

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: P480422

Luminaire Tested: **IFLD-S-SA3E-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480422
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

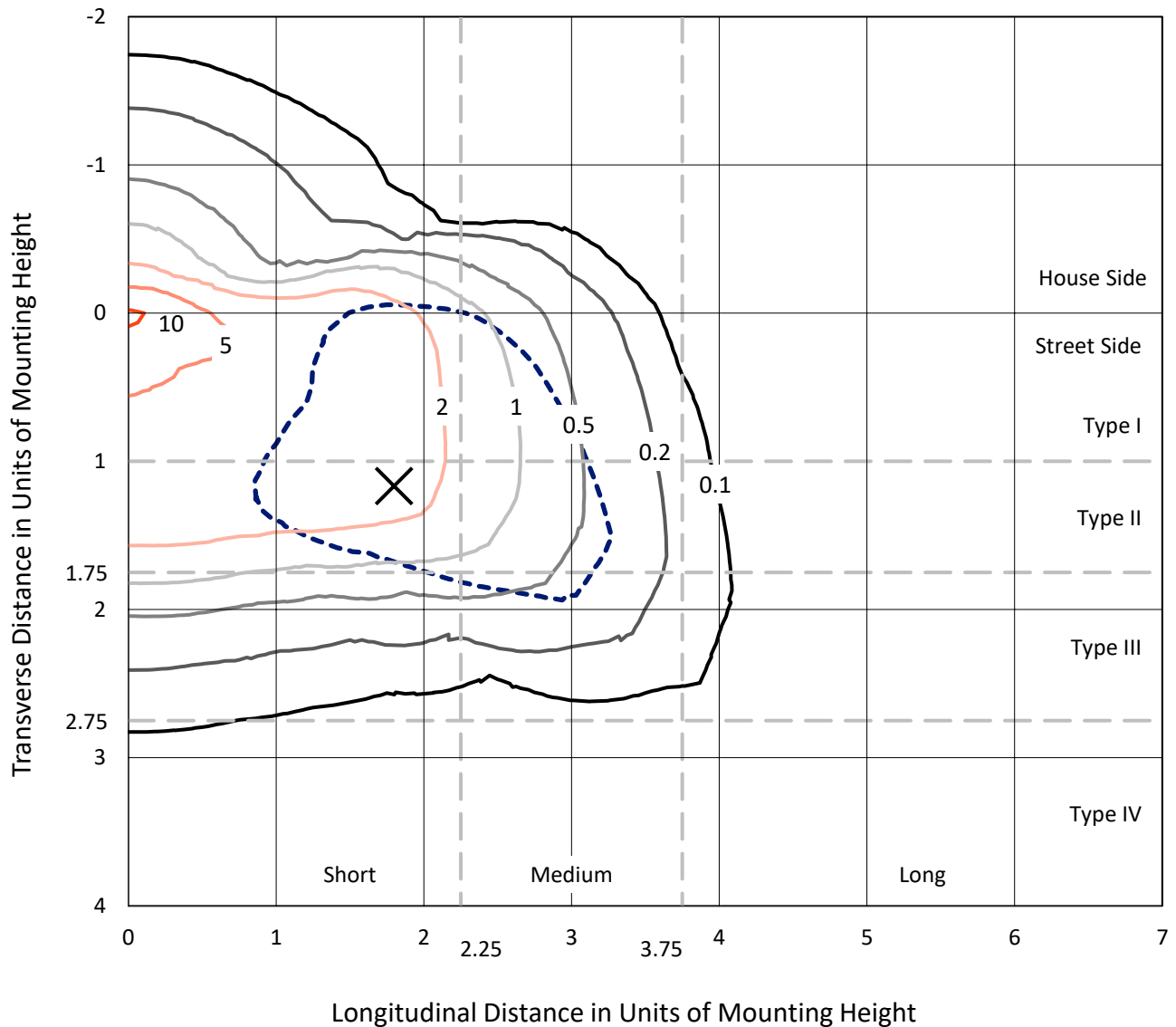
Lumens per Lamp: N/A
Luminaire Lumens: 24235.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

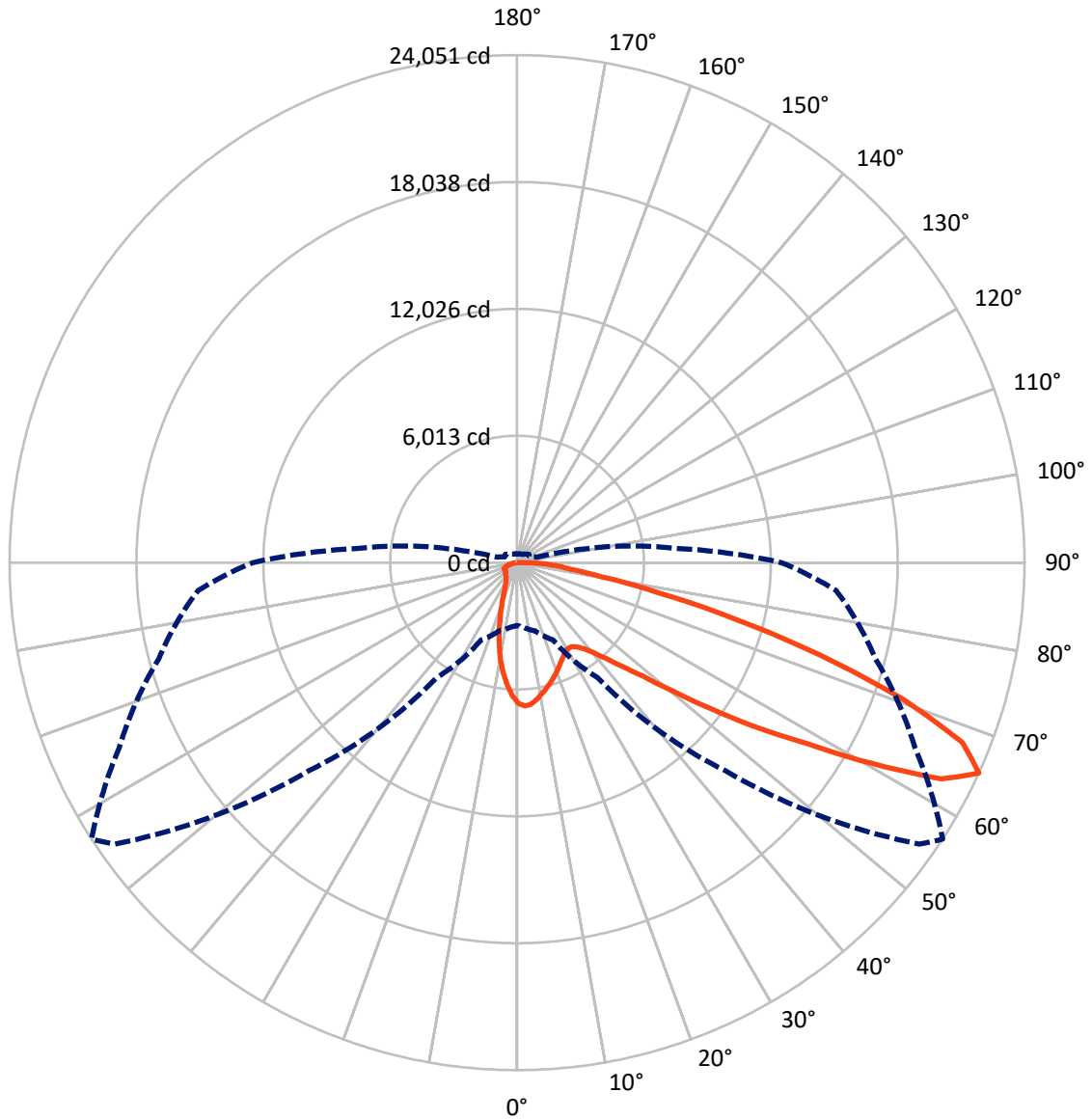
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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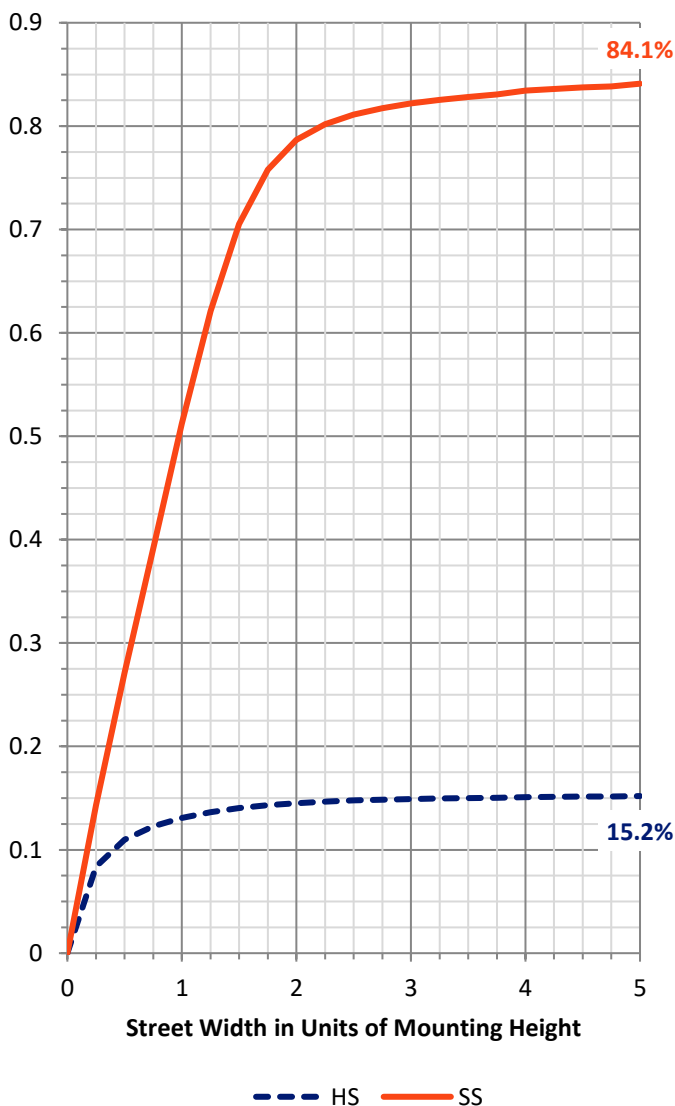
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3716.8	0.0	3716.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	20519.1	0.0	20519.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	24235.9	0.0	24235.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.1	2.3
10°-20°	1201.1	5.0
20°-30°	1553.0	6.4
30°-40°	2089.8	8.6
40°-50°	3332.2	13.7
50°-60°	5885.5	24.3
60°-70°	6474.8	26.7
70°-80°	2708.5	11.2
80°-90°	432.9	1.8
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°	24235.9	100.0
0°-180°	24235.9	100.0

Coefficient of Utilization



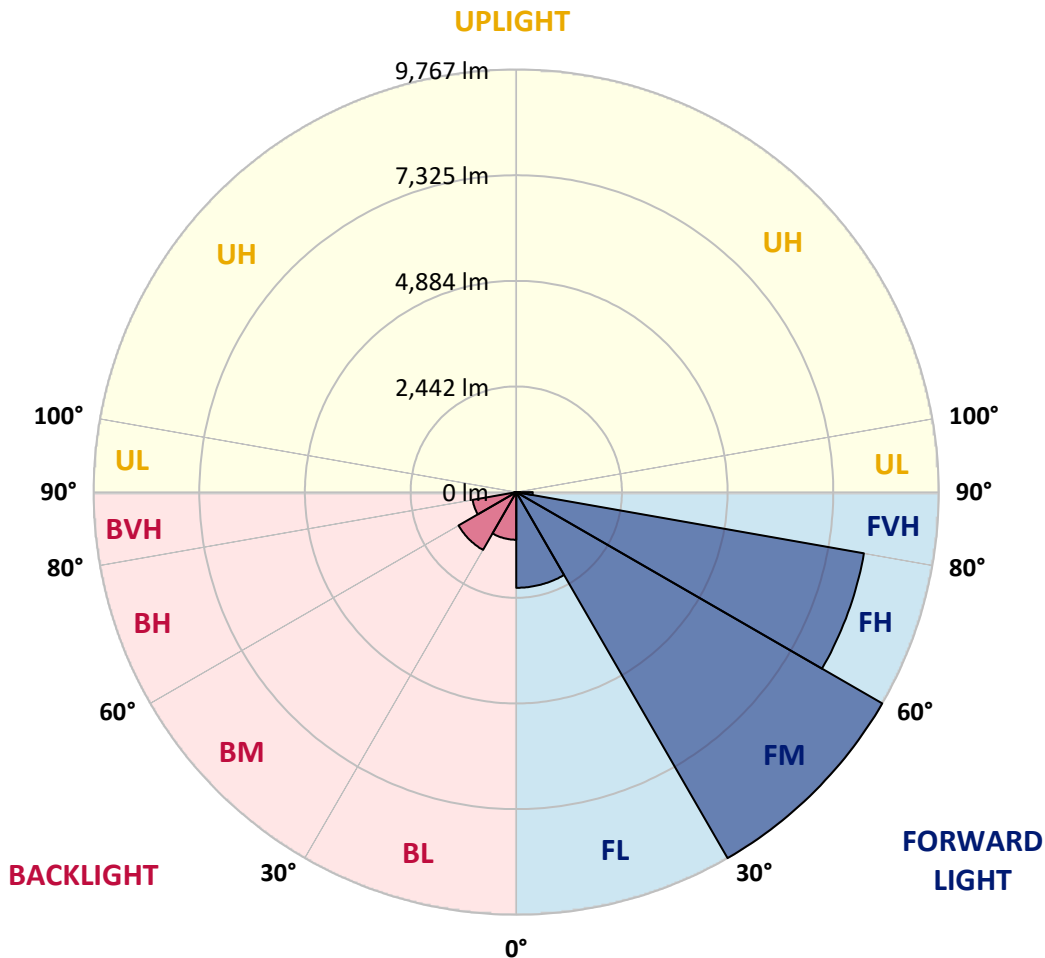
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2211.4	9.1			
FM (30°-60°)	9767.0	40.3			
FH (60°-80°)	8158.5	33.7			G4/12000
FVH (80°-90°)	382.1	1.6			G3/500
BL (0°-30°)	1100.7	4.5	B3/2500		
BM (30°-60°)	1540.4	6.4	B2/2500		
BH (60°-80°)	1024.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	50.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5
2.5°	6844.5	6855.4	6855.4	6877.2	6803.6	6839.0	6833.6	6800.9	6811.8	6754.5	6697.2
5°	6650.9	6642.7	6686.3	6691.8	6749.1	6765.4	6779.1	6757.2	6762.7	6637.3	6582.7
7.5°	6154.6	6151.9	6225.5	6288.2	6408.2	6520.0	6593.6	6571.8	6601.8	6522.7	6394.6
10°	5565.6	5628.3	5704.7	5767.4	5988.3	6130.1	6320.9	6340.0	6454.6	6435.5	6203.7
12.5°	5123.8	5151.1	5208.4	5388.3	5590.1	5824.6	6097.3	6121.9	6233.7	6288.2	6086.4
15°	4761.2	4785.7	4859.3	4992.9	5219.3	5497.4	5843.7	5906.5	6130.1	6149.1	5933.7
17.5°	4496.6	4515.7	4564.8	4698.4	4883.9	5241.1	5568.3	5680.1	5974.6	6067.3	5775.6
20°	4393.0	4352.1	4379.4	4463.9	4649.4	4924.8	5347.4	5445.6	5821.9	6004.6	5625.6
22.5°	4346.7	4311.2	4327.6	4322.1	4469.4	4665.7	5110.2	5213.8	5677.4	5931.0	5492.0
25°	4382.1	4382.1	4365.8	4352.1	4368.5	4496.6	4853.9	5014.8	5483.8	5868.3	5355.6
27.5°	4573.0	4499.4	4507.6	4450.3	4433.9	4433.9	4739.3	4834.8	5421.1	5832.8	5243.8
30°	4695.7	4731.2	4733.9	4649.4	4564.8	4412.1	4633.0	4725.7	5369.3	5876.5	5178.4
32.5°	5009.3	4992.9	4946.6	4930.2	4804.8	4633.0	4684.8	4747.5	5339.3	5974.6	5197.5
35°	5322.9	5314.7	5317.4	5309.3	5178.4	4924.8	4823.9	4908.4	5393.8	6146.4	5262.9
37.5°	5647.4	5669.2	5761.9	5761.9	5622.9	5347.4	5213.8	5189.3	5592.9	6427.3	5418.3
40°	5971.9	6026.4	6143.7	6329.1	6132.8	5876.5	5661.0	5622.9	5832.8	6803.6	5791.9
42.5°	6282.8	6372.7	6604.5	6880.0	6814.5	6558.2	6271.9	6228.2	6326.4	7362.6	6312.8
45°	6680.9	6757.2	7122.6	7545.3	7635.3	7409.0	7073.6	7038.1	7032.7	8180.7	7029.9
47.5°	7286.3	7368.1	7733.5	8158.9	8437.0	8472.5	8096.1	8058.0	7927.1	9285.1	8079.8
50°	8044.3	8178.0	8486.1	8982.4	9386.0	9765.0	9658.7	9546.9	9290.5	10569.4	9410.5
52.5°	8597.9	8761.5	9178.7	9814.1	10525.8	11128.5	11510.2	11510.2	10921.2	11979.2	11011.2
55°	8745.1	8843.3	9369.6	10288.6	11507.5	13031.8	13830.8	13770.8	12862.8	13462.7	12873.7
57.5°	8158.9	8287.0	8925.1	9887.7	12022.9	14812.5	16135.0	16148.7	14984.3	15186.1	14711.6
60°	6544.5	6585.4	7338.1	8625.2	11526.6	16246.8	19281.9	19333.7	17397.6	16721.3	15646.9
62.5°	4523.9	4654.8	5222.0	6350.9	9549.6	16085.9	22316.9	22573.2	19330.9	17531.2	15794.2
65°	2977.8	3056.8	3359.5	4046.7	6648.2	13942.6	23260.4	24051.2	20808.9	17577.6	15177.9
67.5°	2159.7	2173.3	2263.3	2617.8	3994.9	10026.8	21648.8	22764.1	21362.5	17190.3	13732.6
70°	1745.2	1756.1	1788.8	2015.2	2579.6	6274.6	17656.6	19404.6	19701.8	15355.1	11060.3
72.5°	1418.0	1431.6	1472.5	1685.2	2127.0	3490.4	12911.8	15041.5	16026.0	11360.2	7351.7
75°	1115.3	1126.2	1224.4	1434.3	1998.8	2396.9	8565.2	10651.2	10784.9	6640.0	3441.3
77.5°	763.5	782.6	902.6	1216.2	1881.6	2097.0	5339.3	6822.7	6121.9	2598.7	1183.5
80°	485.4	512.7	583.6	921.7	1663.4	2001.5	3321.4	4074.0	2680.5	889.0	569.9
82.5°	286.3	313.6	384.5	597.2	1306.2	1857.0	2339.7	2549.6	1257.1	455.4	343.6
85°	158.2	177.2	231.8	359.9	766.3	1649.8	1873.4	1829.7	719.9	242.7	215.4
87.5°	51.8	60.0	84.5	144.5	316.3	777.2	1123.5	1055.3	373.6	111.8	84.5
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°	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5	6664.5
2.5°	6659.1	6650.9	6528.2	6435.5	6277.3	6146.4	6094.6	6023.7	6021.0	5969.2	5955.5
5°	6498.2	6413.7	6225.5	6045.5	5764.7	5576.5	5404.7	5284.7	5235.6	5129.3	5104.7
7.5°	6290.9	6179.1	5890.1	5552.0	5222.0	4927.5	4660.3	4393.0	4243.0	4191.2	4134.0
10°	6075.5	5879.2	5451.1	5072.0	4611.2	4158.5	3738.6	3362.3	3157.7	3013.2	2950.5
12.5°	5903.7	5641.9	5096.6	4529.4	3921.3	3315.9	2827.8	2432.4	2200.6	2091.5	2042.4
15°	5710.1	5363.8	4709.3	3992.2	3234.1	2546.9	2069.7	1758.8	1666.1	1614.3	1606.1
17.5°	5505.6	5104.7	4289.4	3463.2	2563.3	1917.0	1608.9	1483.4	1442.5	1420.7	1409.8
20°	5314.7	4873.0	3858.6	2874.1	2007.0	1538.0	1393.4	1328.0	1325.3	1336.2	1333.5
22.5°	5044.8	4570.3	3433.2	2328.8	1603.4	1338.9	1246.2	1229.8	1246.2	1259.8	1265.3
25°	4892.0	4322.1	2958.7	1848.8	1325.3	1188.9	1158.9	1153.5	1178.0	1194.4	1191.7
27.5°	4733.9	4065.8	2516.9	1480.7	1161.7	1082.6	1077.1	1082.6	1107.1	1131.7	1128.9
30°	4611.2	3861.3	2102.4	1238.0	1036.2	1006.2	1000.8	1006.2	1019.9	1022.6	1022.6
32.5°	4510.3	3618.6	1750.7	1074.4	959.9	935.3	940.8	938.1	940.8	943.5	946.2
35°	4450.3	3474.1	1461.6	973.5	897.1	878.1	875.3	867.2	869.9	872.6	869.9
37.5°	4578.5	3403.2	1232.6	902.6	853.5	837.2	831.7	826.2	818.1	818.1	818.1
40°	4772.1	3365.0	1093.5	856.2	820.8	801.7	785.3	779.9	779.9	782.6	785.3
42.5°	5156.6	3427.7	998.0	820.8	779.9	758.1	741.7	744.4	752.6	760.8	755.3
45°	5712.8	3618.6	954.4	793.5	755.3	725.4	714.4	711.7	719.9	733.5	744.4
47.5°	6440.9	3915.8	938.1	769.0	739.0	698.1	684.5	692.6	703.5	722.6	714.4
50°	7632.6	4583.9	951.7	747.2	714.4	684.5	668.1	659.9	668.1	681.7	687.2
52.5°	9189.6	5797.4	1003.5	736.3	698.1	673.5	646.3	632.6	640.8	651.7	651.7
55°	11052.1	7455.3	1148.0	722.6	670.8	657.2	627.2	599.9	605.4	605.4	602.6
57.5°	12693.7	8707.0	1319.8	703.5	654.5	635.4	597.2	564.5	559.0	561.7	564.5
60°	13429.9	9039.7	1401.6	698.1	654.5	608.1	556.3	523.6	515.4	509.9	509.9
62.5°	13301.8	8464.3	1235.3	673.5	670.8	586.3	518.1	482.7	471.8	460.8	463.6
65°	12527.3	7643.5	973.5	640.8	673.5	572.6	479.9	444.5	425.4	411.8	409.0
67.5°	11112.1	6525.5	771.7	616.3	646.3	548.1	447.2	406.3	389.9	376.3	370.9
70°	8693.3	5115.7	670.8	583.6	580.8	488.1	409.0	373.6	349.0	332.7	332.7
72.5°	5636.5	3234.1	575.4	518.1	501.7	409.0	354.5	332.7	313.6	300.0	300.0
75°	2552.4	1502.5	463.6	433.6	409.0	327.2	300.0	289.1	272.7	259.1	259.1
77.5°	916.2	640.8	346.3	340.9	305.4	253.6	242.7	234.5	223.6	210.0	210.0
80°	512.7	406.3	259.1	248.1	212.7	188.2	174.5	174.5	169.1	160.9	158.2
82.5°	324.5	264.5	190.9	166.3	139.1	125.4	120.0	117.3	114.5	103.6	100.9
85°	204.5	180.0	125.4	98.2	81.8	62.7	60.0	57.3	51.8	46.4	46.4
87.5°	92.7	103.6	49.1	30.0	21.8	13.6	8.2	2.7	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)