

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: P480637

Luminaire Tested: **IFLD-M-SA4E-827-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480637  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-827-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

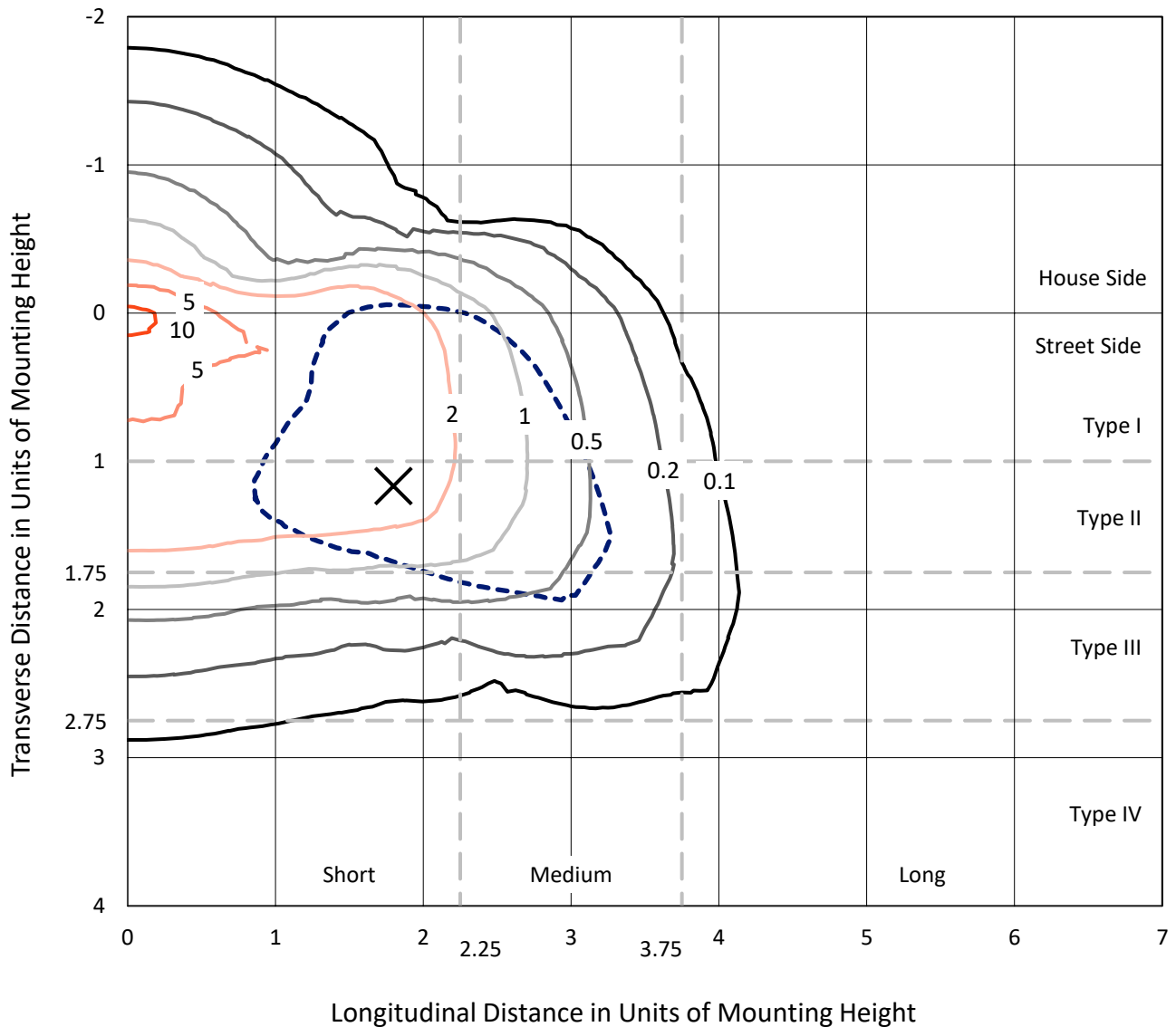
Lumens per Lamp: N/A  
Luminaire Lumens: 26260.7 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8  
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

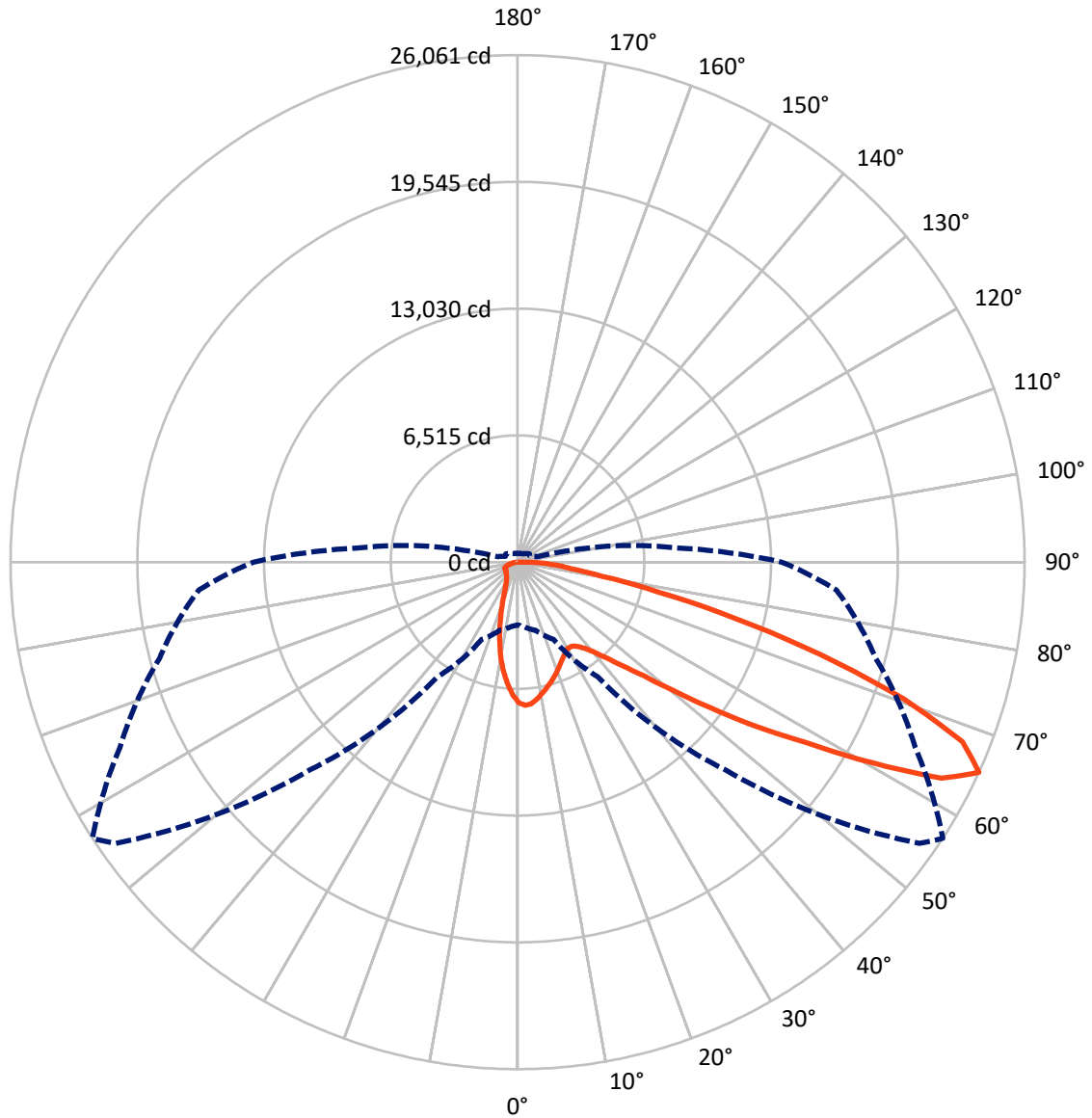
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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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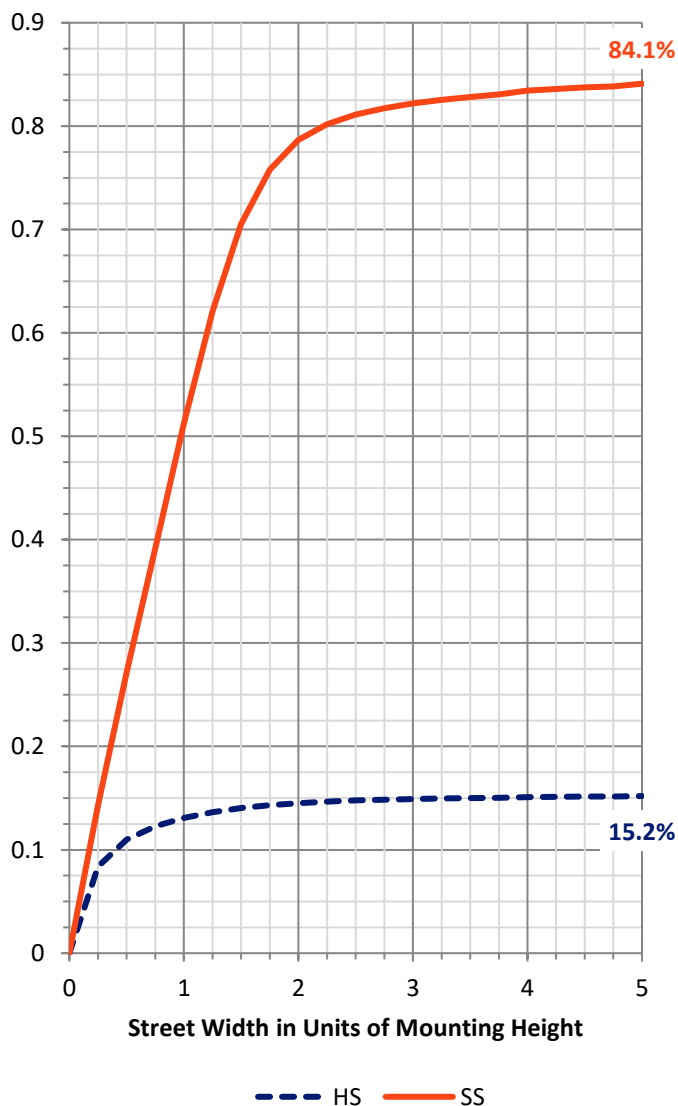
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4027.3	0.0	4027.3
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	22233.4	0.0	22233.4
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	26260.7	0.0	26260.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.7	2.3
10°-20°	1301.5	5.0
20°-30°	1682.7	6.4
30°-40°	2264.3	8.6
40°-50°	3610.6	13.7
50°-60°	6377.2	24.3
60°-70°	7015.8	26.7
70°-80°	2934.8	11.2
80°-90°	469.0	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°	26260.7	100.0
0°-180°	26260.7	100.0

**Coefficient of Utilization**



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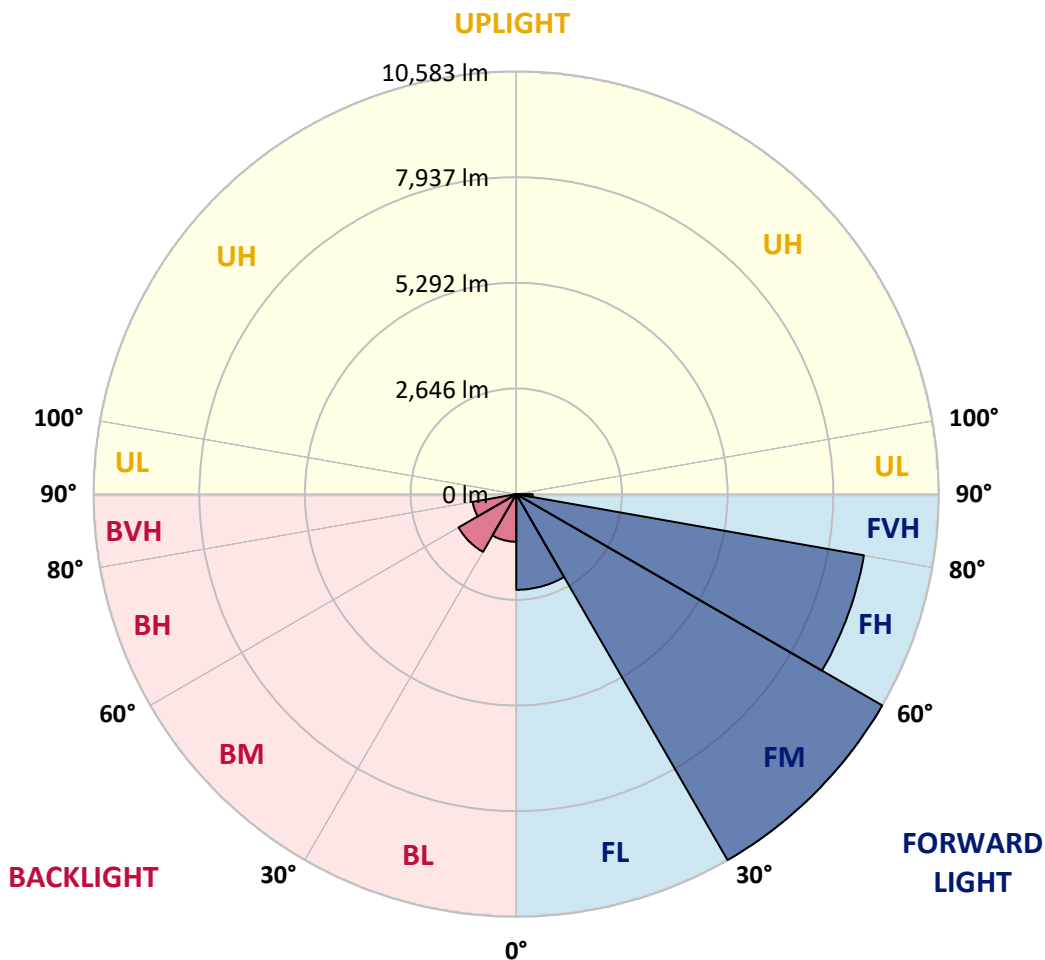
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2396.2	9.1			
FM (30°-60°)	10583.0	40.3			
FH (60°-80°)	8840.1	33.7			G4/12000
FVH (80°-90°)	414.0	1.6			G3/500
BL (0°-30°)	1192.7	4.5	B3/2500		
BM (30°-60°)	1669.1	6.4	B2/2500		
BH (60°-80°)	1110.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	55.0	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°	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3
2.5°	7416.3	7428.2	7428.2	7451.8	7372.0	7410.4	7404.5	7369.1	7380.9	7318.8	7256.8
5°	7206.6	7197.7	7245.0	7250.9	7312.9	7330.6	7345.4	7321.8	7327.7	7191.8	7132.7
7.5°	6668.8	6665.8	6745.6	6813.6	6943.6	7064.7	7144.5	7120.9	7153.4	7067.7	6928.8
10°	6030.6	6098.5	6181.3	6249.2	6488.6	6642.2	6849.0	6869.7	6993.8	6973.1	6722.0
12.5°	5551.9	5581.5	5643.5	5838.5	6057.2	6311.3	6606.7	6633.3	6754.5	6813.6	6594.9
15°	5158.9	5185.5	5265.3	5410.1	5655.3	5956.7	6332.0	6399.9	6642.2	6662.9	6429.5
17.5°	4872.3	4893.0	4946.2	5091.0	5291.9	5679.0	6033.5	6154.7	6473.8	6574.2	6258.1
20°	4760.0	4715.7	4745.3	4836.9	5037.8	5336.2	5794.2	5900.6	6308.3	6506.3	6095.6
22.5°	4709.8	4671.4	4689.1	4683.2	4842.8	5055.5	5537.1	5649.4	6151.7	6426.5	5950.8
25°	4748.2	4748.2	4730.5	4715.7	4733.5	4872.3	5259.4	5433.7	5941.9	6358.5	5803.1
27.5°	4955.1	4875.3	4884.1	4822.1	4804.4	4804.4	5135.3	5238.7	5874.0	6320.1	5681.9
30°	5088.0	5126.4	5129.4	5037.8	4946.2	4780.7	5020.1	5120.5	5817.8	6367.4	5611.0
32.5°	5427.8	5410.1	5359.9	5342.1	5206.2	5020.1	5076.2	5144.2	5785.3	6473.8	5631.7
35°	5767.6	5758.7	5761.7	5752.8	5611.0	5336.2	5226.9	5318.5	5844.4	6659.9	5702.6
37.5°	6119.2	6142.9	6243.3	6243.3	6092.6	5794.2	5649.4	5622.8	6060.1	6964.3	5871.0
40°	6470.8	6529.9	6657.0	6857.9	6645.2	6367.4	6134.0	6092.6	6320.1	7372.0	6275.8
42.5°	6807.7	6905.2	7156.3	7454.7	7383.8	7106.1	6795.8	6748.6	6854.9	7977.7	6840.2
45°	7239.1	7321.8	7717.7	8175.7	8273.2	8028.0	7664.5	7626.1	7620.2	8864.1	7617.3
47.5°	7895.0	7983.6	8379.6	8840.5	9141.9	9180.3	8772.6	8731.2	8589.4	10060.8	8754.8
50°	8716.4	8861.2	9195.1	9732.8	10170.1	10580.8	10465.6	10344.5	10066.7	11452.5	10196.7
52.5°	9316.2	9493.5	9945.6	10634.0	11405.2	12058.2	12471.9	12471.9	11833.6	12980.1	11931.1
55°	9475.8	9582.1	10152.4	11148.1	12468.9	14120.6	14986.3	14921.3	13937.4	14587.4	13949.2
57.5°	8840.5	8979.4	9670.8	10713.8	13027.3	16050.0	17483.1	17497.8	16236.2	16454.8	15940.7
60°	7091.3	7135.6	7951.1	9345.8	12489.6	17604.2	20892.8	20948.9	18851.1	18118.3	16954.2
62.5°	4901.9	5043.7	5658.3	6881.5	10347.4	17429.9	24181.4	24459.1	20946.0	18995.9	17113.7
65°	3226.5	3312.2	3640.2	4384.8	7203.6	15107.5	25203.7	26060.6	22547.4	19046.1	16445.9
67.5°	2340.1	2354.9	2452.4	2836.5	4328.7	10864.5	23457.5	24666.0	23147.2	18626.5	14879.9
70°	1891.0	1902.8	1938.3	2183.5	2795.2	6798.8	19131.8	21025.8	21347.8	16638.0	11984.3
72.5°	1536.5	1551.2	1595.5	1826.0	2304.7	3782.0	13990.6	16298.2	17364.9	12309.3	7965.9
75°	1208.5	1220.3	1326.7	1554.2	2165.8	2597.2	9280.8	11541.1	11685.9	7194.7	3728.9
77.5°	827.3	848.0	978.0	1317.8	2038.8	2272.2	5785.3	7392.7	6633.3	2815.8	1282.3
80°	525.9	555.5	632.3	998.7	1802.4	2168.8	3598.8	4414.3	2904.5	963.2	617.5
82.5°	310.2	339.8	416.6	647.1	1415.3	2012.2	2535.1	2762.7	1362.1	493.4	372.3
85°	171.4	192.1	251.2	390.0	830.3	1787.6	2029.9	1982.6	780.0	263.0	233.4
87.5°	56.1	65.0	91.6	156.6	342.7	842.1	1217.3	1143.5	404.8	121.1	91.6
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°	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3	7221.3
2.5°	7215.4	7206.6	7073.6	6973.1	6801.8	6659.9	6603.8	6527.0	6524.0	6467.9	6453.1
5°	7041.1	6949.5	6745.6	6550.6	6246.3	6042.4	5856.2	5726.2	5673.1	5557.8	5531.2
7.5°	6816.5	6695.4	6382.2	6015.8	5658.3	5339.2	5049.6	4760.0	4597.5	4541.4	4479.3
10°	6583.1	6370.4	5906.5	5495.8	4996.4	4505.9	4050.9	3643.2	3421.6	3265.0	3197.0
12.5°	6397.0	6113.3	5522.4	4907.8	4248.9	3592.9	3064.0	2635.6	2384.5	2266.3	2213.1
15°	6187.2	5811.9	5102.8	4325.7	3504.3	2759.7	2242.6	1905.8	1805.3	1749.2	1740.3
17.5°	5965.6	5531.2	4647.8	3752.5	2777.4	2077.2	1743.3	1607.4	1563.0	1539.4	1527.6
20°	5758.7	5280.1	4180.9	3114.3	2174.7	1666.5	1509.9	1438.9	1436.0	1447.8	1444.9
22.5°	5466.2	4952.1	3720.0	2523.3	1737.4	1450.8	1350.3	1332.6	1350.3	1365.1	1371.0
25°	5300.8	4683.2	3205.9	2003.3	1436.0	1288.3	1255.8	1249.8	1276.4	1294.2	1291.2
27.5°	5129.4	4405.5	2727.2	1604.4	1258.7	1173.0	1167.1	1173.0	1199.6	1226.2	1223.3
30°	4996.4	4183.9	2278.1	1341.4	1122.8	1090.3	1084.4	1090.3	1105.1	1108.0	1108.0
32.5°	4887.1	3920.9	1896.9	1164.2	1040.1	1013.5	1019.4	1016.4	1019.4	1022.3	1025.3
35°	4822.1	3764.3	1583.7	1054.8	972.1	951.4	948.5	939.6	942.6	945.5	942.6
37.5°	4961.0	3687.5	1335.5	978.0	924.8	907.1	901.2	895.3	886.4	886.4	886.4
40°	5170.8	3646.1	1184.8	927.8	889.4	868.7	851.0	845.0	845.0	848.0	851.0
42.5°	5587.4	3714.1	1081.4	889.4	845.0	821.4	803.7	806.6	815.5	824.4	818.5
45°	6190.1	3920.9	1034.2	859.8	818.5	786.0	774.1	771.2	780.0	794.8	806.6
47.5°	6979.0	4243.0	1016.4	833.2	800.7	756.4	741.6	750.5	762.3	783.0	774.1
50°	8270.2	4966.9	1031.2	809.6	774.1	741.6	723.9	715.0	723.9	738.7	744.6
52.5°	9957.4	6281.7	1087.3	797.8	756.4	729.8	700.3	685.5	694.4	706.2	706.2
55°	11975.5	8078.2	1243.9	783.0	726.9	712.1	679.6	650.0	655.9	655.9	653.0
57.5°	13754.2	9434.4	1430.1	762.3	709.1	688.4	647.1	611.6	605.7	608.7	611.6
60°	14552.0	9794.9	1518.7	756.4	709.1	658.9	602.8	567.3	558.4	552.5	552.5
62.5°	14413.1	9171.4	1338.5	729.8	726.9	635.3	561.4	523.0	511.2	499.3	502.3
65°	13574.0	8282.1	1054.8	694.4	729.8	620.5	520.0	481.6	460.9	446.2	443.2
67.5°	12040.5	7070.6	836.2	667.8	700.3	593.9	484.6	440.3	422.5	407.8	401.8
70°	9419.6	5543.0	726.9	632.3	629.4	528.9	443.2	404.8	378.2	360.5	360.5
72.5°	6107.4	3504.3	623.4	561.4	543.7	443.2	384.1	360.5	339.8	325.0	325.0
75°	2765.6	1628.0	502.3	469.8	443.2	354.6	325.0	313.2	295.5	280.7	280.7
77.5°	992.8	694.4	375.2	369.3	330.9	274.8	263.0	254.1	242.3	227.5	227.5
80°	555.5	440.3	280.7	268.9	230.5	203.9	189.1	189.1	183.2	174.3	171.4
82.5°	351.6	286.6	206.8	180.2	150.7	135.9	130.0	127.1	124.1	112.3	109.3
85°	221.6	195.0	135.9	106.4	88.6	68.0	65.0	62.0	56.1	50.2	50.2
87.5°	100.5	112.3	53.2	32.5	23.6	14.8	8.9	3.0	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)