

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: P484725

Luminaire Tested: **IFLD-S-SA6C-730-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484725  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-730-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

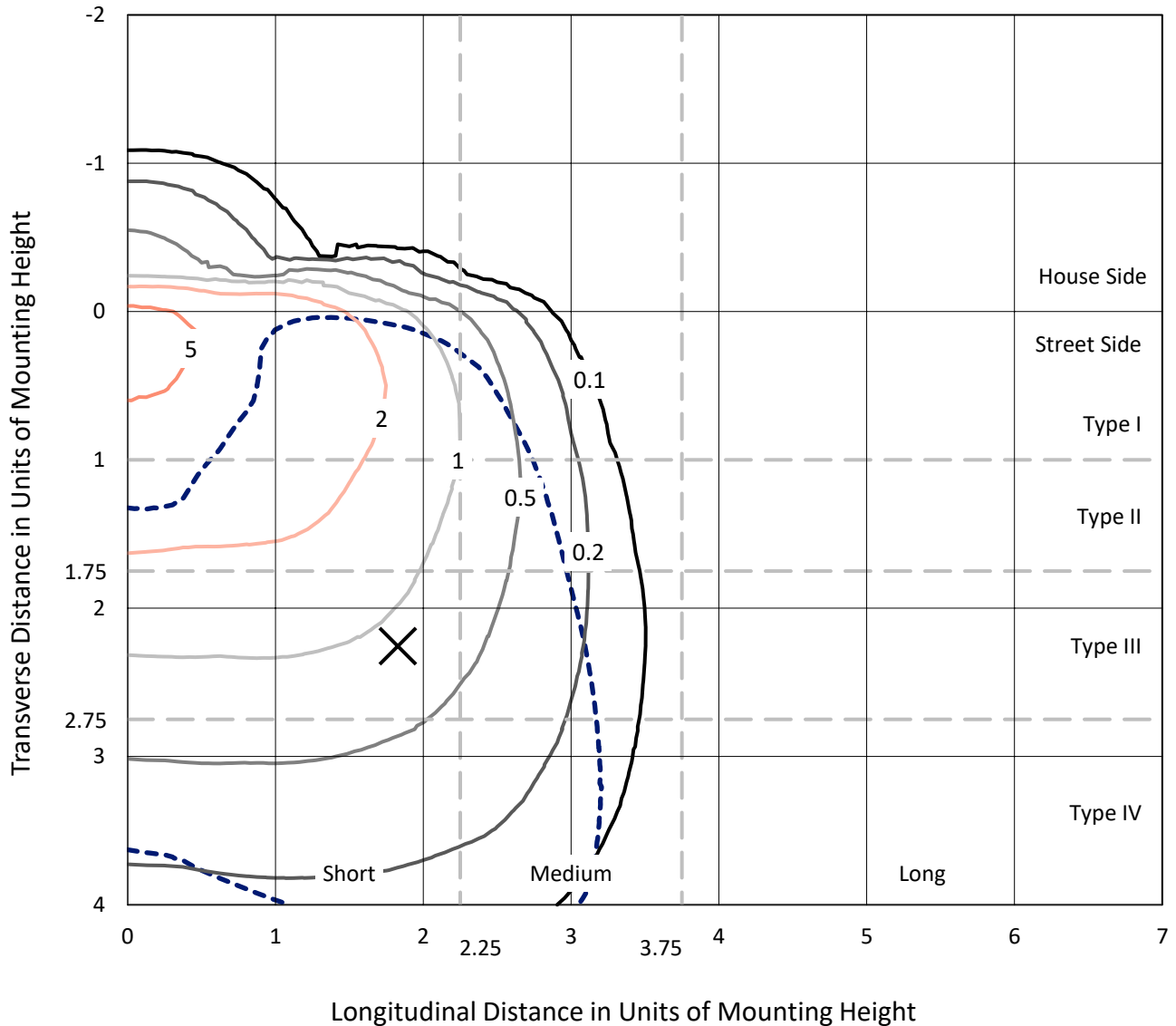
Lumens per Lamp: N/A  
Luminaire Lumens: 31257.9 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 321.5  
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

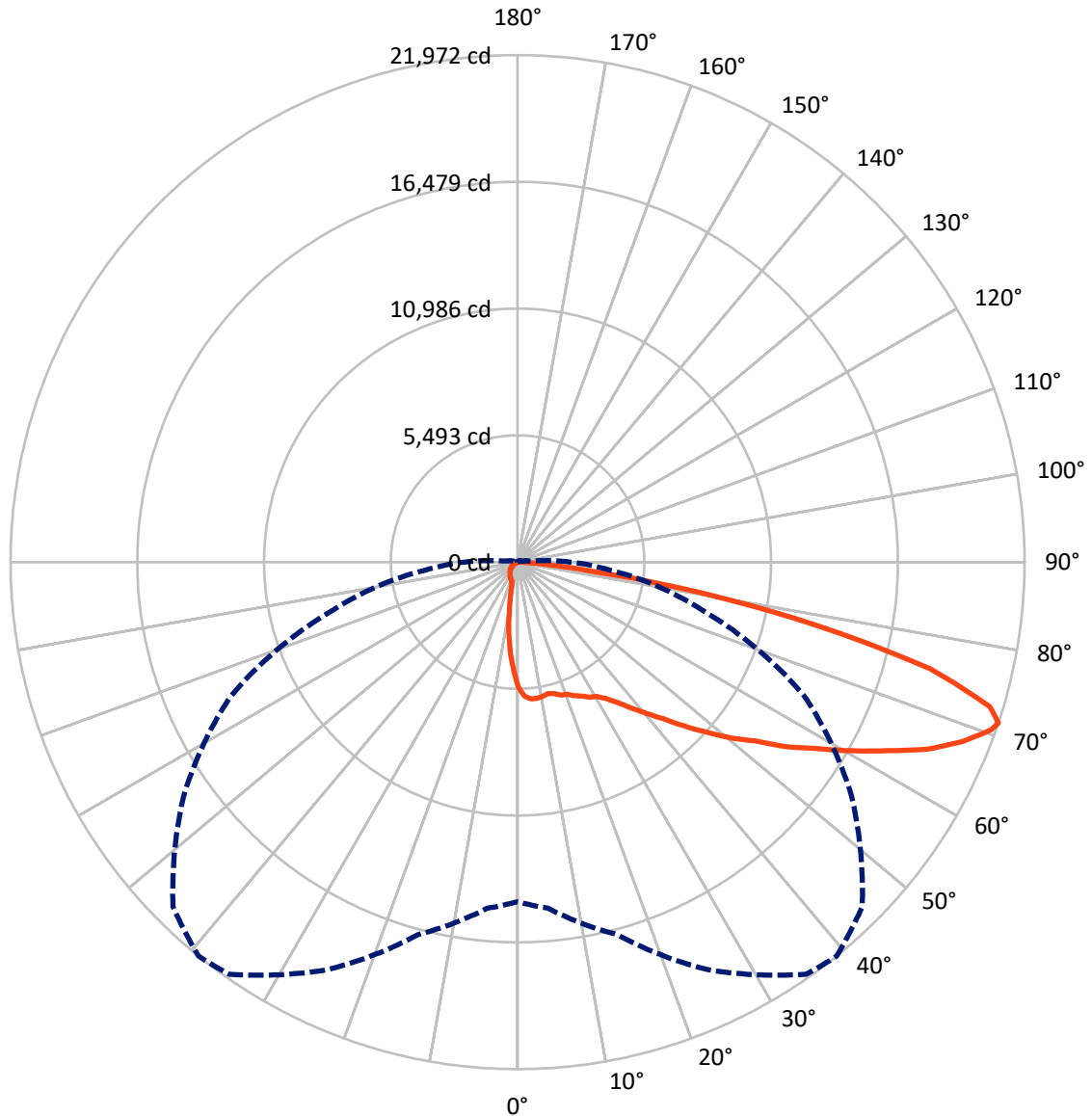
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2353.2	0.0	2353.2
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	28904.7	0.0	28904.7
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	31257.9	0.0	31257.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.9	1.5
10°-20°	1119.6	3.6
20°-30°	1797.3	5.7
30°-40°	2751.3	8.8
40°-50°	4416.3	14.1
50°-60°	6486.8	20.8
60°-70°	8169.9	26.1
70°-80°	5452.4	17.4
80°-90°	609.3	1.9
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°	31257.9	100.0
0°-180°	31257.9	100.0



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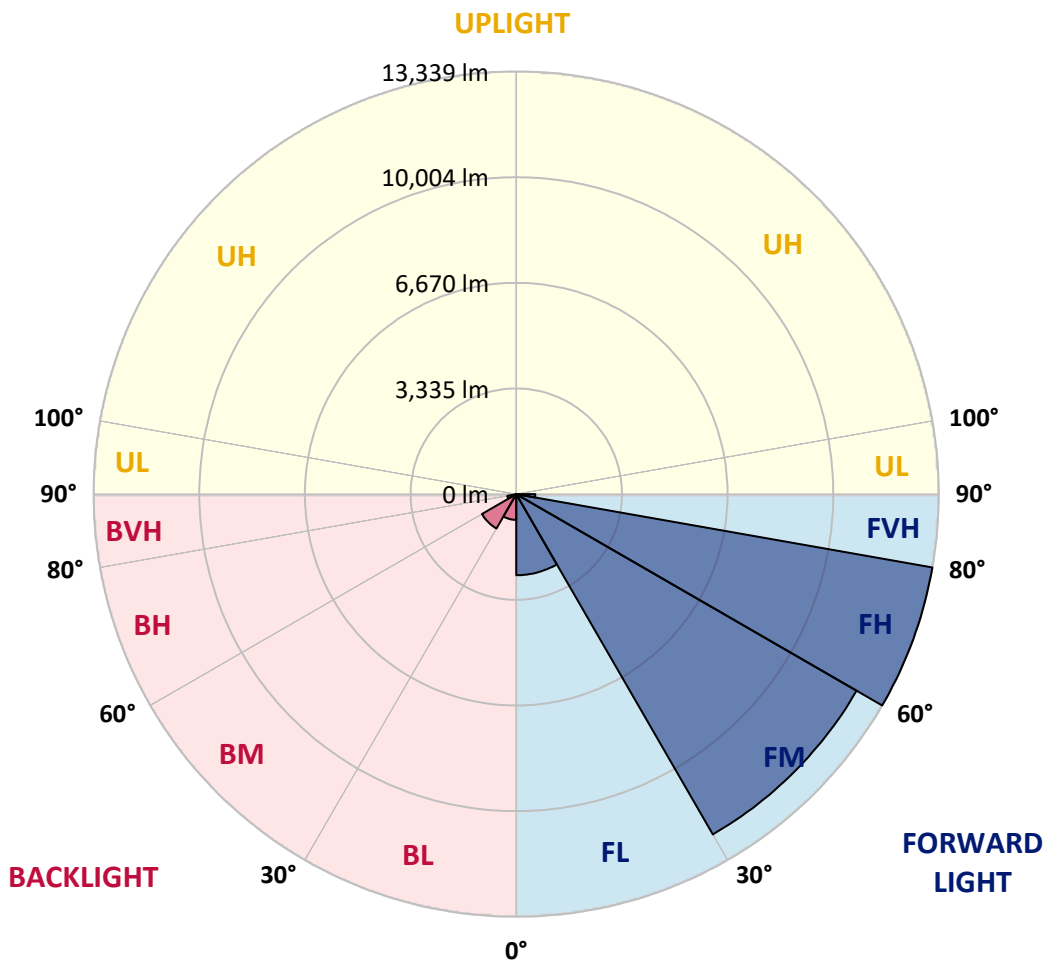
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2559.4	8.2			
FM (30°-60°)	12403.6	39.7			
FH (60°-80°)	13339.1	42.7			G5
FVH (80°-90°)	602.6	1.9			G4/750
BL (0°-30°)	812.5	2.6	B2/1000		
BM (30°-60°)	1250.8	4.0	B2/2500		
BH (60°-80°)	283.2	0.9	B1/500		G1/500
BVH (80°-90°)	6.7	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6
2.5°	5862.9	5920.3	5862.9	5838.3	5813.7	5817.8	5752.2	5764.5	5686.6	5584.1	5502.1
5°	6047.4	6125.3	6063.8	6035.1	6031.0	5953.1	5920.3	5842.4	5748.1	5588.2	5489.8
7.5°	6031.0	6014.6	6043.3	6018.7	5965.4	5965.4	5928.5	5817.8	5723.5	5543.1	5375.0
10°	5908.0	5957.2	5932.6	5903.9	5916.2	5920.3	5850.6	5772.7	5744.0	5563.6	5288.9
12.5°	5895.7	5813.7	5903.9	5908.0	5854.7	5850.6	5842.4	5821.9	5731.7	5567.7	5309.4
15°	5854.7	5821.9	5912.1	5916.2	5928.5	5916.2	5928.5	5912.1	5821.9	5727.6	5399.6
17.5°	5887.5	5850.6	5977.7	6039.2	6010.5	6067.9	6047.4	5973.6	5895.7	5785.0	5485.7
20°	5895.7	5949.0	6088.4	6113.0	6203.2	6108.9	6104.8	6026.9	5977.7	5858.8	5539.0
22.5°	6047.4	6072.0	6244.2	6297.5	6301.6	6289.3	6186.8	6096.6	6076.1	5928.5	5551.3
25°	6277.0	6363.1	6441.0	6473.8	6486.1	6428.7	6322.1	6207.3	6158.1	6063.8	5678.4
27.5°	6682.9	6629.6	6699.3	6748.5	6609.1	6629.6	6494.3	6395.9	6326.2	6244.2	5826.0
30°	7043.7	6994.5	6998.6	6990.4	6871.5	6760.8	6723.9	6551.7	6465.6	6498.4	6055.6
32.5°	7367.6	7261.0	7351.2	7310.2	7088.8	7056.0	7027.3	6810.0	6826.4	6978.1	6400.0
35°	7666.9	7630.0	7703.8	7630.0	7482.4	7474.2	7445.5	7256.9	7347.1	7564.4	6990.4
37.5°	7941.6	7953.9	8044.1	8007.2	8019.5	8027.7	8011.3	7810.4	8068.7	8556.6	7679.2
40°	8195.8	8179.4	8400.8	8515.6	8540.2	8630.4	8630.4	8581.2	8978.9	9528.3	8634.5
42.5°	8466.4	8507.4	8794.4	8987.1	9220.8	9298.7	9405.3	9429.9	10044.9	10672.2	9610.3
45°	8909.2	8839.5	9204.4	9659.5	9864.5	10139.2	10303.2	10442.6	11184.7	12045.7	10586.1
47.5°	9470.9	9331.5	9651.3	10311.4	10787.0	11012.5	11307.7	11492.2	12217.8	13107.5	11508.6
50°	10094.1	9950.6	10106.4	11016.6	11570.1	11980.1	12357.2	12590.9	13468.3	14296.5	12181.0
52.5°	10799.3	10668.1	10692.7	11750.5	12566.3	12865.6	13361.7	13710.2	14583.5	15014.0	12418.7
55°	11549.6	11516.8	11438.9	12467.9	13439.6	14112.0	14411.3	14829.5	15727.4	15403.5	12677.0
57.5°	12303.9	12201.5	12312.1	13419.1	14841.8	15243.6	15657.7	15907.8	16362.9	15743.8	12578.6
60°	13013.2	13021.4	13177.2	14452.3	16034.9	16604.8	16977.9	16826.2	17014.8	15891.4	12353.1
62.5°	13611.8	13595.4	13989.0	15612.6	17613.4	17998.8	18277.6	17601.1	17318.2	16034.9	11959.6
65°	14148.9	14333.4	14952.5	16994.3	19097.6	19540.4	19372.3	18335.0	17613.4	15612.6	10852.6
67.5°	14554.8	14829.5	15903.7	18294.0	20458.7	20770.3	20536.6	18892.6	17264.9	13956.2	8839.5
70°	14792.6	15071.4	16584.3	19376.4	21545.2	21770.7	21221.3	18462.1	15231.3	10106.4	5514.4
71°	14718.8	15059.1	16715.5	19491.2	21803.5	21971.6	21118.8	17666.7	13697.9	8462.3	4022.1
72.5°	14050.5	14370.3	16170.2	19409.2	21491.9	21389.4	20319.4	15756.1	10782.9	5395.5	2078.7
75°	10323.7	10668.1	13878.3	16789.3	19183.7	18478.5	16444.9	11057.6	5625.1	1652.3	606.8
77.5°	5141.3	5198.7	8614.0	12189.2	14071.0	13369.9	11020.7	6166.3	2103.3	487.9	303.4
80°	2369.8	2386.2	3230.8	6313.9	8507.4	8007.2	6174.5	3042.2	951.2	258.3	237.8
82.5°	1615.4	1640.0	1947.5	2615.8	3694.1	3116.0	2501.0	1947.5	545.3	155.8	233.7
85°	295.2	270.6	1090.6	1385.8	1426.8	967.6	865.1	1685.1	205.0	90.2	205.0
87.5°	0.0	4.1	151.7	565.8	508.4	225.5	295.2	410.0	20.5	28.7	36.9
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°	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6	5440.6
2.5°	5432.4	5387.3	5235.6	5067.5	4915.8	4796.9	4645.2	4575.5	4464.8	4403.3	4399.2
5°	5354.5	5231.5	4969.1	4686.2	4370.5	4108.1	3817.1	3653.1	3464.5	3407.1	3394.8
7.5°	5223.3	5047.0	4661.6	4263.9	3780.2	3316.9	2960.2	2578.9	2345.2	2246.8	2209.9
10°	5141.3	4928.1	4403.3	3808.9	3132.4	2480.5	1980.3	1574.4	1361.2	1258.7	1234.1
12.5°	5141.3	4911.7	4194.2	3374.3	2476.4	1697.4	1225.9	992.2	922.5	897.9	897.9
15°	5129.0	4878.9	3993.4	2927.4	1832.7	1139.8	914.3	865.1	856.9	852.8	848.7
17.5°	5190.5	4821.5	3788.4	2447.7	1295.6	897.9	840.5	832.3	824.1	824.1	815.9
20°	5235.6	4788.7	3542.4	1939.3	967.6	832.3	807.7	795.4	791.3	787.2	795.4
22.5°	5198.7	4739.5	3239.0	1451.4	844.6	791.3	774.9	762.6	754.4	754.4	758.5
25°	5268.4	4694.4	2935.6	1094.7	791.3	754.4	738.0	729.8	725.7	721.6	713.4
27.5°	5362.7	4714.9	2574.8	881.5	746.2	717.5	701.1	692.9	688.8	680.6	688.8
30°	5477.5	4710.8	2177.1	770.8	705.2	676.5	660.1	656.0	647.8	643.7	647.8
32.5°	5674.3	4817.4	1767.1	713.4	660.1	635.5	619.1	615.0	610.9	606.8	602.7
35°	6096.6	4948.6	1381.7	668.3	619.1	590.4	578.1	569.9	565.8	561.7	557.6
37.5°	6617.3	5239.7	1053.7	627.3	578.1	549.4	537.1	533.0	516.6	512.5	508.4
40°	7269.2	5551.3	811.8	582.2	541.2	512.5	500.2	487.9	467.4	459.2	451.0
42.5°	8081.0	5854.7	668.3	541.2	500.2	479.7	459.2	438.7	422.3	405.9	397.7
45°	8892.8	6207.3	586.3	504.3	467.4	442.8	426.4	397.7	369.0	344.4	340.3
47.5°	9569.3	6334.4	537.1	463.3	434.6	414.1	389.5	352.6	311.6	287.0	282.9
50°	10073.6	6260.6	487.9	422.3	397.7	377.2	344.4	299.3	258.3	233.7	225.5
52.5°	10172.0	5936.7	442.8	389.5	360.8	336.2	299.3	250.1	205.0	180.4	176.3
55°	10102.3	5399.6	405.9	360.8	328.0	291.1	250.1	200.9	159.9	135.3	131.2
57.5°	9958.8	4764.1	364.9	323.9	287.0	250.1	205.0	164.0	118.9	94.3	94.3
60°	9470.9	3899.1	323.9	282.9	246.0	213.2	168.1	118.9	82.0	61.5	57.4
62.5°	8790.3	2997.1	282.9	241.9	213.2	176.3	131.2	86.1	49.2	32.8	32.8
65°	7548.0	2099.2	237.8	200.9	176.3	143.5	98.4	53.3	28.7	12.3	12.3
67.5°	5735.8	1299.7	196.8	168.1	151.7	114.8	69.7	32.8	12.3	4.1	0.0
70°	3292.3	676.5	155.8	135.3	118.9	86.1	49.2	16.4	8.2	0.0	0.0
71°	2300.1	500.2	139.4	118.9	106.6	77.9	41.0	12.3	4.1	0.0	0.0
72.5°	1152.1	332.1	118.9	98.4	86.1	61.5	32.8	12.3	4.1	0.0	0.0
75°	410.0	213.2	82.0	65.6	61.5	45.1	20.5	8.2	4.1	0.0	0.0
77.5°	282.9	172.2	57.4	41.0	41.0	28.7	12.3	4.1	4.1	0.0	0.0
80°	258.3	94.3	36.9	24.6	20.5	16.4	8.2	4.1	0.0	0.0	0.0
82.5°	258.3	69.7	20.5	16.4	12.3	8.2	4.1	0.0	0.0	0.0	0.0
85°	180.4	36.9	12.3	12.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	28.7	12.3	8.2	4.1	4.1	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)