

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: P483215

Luminaire Tested: **IFLD-L-SA7D-735-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483215  
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-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

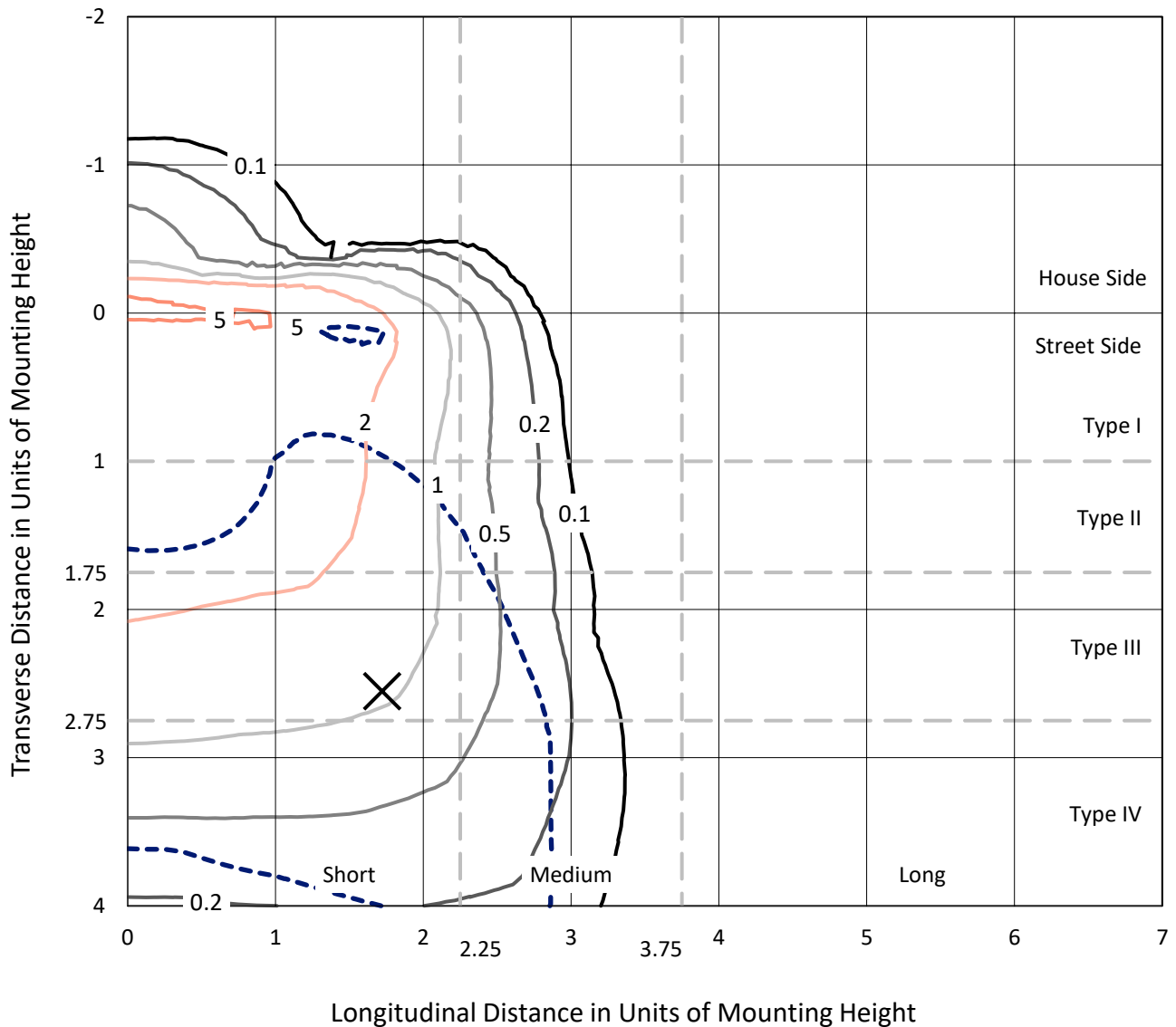
Lumens per Lamp: N/A  
Luminaire Lumens: 34788.3 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P483215  
 CATALOG NUMBER: IFLD-L-SA7D-735-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

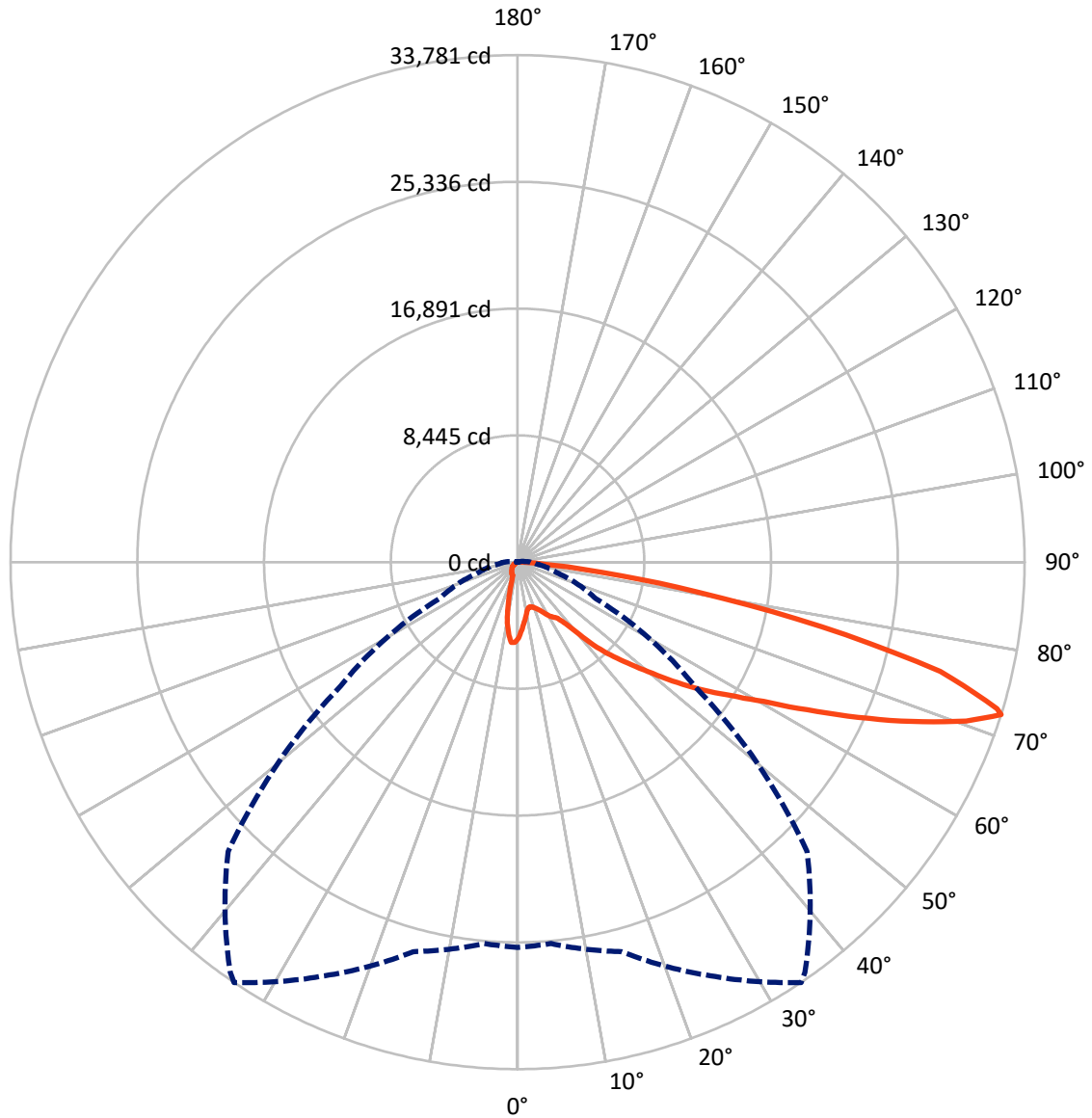
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P483215  
CATALOG NUMBER: IFLD-L-SA7D-735-U-T4FT-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-L-SA7D-735-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3561.5	0.0	3561.5
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	31226.8	0.0	31226.8
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	34788.3	0.0	34788.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.8	1.3
10°-20°	1000.3	2.9
20°-30°	1509.8	4.3
30°-40°	2450.1	7.0
40°-50°	4607.3	13.2
50°-60°	7533.0	21.7
60°-70°	10014.1	28.8
70°-80°	6706.4	19.3
80°-90°	525.6	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°	34788.3	100.0
0°-180°	34788.3	100.0



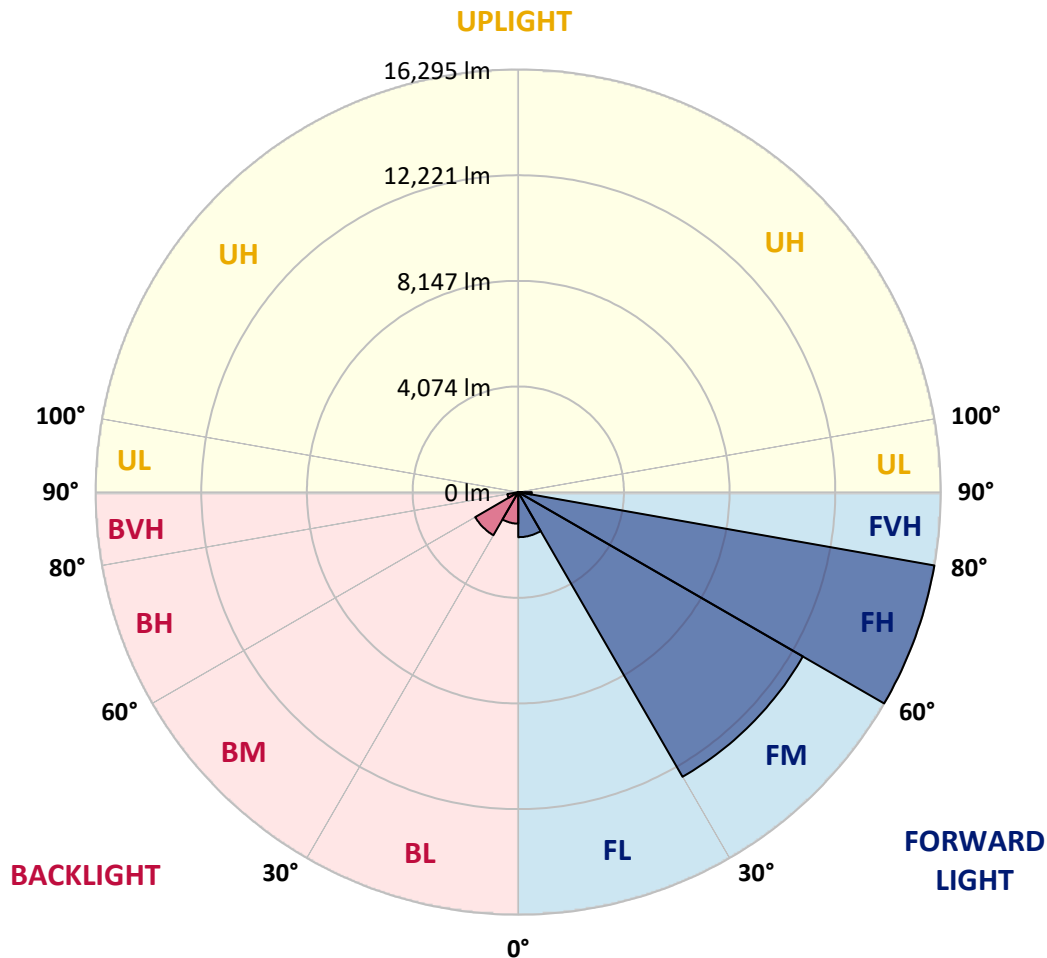
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 CATALOG NUMBER: IFLD-L-SA7D-735-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.7	5.0			
FM (30°-60°)	12673.3	36.4			
FH (60°-80°)	16294.6	46.8			G5
FVH (80°-90°)	522.2	1.5			G4/750
BL (0°-30°)	1215.2	3.5	B3/2500		
BM (30°-60°)	1917.1	5.5	B2/2500		
BH (60°-80°)	425.9	1.2	B1/500		G1/500
BVH (80°-90°)	3.3	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 IV Short





REPORT NUMBER: P483215

CATALOG NUMBER: IFLD-L-SA7D-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6
2.5°	4501.1	4491.1	4521.3	4571.6	4621.8	4601.7	4697.3	4797.9	4868.3	4963.8	5079.5
5°	3932.8	3958.0	3988.2	4088.7	4154.1	4169.2	4345.2	4476.0	4692.3	4913.5	5119.7
7.5°	3414.8	3445.0	3505.4	3616.0	3751.8	3787.0	3963.0	4224.5	4506.2	4797.9	5134.8
10°	3037.6	3067.8	3133.2	3203.6	3384.7	3384.7	3626.1	3988.2	4355.3	4697.3	5139.9
12.5°	2957.2	2972.3	2967.2	3022.6	3138.2	3163.4	3399.7	3797.1	4224.5	4662.1	5220.3
15°	3052.7	3062.8	3012.5	2982.3	3082.9	3108.1	3329.3	3681.4	4139.0	4682.2	5351.1
17.5°	3243.8	3208.6	3108.1	3062.8	3148.3	3163.4	3369.6	3676.4	4129.0	4737.5	5502.0
20°	3354.5	3394.7	3218.7	3133.2	3253.9	3274.0	3495.3	3756.8	4179.3	4833.1	5713.2
22.5°	3550.6	3570.7	3334.4	3279.0	3394.7	3394.7	3646.2	3917.8	4300.0	4989.0	5964.6
25°	3827.2	3802.1	3525.5	3470.2	3580.8	3626.1	3877.5	4174.2	4486.1	5134.8	6196.0
27.5°	4043.5	4058.6	3832.3	3686.4	3872.5	3902.7	4174.2	4450.8	4626.9	5255.5	6477.6
30°	4365.4	4335.2	4093.8	3927.8	4159.2	4164.2	4425.7	4712.4	4898.4	5471.8	6900.1
32.5°	4747.6	4687.2	4410.6	4174.2	4360.3	4405.6	4672.1	5089.6	5320.9	5879.1	7553.9
35°	5557.3	5411.4	4958.8	4591.7	4606.8	4626.9	5039.3	5637.7	5904.3	6397.2	8429.0
37.5°	6739.1	6678.8	6165.8	5466.7	5200.2	5139.9	5602.5	6361.9	6693.9	7081.1	9565.6
40°	7910.9	7825.4	7347.7	6819.6	6336.8	6216.1	6447.4	7322.5	7624.3	8031.6	10732.3
42.5°	9213.5	9062.6	8499.4	8071.9	7770.1	7639.4	7548.8	8529.5	8871.5	9148.1	11874.0
45°	10531.2	10284.7	9470.0	9143.1	8982.2	8911.8	8901.7	10048.4	10254.6	10309.9	13141.3
47.5°	11687.9	11421.3	10682.0	10314.9	10194.2	10174.1	10737.4	11798.5	11637.6	11491.7	14554.5
50°	12578.1	12407.1	11874.0	11743.2	11652.7	11617.5	12935.1	13599.0	12854.7	12598.2	15796.7
52.5°	13956.1	13573.8	12970.3	13015.6	13332.4	13337.5	15163.1	15308.9	13865.5	13357.6	16968.5
55°	15057.5	14806.0	14313.1	14247.7	15082.6	15173.1	17159.7	16606.4	14428.8	14081.8	17401.1
57.5°	16355.0	16239.3	15882.2	15892.3	16767.4	16958.5	18935.0	17702.8	14896.5	14549.5	17466.4
60°	18230.9	17899.0	17712.9	17798.4	18829.4	19015.4	20655.0	18492.4	15122.8	14856.3	17305.5
62.5°	20302.9	19915.7	19714.5	20152.0	21655.8	21685.9	21962.6	19191.5	14982.0	14936.7	16269.5
65°	22797.4	22415.2	22254.2	23134.4	24919.7	24809.1	23798.2	19488.2	14534.4	14127.0	13548.7
67.5°	25281.8	25050.5	24718.6	26121.7	28344.6	28344.6	25704.3	19377.5	13362.6	11340.9	8861.5
70°	26458.7	26619.6	27147.7	29350.5	31709.2	31467.8	27585.2	18105.2	9947.8	6090.4	3485.2
72°	25674.1	25508.1	26871.1	30406.6	33781.2	33383.9	27268.4	14393.6	5748.4	2670.5	1212.0
72.5°	24326.3	24482.2	26358.1	30260.7	33393.9	33720.8	26493.9	13277.1	4727.5	2127.4	915.3
75°	14916.6	15183.2	19674.3	25694.2	29099.0	28731.9	20494.0	6326.7	1815.5	905.3	326.9
77.5°	5446.6	5667.9	9545.4	16168.9	20695.2	20463.8	11858.9	2248.1	985.7	673.9	166.0
80°	1418.2	1533.9	3243.8	7458.3	12170.7	12185.8	4963.8	900.2	668.9	553.2	100.6
82.5°	281.6	311.8	995.8	2901.9	5688.0	5612.6	1569.1	482.8	502.9	452.6	70.4
85°	35.2	45.3	211.2	985.7	1840.7	1649.6	387.2	241.4	372.2	352.0	45.3
87.5°	5.0	5.0	50.3	226.3	387.2	377.2	80.5	75.4	166.0	216.3	25.1
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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CATALOG NUMBER: IFLD-L-SA7D-735-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6	5089.6
2.5°	5144.9	5165.0	5235.4	5295.8	5366.2	5386.3	5356.1	5406.4	5336.0	5376.2	5386.3
5°	5154.9	5270.6	5401.4	5486.9	5466.7	5416.5	5376.2	5240.4	5144.9	5109.7	5185.1
7.5°	5225.3	5356.1	5496.9	5496.9	5386.3	5124.8	4873.3	4631.9	4430.7	4330.1	4415.6
10°	5315.9	5451.7	5597.5	5406.4	4994.0	4516.2	4159.2	3706.5	3399.7	3238.8	3253.9
12.5°	5436.6	5627.7	5678.0	5235.4	4551.4	3842.3	3193.5	2564.9	2273.2	2041.9	2046.9
15°	5592.5	5778.6	5627.7	4863.2	3988.2	2942.1	2162.6	1564.1	1332.7	1212.0	1212.0
17.5°	5798.7	5939.5	5612.6	4521.3	3228.8	2011.7	1327.7	1056.1	1005.8	985.7	985.7
20°	6040.1	6145.7	5466.7	3988.2	2398.9	1292.5	975.7	945.5	950.5	940.5	940.5
22.5°	6311.7	6346.9	5300.8	3369.6	1624.4	955.5	910.3	915.3	920.3	910.3	915.3
25°	6598.3	6502.8	5059.4	2645.4	1081.3	870.1	880.1	890.2	895.2	900.2	900.2
27.5°	6920.2	6729.1	4722.4	1936.2	844.9	819.8	849.9	880.1	885.1	885.1	880.1
30°	7392.9	7076.1	4395.5	1312.6	744.3	764.4	814.7	849.9	875.1	875.1	870.1
32.5°	7991.4	7438.2	3937.9	895.2	689.0	699.1	739.3	809.7	865.0	870.1	855.0
35°	8821.2	7875.7	3460.1	714.1	648.8	653.8	678.9	734.3	829.8	860.0	855.0
37.5°	9696.3	8373.6	2866.6	643.7	618.6	613.6	628.7	673.9	759.4	834.8	839.9
40°	10626.7	8896.7	2243.0	608.5	593.4	583.4	588.4	608.5	673.9	769.5	789.6
42.5°	11501.8	9369.4	1684.8	573.3	568.3	558.2	558.2	563.3	598.5	663.9	673.9
45°	12447.3	9756.7	1282.4	548.2	533.1	538.1	518.0	508.0	533.1	538.1	533.1
47.5°	13332.4	10143.9	1026.0	518.0	502.9	502.9	477.8	457.7	457.7	412.4	407.4
50°	14162.3	10355.1	819.8	477.8	472.7	467.7	432.5	397.3	367.1	311.8	301.8
52.5°	14851.3	10345.1	633.7	427.5	442.6	427.5	372.2	321.9	276.6	226.3	216.3
55°	15057.5	9862.3	477.8	352.0	377.2	357.1	296.7	251.5	201.2	160.9	155.9
57.5°	14881.4	9128.0	362.1	271.6	291.7	271.6	226.3	186.1	140.8	110.6	100.6
60°	14293.0	8268.0	281.6	211.2	221.3	206.2	171.0	140.8	100.6	70.4	60.4
62.5°	13176.5	7191.8	216.3	166.0	160.9	160.9	130.8	105.6	70.4	40.2	35.2
65°	10812.8	5607.6	166.0	115.7	115.7	115.7	100.6	75.4	45.3	20.1	10.1
67.5°	6789.4	3264.0	135.8	90.5	85.5	85.5	70.4	50.3	25.1	5.0	0.0
70°	2554.8	1197.0	105.6	70.4	65.4	65.4	50.3	30.2	15.1	0.0	0.0
72°	880.1	457.7	85.5	50.3	50.3	45.3	35.2	25.1	10.1	0.0	0.0
72.5°	724.2	367.1	80.5	50.3	45.3	45.3	35.2	25.1	10.1	0.0	0.0
75°	261.5	150.9	55.3	35.2	30.2	30.2	25.1	15.1	5.0	0.0	0.0
77.5°	130.8	95.6	45.3	30.2	25.1	15.1	15.1	10.1	5.0	0.0	0.0
80°	80.5	60.4	25.1	20.1	15.1	10.1	5.0	5.0	0.0	0.0	0.0
82.5°	55.3	35.2	15.1	15.1	10.1	5.0	0.0	0.0	0.0	0.0	0.0
85°	35.2	15.1	10.1	10.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	10.1	5.0	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)