

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: P482089

Luminaire Tested: **IFLD-L-SA8D-740-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482089  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-740-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

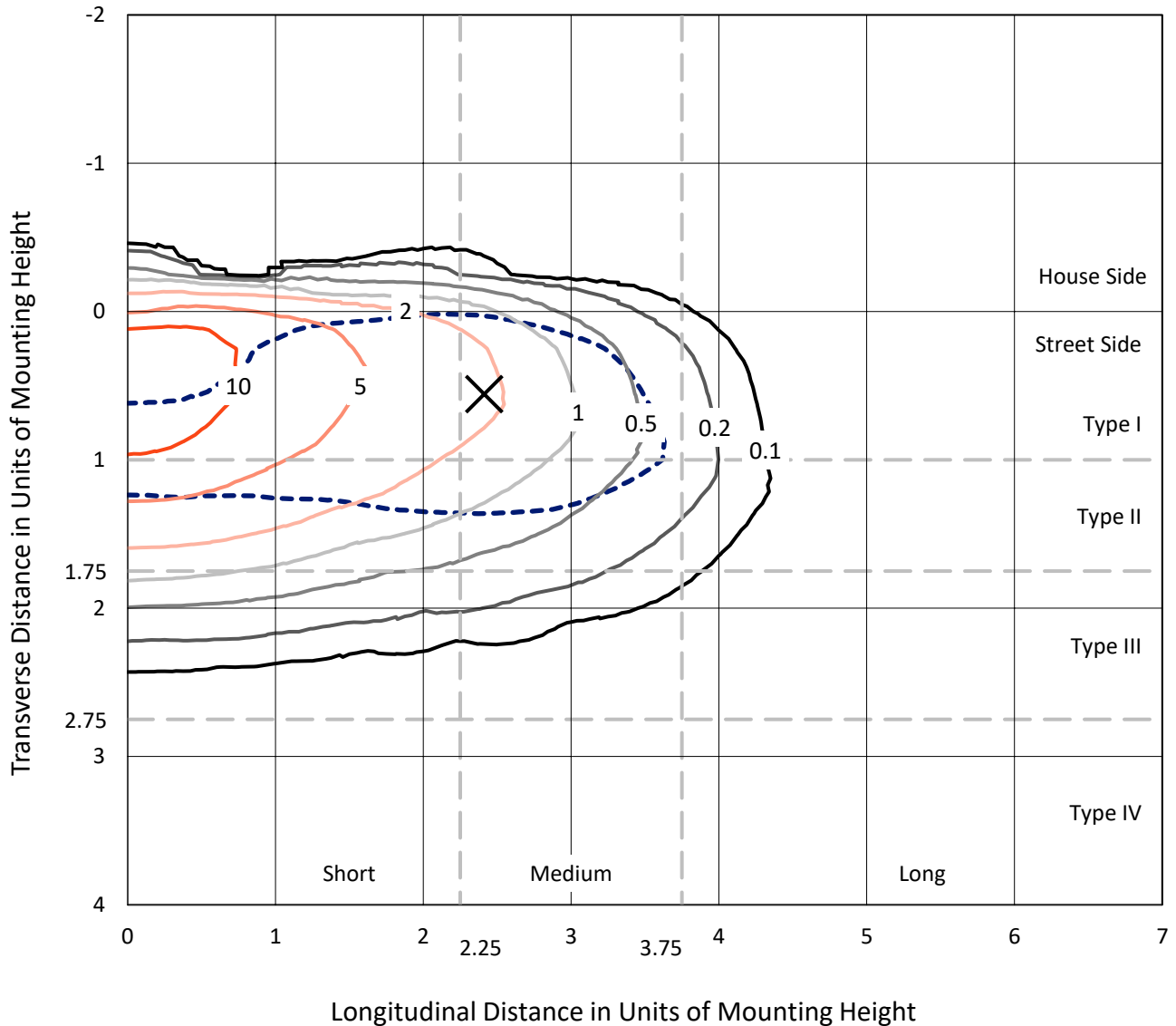
Lumens per Lamp: N/A  
Luminaire Lumens: 43829.2 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 488.3  
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

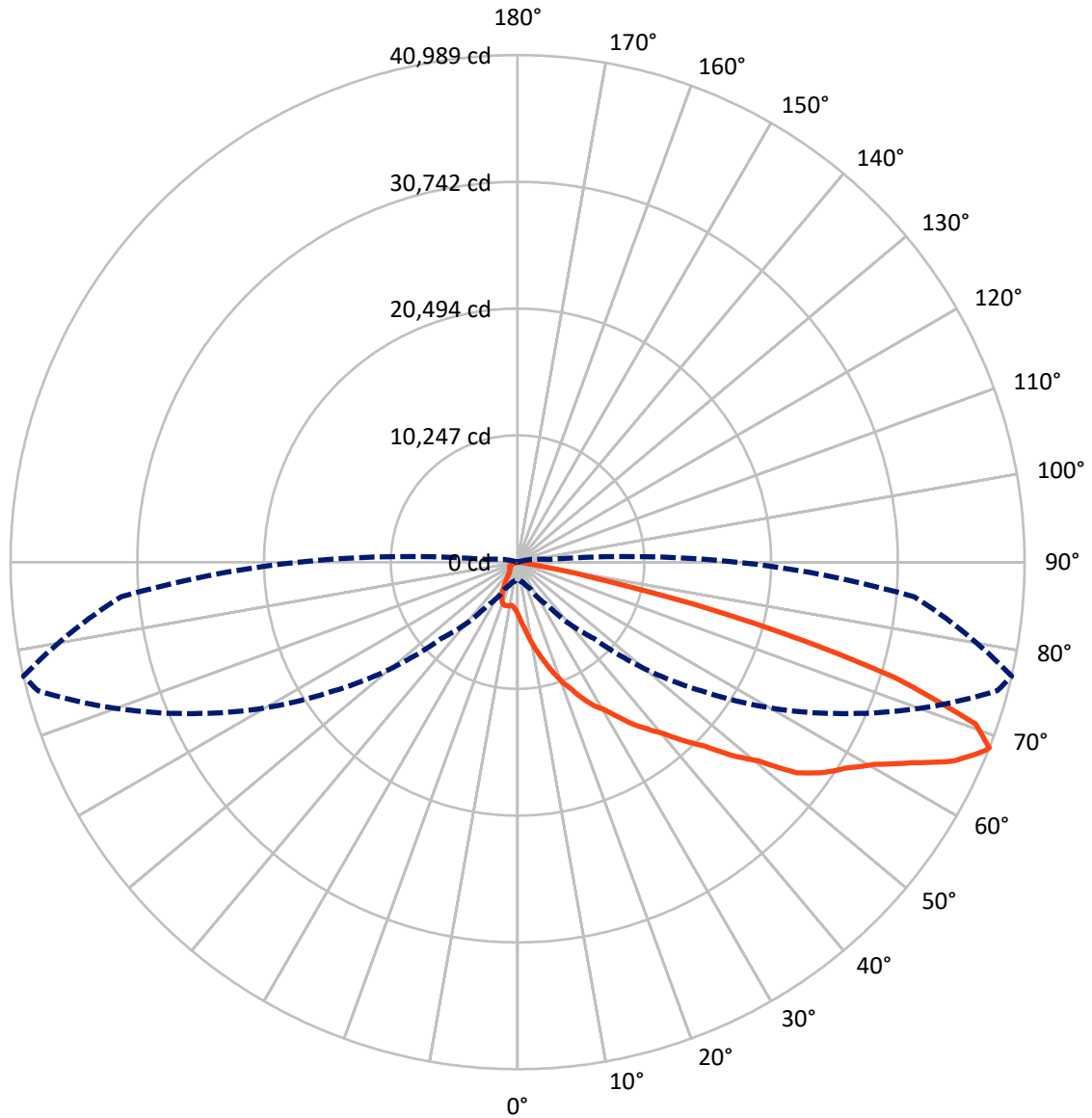
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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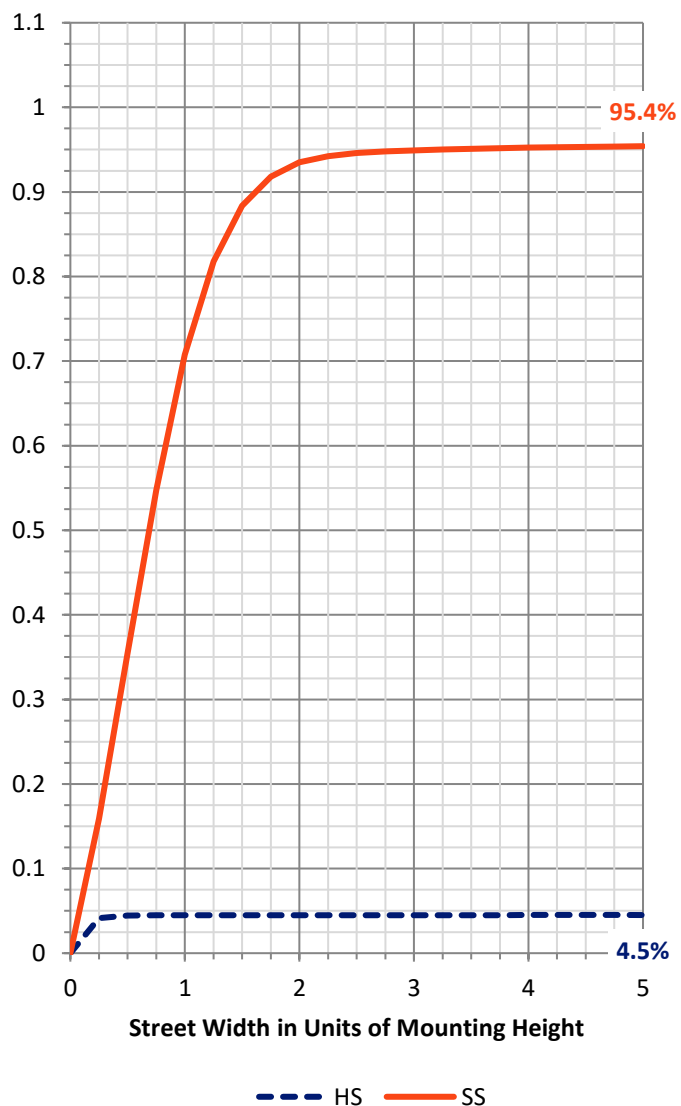
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1987.6	0.0	1987.6
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	41841.6	0.0	41841.6
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	43829.2	0.0	43829.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.3	1.1
10°-20°	1808.2	4.1
20°-30°	3504.4	8.0
30°-40°	6109.3	13.9
40°-50°	8947.7	20.4
50°-60°	10512.1	24.0
60°-70°	8876.6	20.3
70°-80°	3440.8	7.9
80°-90°	139.9	0.3
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°	43829.2	100.0
0°-180°	43829.2	100.0

**Coefficient of Utilization**



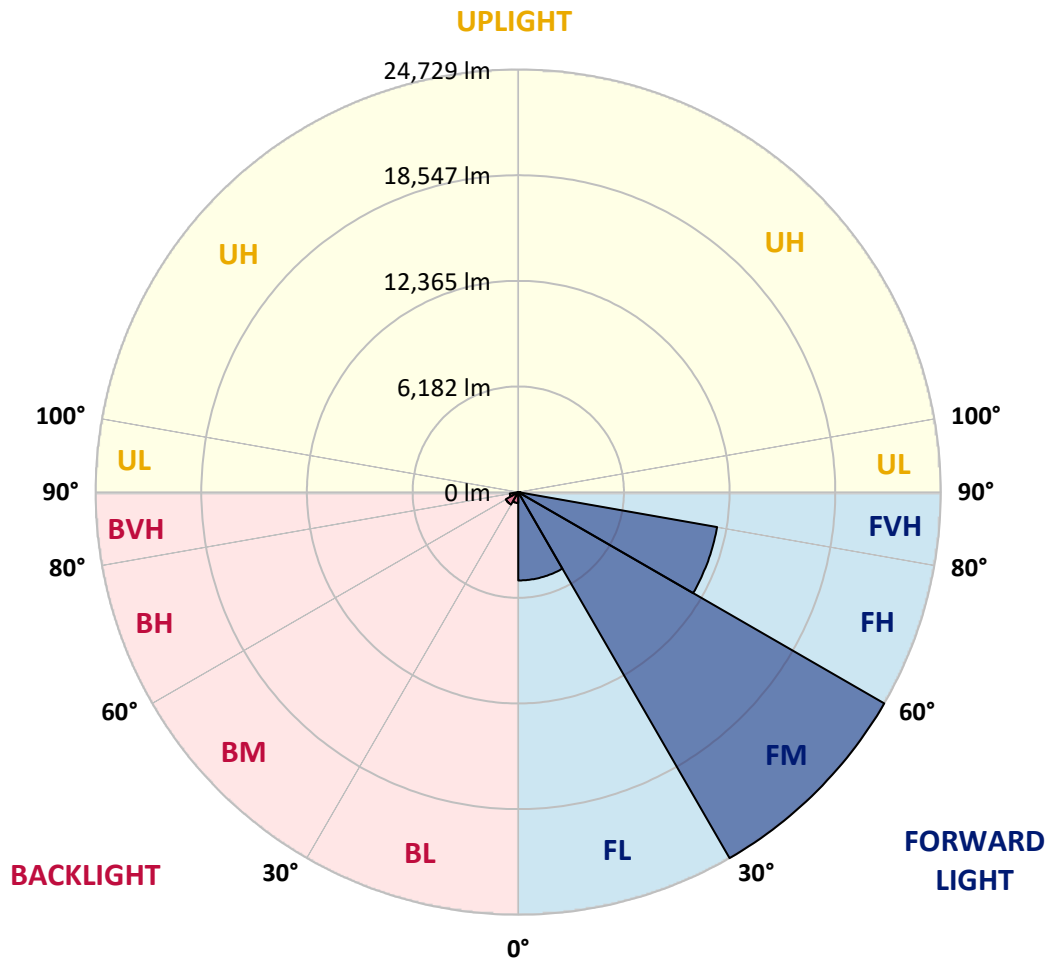
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5167.9	11.8			
FM (30°-60°)	24729.2	56.4			
FH (60°-80°)	11815.5	27.0			G4/12000
FVH (80°-90°)	129.1	0.3			G2/225
BL (0°-30°)	635.0	1.4	B2/1000		
BM (30°-60°)	839.9	1.9	B1/1000		
BH (60°-80°)	501.9	1.1	B2/1000		G2/1000
BVH (80°-90°)	10.8	0.0			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7
2.5°	6376.6	6255.8	6129.0	6092.8	5857.3	5591.6	5344.0	5102.5	4697.9	4703.9	4426.2
5°	8218.3	8067.4	7964.7	7940.5	7572.2	7113.3	6738.9	6056.6	5386.3	5235.3	4728.1
7.5°	9734.0	9685.7	9534.7	9407.9	9136.2	8574.6	8133.8	7155.5	6135.1	5966.0	5096.4
10°	10651.8	10724.3	10790.7	10627.7	10416.3	10011.7	9407.9	8351.2	6986.5	6775.1	5573.5
12.5°	11630.0	11509.3	11551.5	11684.4	11406.6	11316.0	10567.3	9583.0	7982.8	7578.2	6177.3
15°	11883.6	11932.0	12034.6	12421.1	12608.3	12348.6	11702.5	10579.3	9015.4	8453.8	6738.9
17.5°	12052.7	12028.6	12155.4	12735.1	13018.9	13266.4	12861.9	11690.4	9915.1	9413.9	7439.4
20°	12264.1	12131.2	12409.0	12777.3	13435.5	13954.8	13936.7	12807.5	10857.1	10325.7	8133.8
22.5°	13049.1	12946.4	13169.8	13206.1	13665.0	14389.6	14564.7	13719.3	11823.3	11171.1	8882.5
25°	14498.3	14685.5	14419.8	14190.3	14329.2	14806.2	14933.1	14528.5	12795.4	12197.6	9631.3
27.5°	16617.8	16593.6	16068.3	15772.4	15440.3	15379.9	15470.5	15283.3	13562.3	13133.6	10247.2
30°	18894.3	18695.0	18211.9	17499.4	16768.7	16315.9	16189.1	15995.8	14462.1	13840.1	10857.1
32.5°	20705.8	20814.5	20277.1	19347.2	18133.4	17523.5	16913.7	16702.3	15452.4	14902.9	11557.6
35°	22372.4	22227.5	21798.8	21013.8	19926.8	18942.6	17988.5	17535.6	16641.9	16098.5	12330.5
37.5°	23604.3	23785.4	22970.2	22221.5	21140.6	20325.4	19389.4	18399.1	17867.7	17143.1	13272.5
40°	24769.7	24485.9	23936.4	23248.0	22245.6	21623.6	21007.7	19461.9	19172.0	18236.1	14335.3
42.5°	24564.4	24582.5	24280.6	23725.0	23000.4	22644.1	22432.8	20754.1	20355.6	19757.8	15373.9
45°	23725.0	23797.5	23900.1	23628.4	23688.8	23332.5	23900.1	22239.6	21847.1	21213.0	16569.5
47.5°	22801.1	22921.9	22897.8	23392.9	23954.5	24075.3	25494.3	23888.1	23719.0	23368.8	18224.0
50°	21267.4	21315.7	21780.6	22680.4	23447.3	24709.3	26689.9	25687.5	25947.2	25258.8	20192.5
52.5°	18646.7	18821.8	20017.4	21303.6	22849.4	25029.3	27499.0	28362.5	29020.7	28314.2	22082.6
55°	15331.6	15573.1	16750.6	19160.0	21424.4	24546.2	28235.7	29775.5	31110.0	30041.2	23229.9
57.5°	12336.5	12360.7	13417.4	15905.2	19401.5	23598.2	28610.1	30463.9	32257.3	31399.9	24630.8
60°	9401.8	9305.2	10253.3	12409.0	15995.8	21267.4	27674.2	30814.1	33688.4	33193.3	26315.5
62.5°	6050.5	5899.6	6932.1	9033.5	12493.5	17384.7	25802.2	30820.2	35922.7	35735.5	29135.5
65°	2995.1	2892.4	3780.1	5537.2	8647.0	13296.6	23133.3	30705.5	38652.0	38772.8	31883.0
67.5°	1582.1	1618.3	1902.1	2807.9	4987.7	9395.8	19111.7	29358.9	40046.9	40723.2	32547.2
68°	1455.3	1467.3	1690.8	2336.9	4329.6	8713.5	18157.6	28966.4	40155.6	40988.9	32178.8
70°	1183.5	1201.6	1280.1	1467.3	2342.9	5670.1	14009.2	25633.2	38519.2	39280.0	29129.4
72.5°	942.0	996.3	1044.6	1123.1	1376.8	2976.9	8713.5	19975.2	31822.6	31907.1	22674.3
75°	718.6	760.8	857.5	923.9	1074.8	1636.4	4148.4	12179.5	20880.9	19854.4	13357.0
77.5°	555.5	591.8	634.0	724.6	899.7	1105.0	1268.1	5168.9	8870.5	7300.5	3774.0
80°	332.1	356.3	495.2	567.6	785.0	748.8	501.2	1437.1	1799.5	1419.0	688.4
82.5°	193.2	211.3	283.8	434.8	549.5	404.6	295.9	446.8	440.8	386.5	229.5
85°	6.0	12.1	157.0	259.7	193.2	108.7	181.2	187.2	157.0	144.9	102.7
87.5°	0.0	6.0	42.3	36.2	42.3	24.2	36.2	48.3	60.4	54.3	42.3
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°	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7	4196.7
2.5°	4239.0	4106.1	3810.3	3586.8	3345.3	3200.4	3055.4	2964.9	2916.6	2886.4	2910.5
5°	4347.7	4069.9	3592.9	3170.2	2892.4	2705.2	2518.0	2421.4	2330.8	2282.5	2312.7
7.5°	4589.2	4172.6	3381.5	2922.6	2596.5	2306.7	2071.2	1884.0	1775.3	1678.7	1696.8
10°	4885.1	4232.9	3387.6	2777.7	2306.7	1847.8	1515.6	1280.1	1147.3	1062.8	1056.7
12.5°	5187.0	4468.4	3411.7	2632.8	1950.4	1388.8	996.3	821.2	742.7	700.5	700.5
15°	5645.9	4679.8	3351.3	2367.1	1479.4	905.8	682.3	622.0	591.8	555.5	561.6
17.5°	6044.5	5017.9	3321.1	1968.5	1014.5	652.2	567.6	501.2	471.0	434.8	434.8
20°	6581.9	5229.3	3158.1	1521.7	700.5	543.5	458.9	398.5	350.2	320.0	326.1
22.5°	7071.0	5392.3	2868.3	1038.6	537.4	428.7	338.2	277.8	235.5	199.3	205.3
25°	7602.4	5555.4	2445.6	640.1	380.4	265.7	181.2	132.8	90.6	66.4	66.4
27.5°	7982.8	5603.7	1896.1	380.4	229.5	120.8	42.3	6.0	0.0	0.0	0.0
30°	8369.3	5621.8	1310.3	205.3	90.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	8810.1	5615.7	821.2	108.7	6.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	9148.2	5513.1	392.5	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	9661.5	5362.1	120.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	10247.2	5090.4	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	10772.6	4812.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	11370.4	4468.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	12421.1	4323.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	13791.8	4208.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14637.2	3870.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	15078.0	3520.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	15730.1	3351.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16696.3	3363.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	18205.9	3532.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19039.2	3363.4	24.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18332.7	2693.1	114.7	30.2	6.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	17722.8	2475.8	114.7	30.2	6.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14649.3	1612.3	108.7	30.2	12.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10669.9	893.7	90.6	24.2	12.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	6207.5	446.8	66.4	24.2	12.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1618.3	223.4	54.3	30.2	18.1	6.0	0.0	0.0	0.0	0.0	0.0
80°	320.0	144.9	48.3	36.2	24.2	12.1	0.0	0.0	0.0	0.0	0.0
82.5°	151.0	102.7	48.3	36.2	30.2	18.1	6.0	0.0	0.0	0.0	0.0
85°	78.5	48.3	48.3	36.2	36.2	24.2	12.1	0.0	0.0	0.0	0.0
87.5°	36.2	18.1	18.1	18.1	18.1	12.1	6.0	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)