

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: P480124

Luminaire Tested: **IFLD-S-SA6D-740-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480124  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-740-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

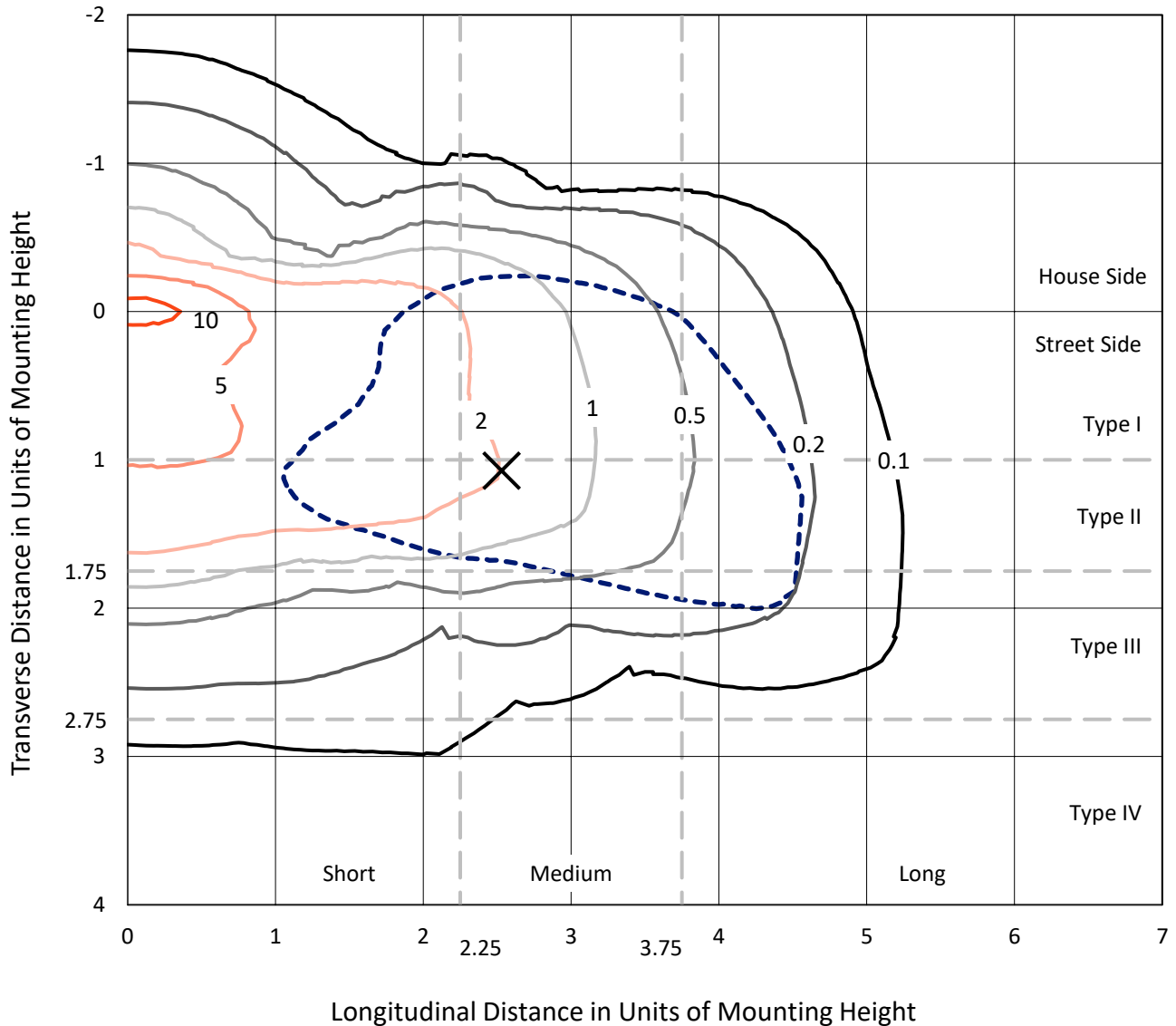
Lumens per Lamp: N/A  
Luminaire Lumens: 45587.3 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2  
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

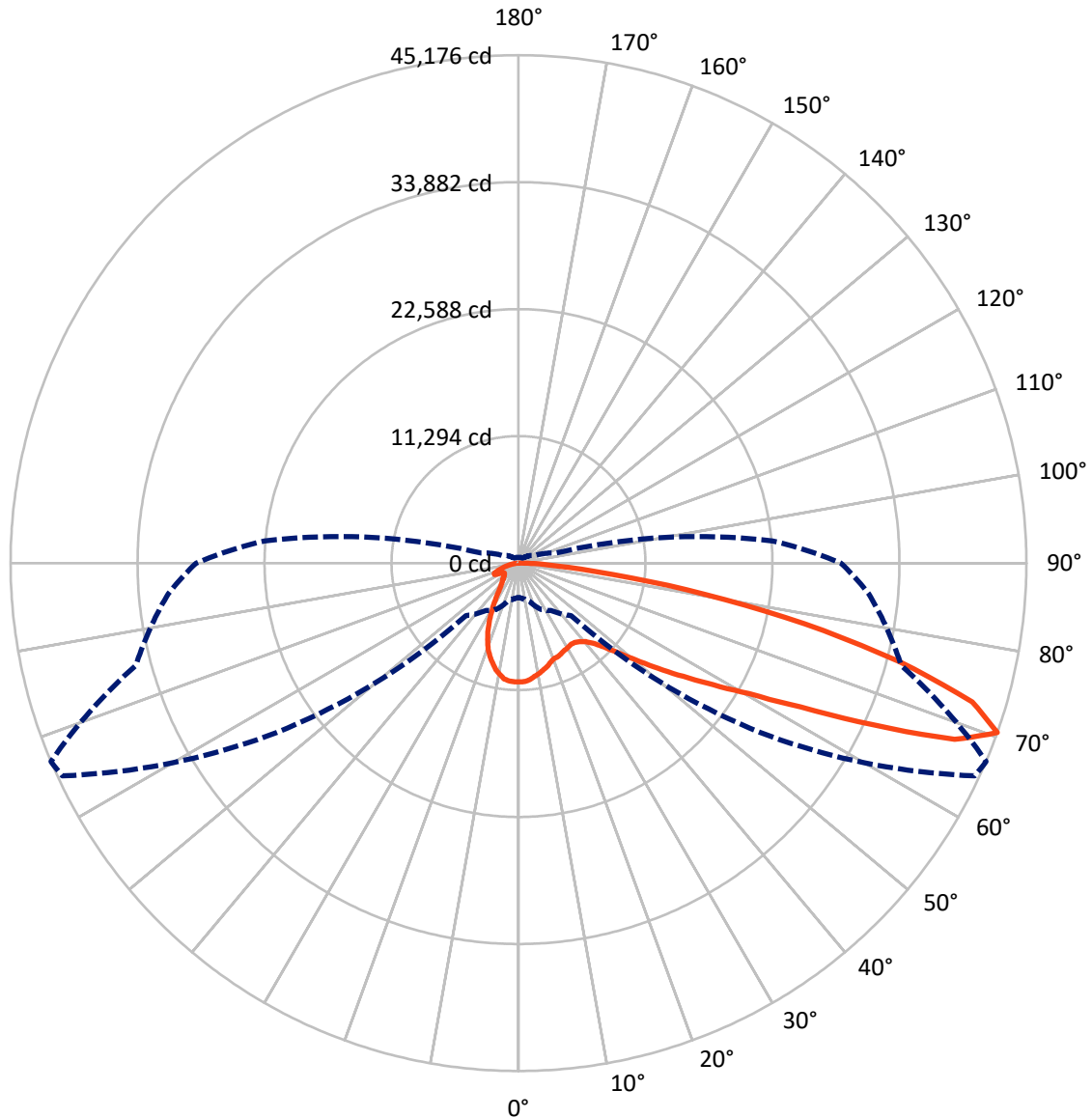
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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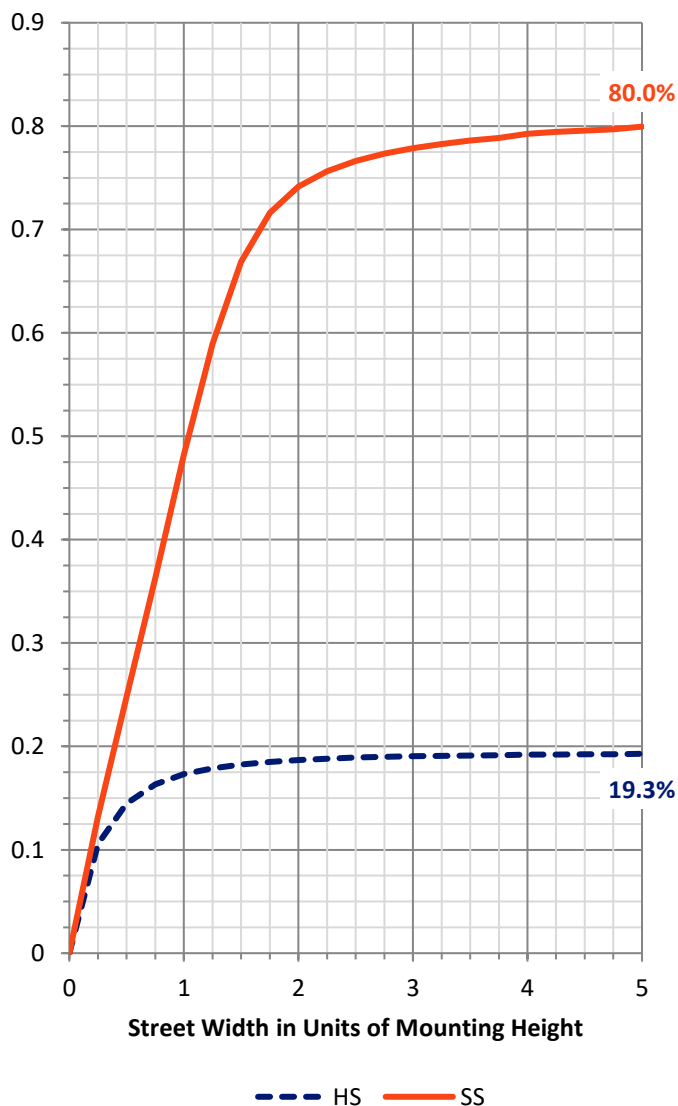
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8878.6	0.0	8878.6
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	36708.8	0.0	36708.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	45587.3	0.0	45587.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	920.8	2.0
10°-20°	2205.3	4.8
20°-30°	2978.1	6.5
30°-40°	3984.9	8.7
40°-50°	5859.8	12.9
50°-60°	9133.9	20.0
60°-70°	11251.4	24.7
70°-80°	7950.1	17.4
80°-90°	1303.1	2.9
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°	45587.3	100.0
0°-180°	45587.3	100.0

**Coefficient of Utilization**

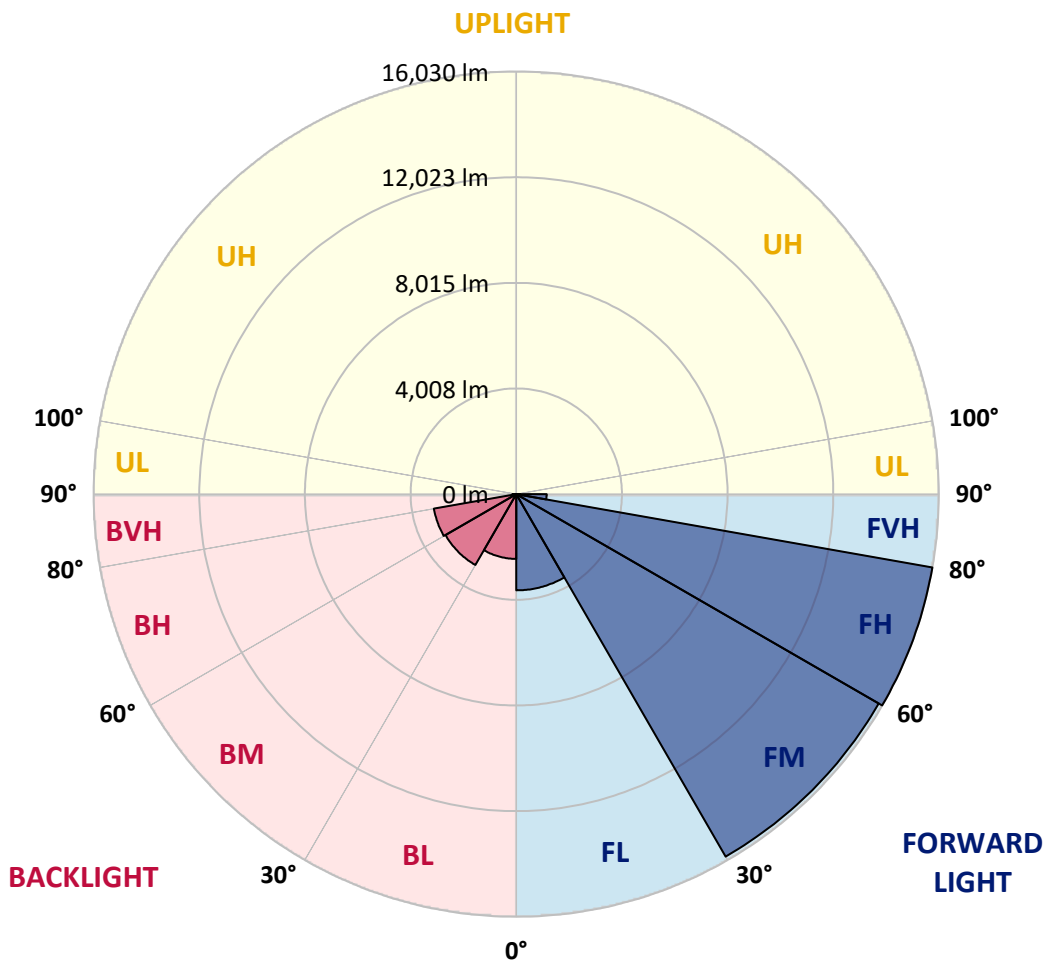


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3648.9	8.0			
FM (30°-60°)	15877.1	34.8			
FH (60°-80°)	16030.0	35.2			G5
FVH (80°-90°)	1152.7	2.5			G5
BL (0°-30°)	2455.2	5.4	B3/2500		
BM (30°-60°)	3101.5	6.8	B3/5000		
BH (60°-80°)	3171.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	150.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3
2.5°	9826.5	9937.6	9978.0	10038.5	10195.0	10311.1	10381.7	10462.5	10558.4	10639.1	10689.6
5°	9140.2	9200.7	9296.6	9362.2	9559.1	9872.0	10083.9	10427.1	10417.1	10543.2	10735.0
7.5°	8473.9	8534.5	8579.9	8711.2	8993.8	9276.4	9665.0	10220.2	10179.8	10472.6	10770.3
10°	8060.1	8014.7	8029.8	8251.9	8473.9	8791.9	9281.5	9846.7	9993.1	10447.3	10871.3
12.5°	7671.5	7621.0	7742.1	7883.4	8156.0	8443.7	9029.1	9538.9	9760.9	10356.5	10916.7
15°	7429.2	7393.9	7545.3	7605.9	7928.9	8272.1	8685.9	9306.7	9549.0	10245.5	10846.0
17.5°	7292.9	7323.2	7378.7	7510.0	7716.9	8009.6	8463.9	9150.2	9256.2	10109.2	10830.9
20°	7318.2	7353.5	7358.6	7414.1	7555.4	7782.5	8246.8	8983.7	9054.4	10083.9	10871.3
22.5°	7520.1	7469.6	7489.8	7454.4	7494.8	7671.5	8080.3	8761.6	9034.2	9872.0	10785.5
25°	7822.9	7752.2	7742.1	7621.0	7545.3	7595.8	8050.0	8706.1	8882.8	9806.4	10780.4
27.5°	8357.9	8251.9	8251.9	8070.2	7762.3	7681.6	7964.2	8615.3	8771.7	9745.8	10664.4
30°	8872.7	8872.7	8877.7	8620.3	8277.1	7878.4	7999.5	8579.9	8680.9	9564.1	10507.9
32.5°	9498.5	9483.4	9458.1	9331.9	8802.0	8206.5	8171.1	8534.5	8585.0	9503.5	10462.5
35°	10109.2	10068.8	10265.6	10154.6	9614.6	8847.4	8347.8	8554.7	8665.7	9412.7	10321.2
37.5°	10568.5	10593.7	11002.5	11073.2	10608.8	9574.2	8847.4	8756.6	8862.6	9543.9	10321.2
40°	11164.0	11264.9	11648.5	11885.7	11603.1	10533.1	9639.8	9094.7	9170.4	9836.6	10543.2
42.5°	11946.3	12032.1	12521.7	12829.5	12748.8	11754.5	10422.1	9801.3	9740.7	10326.2	10876.3
45°	12980.9	12996.1	13490.7	13914.6	14081.2	13031.4	11663.7	10694.6	10644.2	11169.1	11487.0
47.5°	14212.4	14197.3	14505.1	14959.4	15408.6	14555.6	13092.0	12052.3	11870.6	12375.3	12501.5
50°	15403.5	15337.9	15408.6	15989.0	16852.0	16463.4	14828.1	13712.8	13531.1	13808.6	14025.7
52.5°	16059.6	16140.4	15948.6	16715.7	18386.3	18719.4	17129.6	15696.2	15539.8	15676.0	16054.6
55°	15600.3	15766.9	15640.7	16367.5	19057.5	21470.0	20107.3	17992.6	17790.7	17740.3	18361.1
57.5°	13647.1	13950.0	13975.2	15125.9	18825.4	23599.9	24296.4	20702.9	20400.1	19885.3	20526.2
60°	10477.6	10780.4	11012.6	12375.3	16836.9	24871.7	29151.6	24558.8	23559.5	22227.1	22610.7
62.5°	7343.4	7550.3	7782.5	8620.3	12980.9	24124.8	33350.7	29989.4	28147.2	24695.1	25174.5
65°	5349.8	5511.3	5748.6	6243.2	7974.3	19961.0	35298.9	36439.5	34693.2	27834.3	27773.8
67.5°	4027.5	4128.5	4441.4	5233.8	5526.5	12329.9	33280.1	43253.0	41839.8	31321.8	29863.2
70°	3048.4	3134.2	3426.9	4512.0	5163.1	6611.6	26254.6	44772.1	45175.9	35233.2	31266.3
72.5°	2099.6	2195.5	2523.5	3760.0	4915.8	5243.9	16478.5	40673.9	42203.2	36843.2	29762.3
75°	1287.0	1352.6	1544.4	2851.6	4880.5	5127.8	9069.5	33330.5	34950.6	34042.2	26037.6
77.5°	908.5	903.4	938.7	1670.6	4229.4	5158.1	5592.1	24422.5	25997.2	25088.7	17669.6
80°	661.2	666.2	701.5	999.3	2871.8	5243.9	4406.0	16357.4	16826.8	13081.9	6969.9
82.5°	398.7	418.9	504.7	676.3	1726.1	4734.1	4072.9	9089.7	8504.2	4199.1	1917.9
85°	212.0	212.0	297.8	429.0	918.6	3532.9	3921.5	4325.3	3623.8	1302.1	711.6
87.5°	50.5	50.5	85.8	171.6	368.4	1690.8	2674.9	1721.0	1377.8	439.1	292.7
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°	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3	10553.3
2.5°	10669.4	10608.8	10684.5	10533.1	10412.0	10417.1	10230.3	10220.2	10195.0	10063.8	10109.2
5°	10790.5	10740.1	10654.3	10487.7	10220.2	9952.7	9791.2	9584.3	9498.5	9453.1	9473.3
7.5°	10906.6	10815.8	10568.5	10336.3	9922.4	9417.7	9125.0	8847.4	8494.1	8453.8	8383.1
10°	10936.9	10745.1	10427.1	9932.5	9382.4	8822.2	8156.0	7641.2	7368.6	7156.7	7075.9
12.5°	10891.5	10810.7	10200.0	9564.1	8731.3	7853.2	7075.9	6349.2	5844.4	5582.0	5511.3
15°	10886.4	10745.1	9947.7	9003.9	7939.0	6793.3	5688.0	4814.9	4284.9	4067.9	4067.9
17.5°	10891.5	10553.3	9649.9	8438.6	7005.3	5455.8	4239.5	3522.8	3230.1	3199.8	3225.0
20°	10790.5	10412.0	9337.0	7772.4	5834.4	4098.2	3078.7	2786.0	2786.0	2826.3	2841.5
22.5°	10699.7	10200.0	8842.4	6949.7	4643.3	2967.6	2503.3	2417.5	2513.4	2584.1	2614.4
25°	10573.5	10023.4	8337.7	6096.8	3532.9	2392.3	2175.3	2195.5	2286.3	2412.5	2402.4
27.5°	10391.8	9715.5	7737.1	5107.6	2629.5	2064.2	2008.7	2018.8	2114.7	2170.2	2160.1
30°	10184.9	9402.6	7181.9	4123.4	2084.4	1892.6	1887.6	1912.8	1928.0	1958.2	1953.2
32.5°	9922.4	8988.7	6591.4	3204.9	1877.5	1796.7	1776.6	1761.4	1776.6	1771.5	1756.4
35°	9735.7	8766.7	5990.8	2442.8	1761.4	1710.9	1695.8	1670.6	1650.4	1620.1	1615.0
37.5°	9685.2	8544.6	5359.9	1993.6	1670.6	1645.3	1594.9	1549.4	1524.2	1509.1	1499.0
40°	9654.9	8398.2	4744.2	1751.3	1594.9	1569.6	1509.1	1448.5	1423.3	1408.1	1413.2
42.5°	9760.9	8317.5	4118.4	1630.2	1529.2	1483.8	1418.2	1347.6	1342.5	1332.4	1347.6
45°	10134.4	8418.4	3538.0	1544.4	1463.6	1387.9	1302.1	1266.8	1261.8	1251.7	1261.8
47.5°	10982.3	8670.8	3043.4	1488.9	1393.0	1327.4	1236.5	1186.0	1181.0	1176.0	1176.0
50°	12153.2	9448.0	2629.5	1423.3	1347.6	1256.7	1170.9	1115.4	1105.3	1085.1	1085.1
52.5°	13990.3	10755.2	2382.2	1387.9	1266.8	1191.1	1100.3	1039.7	1014.5	994.3	994.3
55°	16059.6	12375.3	2336.8	1327.4	1181.0	1110.3	1029.6	969.0	943.8	918.6	908.5
57.5°	18416.6	14520.3	2659.8	1287.0	1120.4	1029.6	938.7	883.2	863.0	837.8	827.7
60°	20612.0	16660.2	3664.1	1226.4	1064.9	953.9	863.0	807.5	782.3	757.1	757.1
62.5°	23150.7	19309.9	5365.0	1226.4	1014.5	873.1	782.3	741.9	726.8	701.5	696.5
65°	26153.7	22050.4	6606.5	1302.1	999.3	802.5	706.6	666.2	651.1	635.9	630.9
67.5°	28440.0	23625.1	5682.9	1504.0	1064.9	741.9	630.9	605.6	595.5	580.4	570.3
70°	28682.2	22666.2	3426.9	1625.1	1130.5	681.3	565.3	540.0	540.0	524.9	514.8
72.5°	26507.0	20112.4	2306.5	1448.5	1024.5	610.7	499.7	479.5	469.4	459.3	454.2
75°	22181.7	17058.9	1822.0	1155.8	787.3	504.7	434.0	413.9	398.7	393.7	383.6
77.5°	14898.8	11088.3	1347.6	903.4	580.4	408.8	363.4	343.2	328.1	323.0	307.9
80°	5723.3	4224.4	868.1	656.1	408.8	323.0	287.7	267.5	257.4	242.3	232.2
82.5°	1685.7	1367.7	484.5	403.8	262.4	222.1	206.9	191.8	176.6	161.5	156.5
85°	696.5	625.8	297.8	212.0	161.5	131.2	121.1	106.0	90.8	80.8	70.7
87.5°	323.0	267.5	136.3	80.8	55.5	30.3	15.1	5.0	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)