

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: P478109

Luminaire Tested: **IFLD-L-SA8B-730-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478109  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-730-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

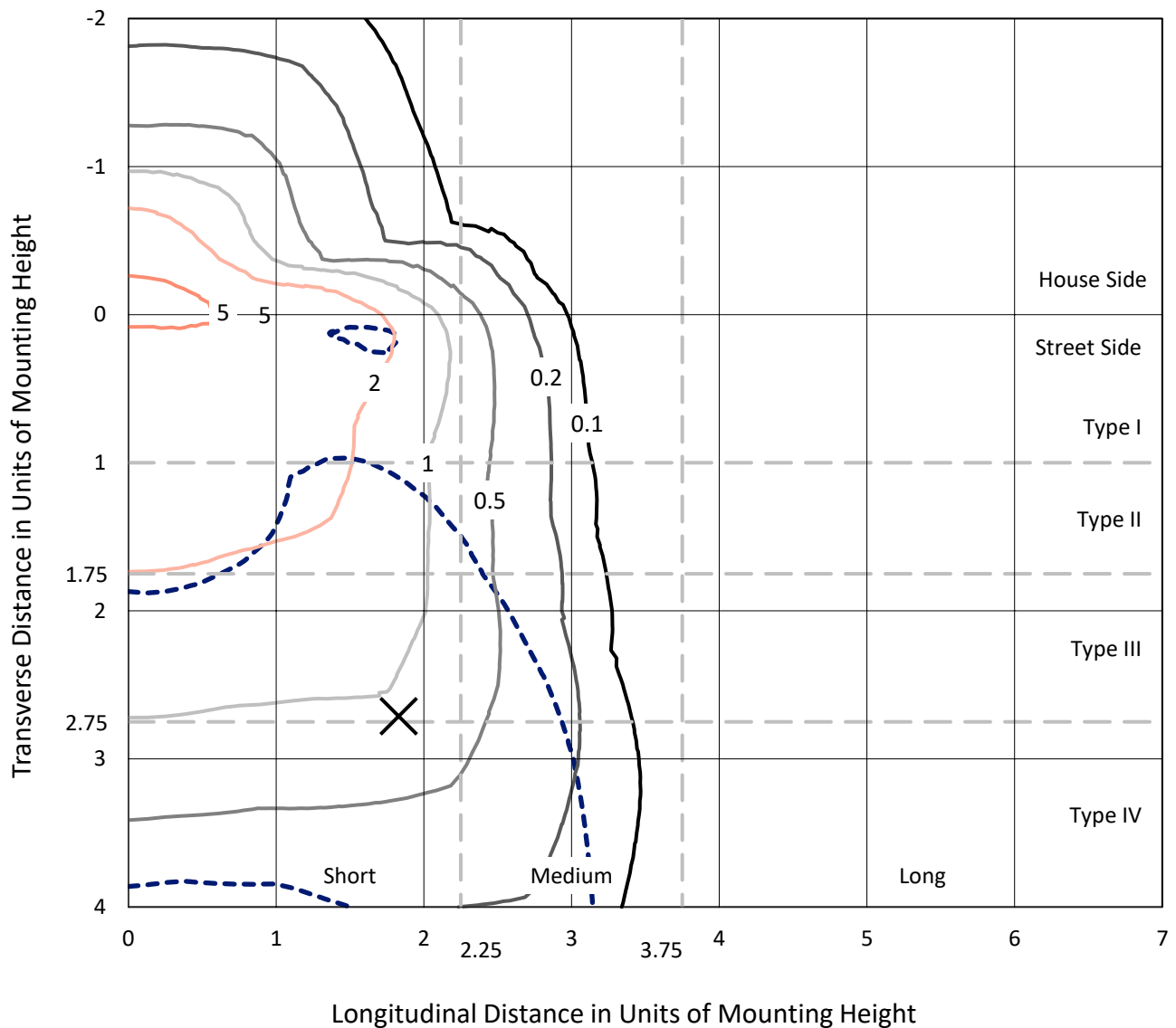
Lumens per Lamp: N/A  
Luminaire Lumens: 37967.9 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 320  
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

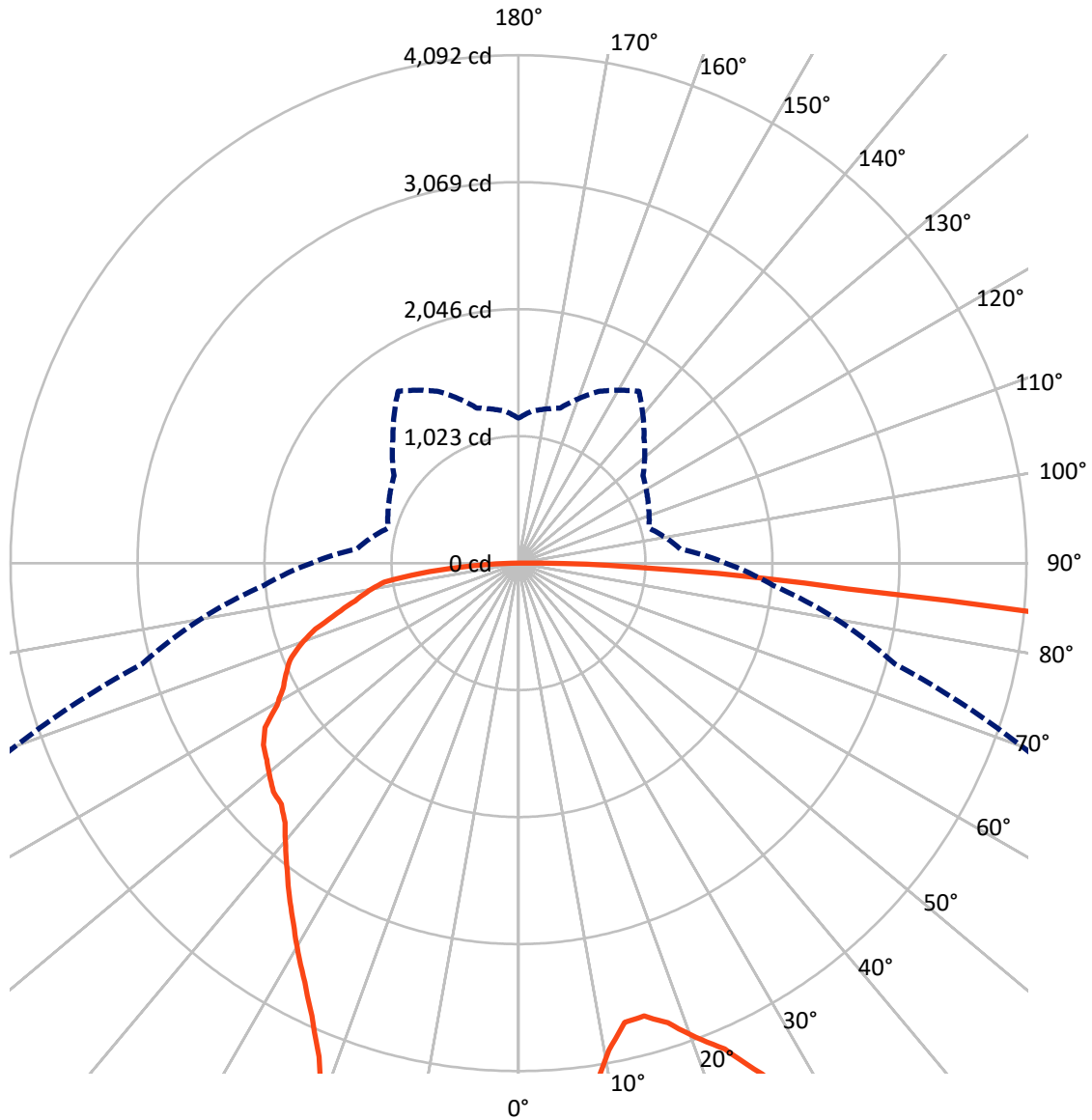
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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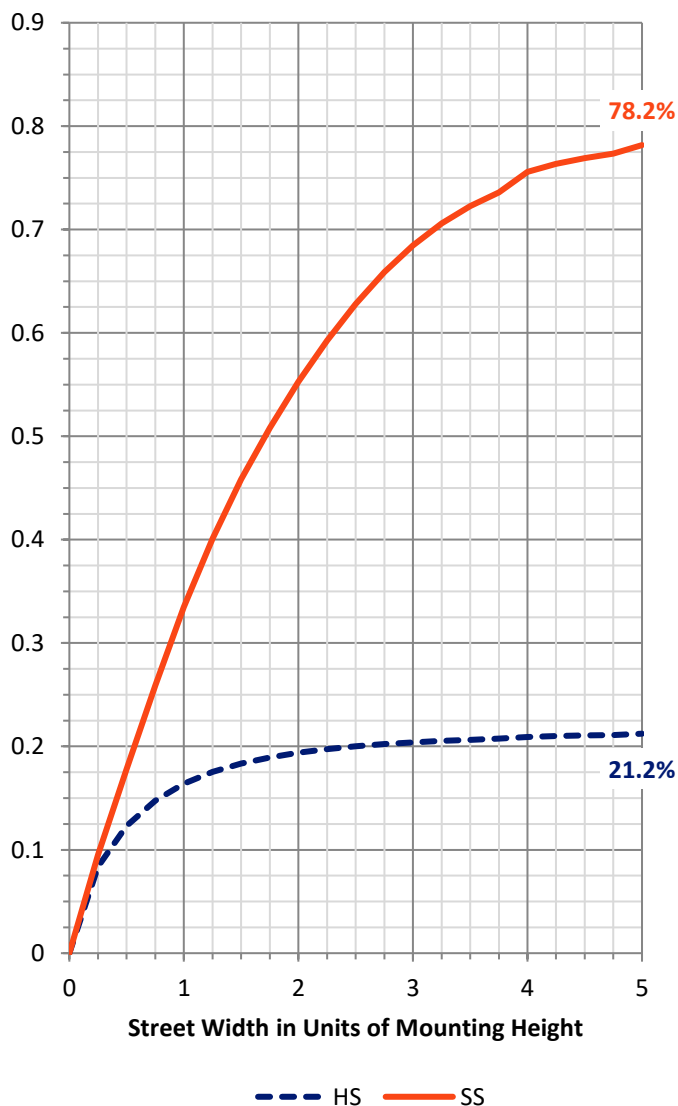
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8201.5	0.0	8201.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	29766.3	0.0	29766.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	37967.9	0.0	37967.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.4	1.3
10°-20°	1406.0	3.7
20°-30°	2314.0	6.1
30°-40°	3460.6	9.1
40°-50°	5130.2	13.5
50°-60°	7393.2	19.5
60°-70°	9434.7	24.8
70°-80°	7341.8	19.3
80°-90°	984.9	2.6
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°	37967.9	100.0
0°-180°	37967.9	100.0

**Coefficient of Utilization**

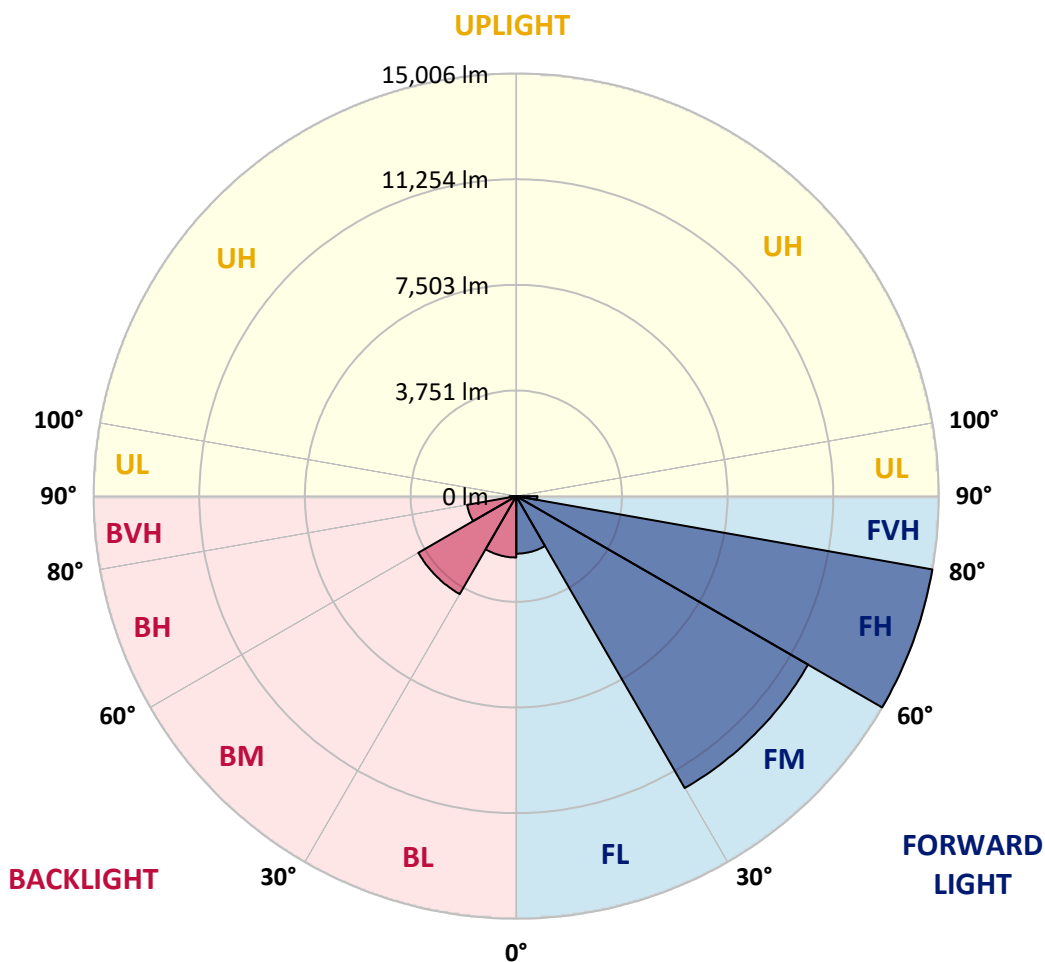


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2043.3	5.4			
FM (30°-60°)	11967.7	31.5			
FH (60°-80°)	15005.6	39.5			G5
FVH (80°-90°)	749.7	2.0			G4/750
BL (0°-30°)	2179.1	5.7	B3/2500		
BM (30°-60°)	4016.3	10.6	B3/5000		
BH (60°-80°)	1770.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	235.2	0.6			G3/500
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°	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3
2.5°	4877.3	4893.3	4945.5	4957.6	5013.8	4981.7	5049.9	5170.3	5238.6	5338.9	5459.3
5°	4491.9	4423.7	4455.8	4580.2	4644.5	4660.5	4732.8	4937.5	5066.0	5214.5	5439.3
7.5°	4038.3	4026.3	4090.5	4170.8	4299.2	4311.3	4471.8	4652.5	4917.4	5246.6	5511.5
10°	3729.2	3781.4	3817.5	3901.8	3990.1	3990.1	4194.9	4508.0	4809.0	5126.2	5527.6
12.5°	3713.2	3681.0	3689.1	3733.2	3797.5	3877.7	4070.4	4351.4	4732.8	5102.1	5595.8
15°	3765.3	3777.4	3705.1	3761.3	3785.4	3813.5	4026.3	4343.4	4684.6	5186.4	5712.2
17.5°	4042.3	3974.1	3861.7	3809.5	3893.8	3893.8	4038.3	4287.2	4692.6	5230.5	5880.8
20°	4259.1	4259.1	4074.4	4018.2	4078.5	4066.4	4166.8	4351.4	4732.8	5318.9	6069.5
22.5°	4624.4	4676.6	4371.5	4255.1	4251.1	4283.2	4371.5	4528.0	4845.2	5443.3	6250.2
25°	5150.3	5162.3	4809.0	4688.6	4560.2	4612.3	4628.4	4785.0	4945.5	5587.8	6454.9
27.5°	5736.3	5728.3	5403.1	5102.1	5017.8	5029.8	4941.5	5045.9	5094.1	5632.0	6747.9
30°	6386.6	6314.4	6069.5	5644.0	5575.8	5499.5	5306.8	5302.8	5403.1	5880.8	7153.4
32.5°	6812.1	6719.8	6551.2	6246.1	6057.5	6065.5	5760.4	5756.4	5668.1	6153.8	7506.6
35°	7229.6	7089.1	7045.0	6731.9	6543.2	6563.3	6318.4	6286.3	6125.7	6567.3	8088.7
37.5°	7731.4	7607.0	7675.2	7438.4	7205.5	7109.2	6996.8	6956.7	6747.9	7149.3	8883.5
40°	8285.4	8245.2	8201.1	8084.7	7944.2	7952.2	7831.8	7791.6	7482.5	7851.8	9646.2
42.5°	9032.0	8879.5	8650.7	8726.9	8799.2	8875.5	8835.3	8730.9	8409.8	8566.4	10497.2
45°	9726.5	9525.8	9104.3	9128.4	9425.4	9485.6	9971.3	9959.3	9313.0	9473.6	11464.6
47.5°	10196.1	10103.8	9850.9	9822.8	10248.3	10244.3	11119.4	11119.4	10264.4	10376.8	12504.3
50°	10894.6	10653.8	10545.4	10685.9	10902.6	11051.2	12291.6	12367.8	11199.7	11320.1	13865.1
52.5°	11713.5	11412.4	11139.5	11500.8	11886.1	11982.5	13451.7	13419.6	11918.2	12416.0	15458.8
55°	12391.9	12239.4	12050.7	12259.4	12889.7	13010.1	14615.8	14318.7	12636.8	13323.2	16225.5
57.5°	13182.7	13275.0	13315.2	13263.0	14013.7	14202.3	15944.5	15093.5	13255.0	13933.4	16675.1
60°	14374.9	14431.1	14483.3	14607.8	15402.6	15667.5	16996.2	16064.9	13644.4	14286.6	16711.2
62.5°	16189.4	15972.6	16089.0	16518.5	17156.8	17457.9	18545.7	16747.4	13941.4	14499.4	15531.0
65°	18264.7	17971.7	17851.3	18405.2	20059.1	19818.2	20480.6	17257.2	13511.9	13704.6	13170.7
67.5°	20368.2	20400.3	20091.2	21203.1	23230.3	23230.3	22279.0	17502.0	12347.8	11107.4	9236.7
70°	22038.1	22138.5	22307.1	24462.7	27674.1	28159.8	24506.9	16498.5	9975.4	7394.2	5049.9
72.5°	22014.0	21713.0	22576.0	26546.1	31712.4	31307.0	24972.5	13046.2	6226.1	3620.8	2316.2
73°	21520.3	21267.4	22210.7	26526.0	31877.0	31495.6	24631.3	12026.6	5491.5	3139.1	2059.3
75°	17574.3	17116.7	18722.4	24025.1	29492.5	29785.6	20926.2	7843.8	3010.7	1934.9	1449.1
77.5°	8012.4	8213.1	10304.5	16117.1	22728.6	23073.8	13756.8	3392.0	1649.8	1356.8	1067.8
80°	2573.1	2701.6	4010.2	8012.4	14246.5	14868.7	6358.5	1541.5	1176.2	1039.7	798.8
82.5°	983.5	979.5	1682.0	3331.8	6751.9	7149.3	2324.2	939.3	875.1	766.7	566.0
85°	345.2	361.3	634.2	1316.7	2657.4	2781.9	806.9	521.8	606.1	513.8	325.2
87.5°	120.4	124.4	224.8	477.7	915.2	967.4	224.8	208.7	301.1	297.1	164.6
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°	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3	5443.3
2.5°	5499.5	5535.6	5547.7	5692.2	5692.2	5692.2	5748.4	5748.4	5732.3	5692.2	5788.5
5°	5523.6	5587.8	5712.2	5836.7	5868.8	5896.9	5973.2	5908.9	5933.0	5892.9	5929.0
7.5°	5591.8	5680.1	5913.0	5989.2	5937.0	5997.3	5917.0	5872.8	5828.7	5844.7	5788.5
10°	5708.2	5820.6	5929.0	6069.5	5969.2	5908.9	5744.4	5704.2	5563.7	5515.5	5559.7
12.5°	5852.7	5989.2	6173.9	6121.7	5929.0	5756.4	5579.8	5411.2	5326.9	5206.5	5238.6
15°	5997.3	6153.8	6181.9	6093.6	5852.7	5636.0	5314.8	5078.0	4993.7	4885.3	4941.5
17.5°	6153.8	6302.3	6254.2	6025.4	5700.2	5371.0	5005.7	4772.9	4596.3	4528.0	4528.0
20°	6386.6	6458.9	6382.6	5913.0	5515.5	5082.0	4728.8	4463.8	4287.2	4259.1	4214.9
22.5°	6567.3	6683.7	6342.5	5748.4	5246.6	4704.7	4299.2	4198.9	4146.7	4102.5	4046.3
25°	6800.1	6796.1	6270.2	5595.8	4785.0	4255.1	4010.2	4002.2	3978.1	3962.0	4038.3
27.5°	7020.9	6928.6	6185.9	5218.5	4307.3	3913.9	3781.4	3869.7	3905.8	3881.8	3913.9
30°	7370.1	7217.6	6065.5	4817.1	3885.8	3568.6	3592.7	3713.2	3773.4	3809.5	3761.3
32.5°	7739.4	7506.6	5816.6	4399.6	3512.4	3351.9	3408.1	3532.5	3604.8	3644.9	3689.1
35°	8273.3	7731.4	5563.7	3853.7	3243.5	3219.4	3251.5	3319.8	3424.1	3452.2	3464.3
37.5°	8931.7	8072.6	5222.5	3416.1	3034.8	3062.9	3095.0	3119.1	3123.1	3175.3	3155.2
40°	9590.0	8361.6	4724.7	2998.6	2818.0	2970.5	2954.5	2910.3	2874.2	2826.0	2814.0
42.5°	10168.0	8614.5	4170.8	2645.4	2625.3	2874.2	2822.0	2709.6	2625.3	2589.2	2529.0
45°	10818.3	8971.8	3612.8	2424.6	2476.8	2757.8	2741.7	2569.1	2460.7	2332.3	2316.2
47.5°	11661.3	9345.1	3078.9	2195.8	2336.3	2713.6	2721.6	2500.9	2344.3	2171.7	2147.6
50°	12741.2	9883.0	2673.5	2099.4	2252.0	2649.4	2661.4	2408.5	2203.8	2027.2	2011.1
52.5°	13776.8	10433.0	2336.3	1950.9	2195.8	2573.1	2601.2	2324.2	2087.4	1866.6	1878.7
55°	14298.7	10232.3	2047.3	1842.5	2067.3	2448.7	2553.0	2264.0	1910.8	1758.2	1754.2
57.5°	14415.1	9738.5	1818.4	1730.1	1958.9	2316.2	2472.8	2083.4	1830.5	1702.0	1686.0
60°	14033.7	8875.5	1637.8	1609.7	1822.5	2179.7	2288.1	1987.0	1750.2	1645.8	1621.7
62.5°	13094.4	7980.3	1513.4	1553.5	1706.0	2031.2	2171.7	1918.8	1673.9	1601.7	1549.5
65°	10738.1	6563.3	1413.0	1445.1	1585.6	1886.7	2099.4	1842.5	1605.7	1537.4	1533.4
67.5°	7438.4	4524.0	1332.7	1392.9	1489.3	1782.3	2027.2	1758.2	1517.4	1493.3	1461.2
70°	3809.5	2412.6	1228.4	1276.5	1384.9	1649.8	1898.7	1669.9	1425.1	1421.0	1380.9
72.5°	1930.8	1413.0	1107.9	1180.2	1256.5	1477.2	1738.2	1553.5	1308.6	1264.5	1200.3
73°	1669.9	1308.6	1087.9	1152.1	1224.3	1429.1	1690.0	1525.4	1292.6	1228.4	1168.1
75°	1216.3	1031.7	975.5	1039.7	1095.9	1288.6	1529.4	1397.0	1188.2	1120.0	1063.8
77.5°	911.2	794.8	810.9	883.1	931.3	1111.9	1360.8	1264.5	1075.8	983.5	959.4
80°	670.4	606.1	670.4	738.6	774.7	979.5	1240.4	1095.9	907.2	802.8	782.8
82.5°	477.7	441.6	517.8	562.0	578.0	810.9	1116.0	875.1	686.4	549.9	505.8
85°	273.0	269.0	349.2	345.2	357.3	473.7	734.6	582.1	441.6	337.2	329.2
87.5°	120.4	132.5	176.6	140.5	148.5	224.8	313.1	216.8	180.6	100.4	76.3
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)