151.2	3105.3	3192.0	3207.3	3416.4	3727.4	4186.3	4803.3	5578.4
20°	3401.1	3441.9	3263.4	3176.7	3299.1	3319.5	3543.9	3809.0	4237.3	4900.2	5792.5
22.5°	3599.9	3620.3	3380.7	3324.6	3441.9	3441.9	3696.8	3972.2	4359.7	5058.3	6047.5
25°	3880.4	3854.9	3574.4	3518.4	3630.5	3676.4	3931.4	4232.2	4548.4	5206.1	6282.0
27.5°	4099.6	4114.9	3885.5	3737.6	3926.3	3956.9	4232.2	4512.7	4691.1	5328.5	6567.6
30°	4426.0	4395.4	4150.6	3982.4	4216.9	4222.0	4487.2	4777.8	4966.5	5547.8	6995.9
32.5°	4813.5	4752.3	4471.9	4232.2	4420.9	4466.8	4737.0	5160.3	5394.8	5960.8	7658.8
35°	5634.5	5486.6	5027.7	4655.4	4670.7	4691.1	5109.3	5716.1	5986.3	6486.0	8546.0
37.5°	6832.7	6771.6	6251.5	5542.7	5272.4	5211.2	5680.4	6450.3	6786.9	7179.5	9698.4
40°	8020.8	7934.1	7449.7	6914.3	6424.8	6302.4	6537.0	7424.2	7730.2	8143.2	10881.4
42.5°	9341.5	9188.5	8617.4	8184.0	7878.1	7745.5	7653.7	8648.0	8994.8	9275.2	12038.9
45°	10677.4	10427.6	9601.5	9270.1	9106.9	9035.5	9025.3	10187.9	10397.0	10453.1	13323.9
47.5°	11850.2	11580.0	10830.4	10458.2	10335.8	10315.4	10886.5	11962.4	11799.2	11651.4	14756.7
50°	12752.8	12579.4	12038.9	11906.3	11814.5	11778.8	13114.8	13787.9	13033.2	12773.2	16016.2
52.5°	14149.9	13762.4	13150.5	13196.4	13517.6	13522.7	15373.7	15521.6	14058.1	13543.1	17204.2
55°	15266.6	15011.6	14511.9	14445.7	15292.1	15383.9	17398.0	16837.1	14629.2	14277.4	17642.8
57.5°	16582.2	16464.9	16102.8	16113.0	17000.3	17194.0	19198.0	17948.7	15103.4	14751.6	17709.1
60°	18484.1	18147.6	17958.9	18045.6	19090.9	19279.6	20941.9	18749.3	15332.9	15062.6	17545.9
62.5°	20584.9	20192.3	19988.3	20432.0	21956.6	21987.2	22267.6	19458.0	15190.1	15144.2	16495.5
65°	23114.1	22726.5	22563.4	23455.7	25265.9	25153.7	24128.8	19758.9	14736.3	14323.3	13736.9
67.5°	25633.0	25398.4	25061.9	26484.5	28738.3	28738.3	26061.3	19646.7	13548.2	11498.4	8984.6
70°	26826.2	26989.4	27524.8	29758.1	32149.6	31904.9	27968.4	18356.6	10086.0	6175.0	3533.7
72°	26030.7	25862.5	27244.3	30829.0	34250.4	33847.6	27647.1	14593.5	5828.2	2707.6	1228.9
72.5°	24664.2	24822.3	26724.2	30681.1	33857.8	34189.2	26861.9	13461.5	4793.1	2156.9	928.0
75°	15123.8	15394.1	19947.5	26051.1	29503.2	29131.0	20778.7	6414.6	1840.8	917.8	331.4
77.5°	5522.3	5746.6	9678.0	16393.5	20982.7	20748.1	12023.6	2279.3	999.4	683.3	168.3
80°	1437.9	1555.2	3288.9	7561.9	12339.7	12355.0	5032.8	912.7	678.2	560.9	102.0
82.5°	285.5	316.1	1009.6	2942.2	5767.0	5690.6	1590.9	489.5	509.9	458.9	71.4
85°	35.7	45.9	214.2	999.4	1866.3	1672.5	392.6	244.8	377.3	356.9	45.9
87.5°	5.1	5.1	51.0	229.5	392.6	382.4	81.6	76.5	168.3	219.3	25.5
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°	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3	5160.3
2.5°	5216.3	5236.7	5308.1	5369.3	5440.7	5461.1	5430.5	5481.5	5410.1	5450.9	5461.1
5°	5226.5	5343.8	5476.4	5563.1	5542.7	5491.7	5450.9	5313.2	5216.3	5180.7	5257.1
7.5°	5297.9	5430.5	5573.3	5573.3	5461.1	5195.9	4941.0	4696.2	4492.3	4390.3	4477.0
10°	5389.7	5527.4	5675.3	5481.5	5063.4	4579.0	4216.9	3758.0	3447.0	3283.8	3299.1
12.5°	5512.1	5705.9	5756.8	5308.1	4614.7	3895.7	3237.9	2600.5	2304.8	2070.2	2075.3
15°	5670.2	5858.8	5705.9	4930.8	4043.6	2983.0	2192.6	1585.8	1351.3	1228.9	1228.9
17.5°	5879.2	6022.0	5690.6	4584.1	3273.6	2039.6	1346.2	1070.8	1019.8	999.4	999.4
20°	6124.0	6231.1	5542.7	4043.6	2432.3	1310.5	989.2	958.6	963.7	953.5	953.5
22.5°	6399.3	6435.0	5374.4	3416.4	1647.0	968.8	922.9	928.0	933.1	922.9	928.0
25°	6690.0	6593.1	5129.7	2682.1	1096.3	882.1	892.3	902.5	907.6	912.7	912.7
27.5°	7016.3	6822.5	4788.0	1963.1	856.6	831.1	861.7	892.3	897.4	897.4	892.3
30°	7495.6	7174.4	4456.6	1330.9	754.7	775.1	826.0	861.7	887.2	887.2	882.1
32.5°	8102.4	7541.5	3992.6	907.6	698.6	708.8	749.6	820.9	877.0	882.1	866.8
35°	8943.8	7985.1	3508.2	724.1	657.8	662.9	688.4	744.5	841.3	871.9	866.8
37.5°	9831.0	8489.9	2906.5	652.7	627.2	622.1	637.4	683.3	770.0	846.4	851.5
40°	10774.3	9020.2	2274.2	617.0	601.7	591.5	596.6	617.0	683.3	780.2	800.6
42.5°	11661.6	9499.6	1708.2	581.3	576.2	566.0	566.0	571.1	606.8	673.1	683.3
45°	12620.2	9892.2	1300.3	555.8	540.5	545.6	525.2	515.0	540.5	545.6	540.5
47.5°	13517.6	10284.8	1040.2	525.2	509.9	509.9	484.4	464.0	464.0	418.1	413.0
50°	14359.0	10499.0	831.1	484.4	479.3	474.2	438.5	402.8	372.2	316.1	305.9
52.5°	15057.5	10488.8	642.5	433.4	448.7	433.4	377.3	326.3	280.4	229.5	219.3
55°	15266.6	9999.3	484.4	356.9	382.4	362.0	300.8	255.0	204.0	163.2	158.1
57.5°	15088.1	9254.8	367.1	275.3	295.7	275.3	229.5	188.7	142.8	112.2	102.0
60°	14491.5	8382.9	285.5	214.2	224.4	209.1	173.4	142.8	102.0	71.4	61.2
62.5°	13359.6	7291.7	219.3	168.3	163.2	163.2	132.6	107.1	71.4	40.8	35.7
65°	10963.0	5685.5	168.3	117.3	117.3	117.3	102.0	76.5	45.9	20.4	10.2
67.5°	6883.7	3309.3	137.7	91.8	86.7	86.7	71.4	51.0	25.5	5.1	0.0
70°	2590.3	1213.6	107.1	71.4	66.3	66.3	51.0	30.6	15.3	0.0	0.0
72°	892.3	464.0	86.7	51.0	51.0	45.9	35.7	25.5	10.2	0.0	0.0
72.5°	734.3	372.2	81.6	51.0	45.9	45.9	35.7	25.5	10.2	0.0	0.0
75°	265.2	153.0	56.1	35.7	30.6	30.6	25.5	15.3	5.1	0.0	0.0
77.5°	132.6	96.9	45.9	30.6	25.5	15.3	15.3	10.2	5.1	0.0	0.0
80°	81.6	61.2	25.5	20.4	15.3	10.2	5.1	5.1	0.0	0.0	0.0
82.5°	56.1	35.7	15.3	15.3	10.2	5.1	0.0	0.0	0.0	0.0	0.0
85°	35.7	15.3	10.2	10.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.3	10.2	5.1	0.0	0.0	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)