

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: P484263

Luminaire Tested: **IFLD-M-SA4D-722-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484263
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

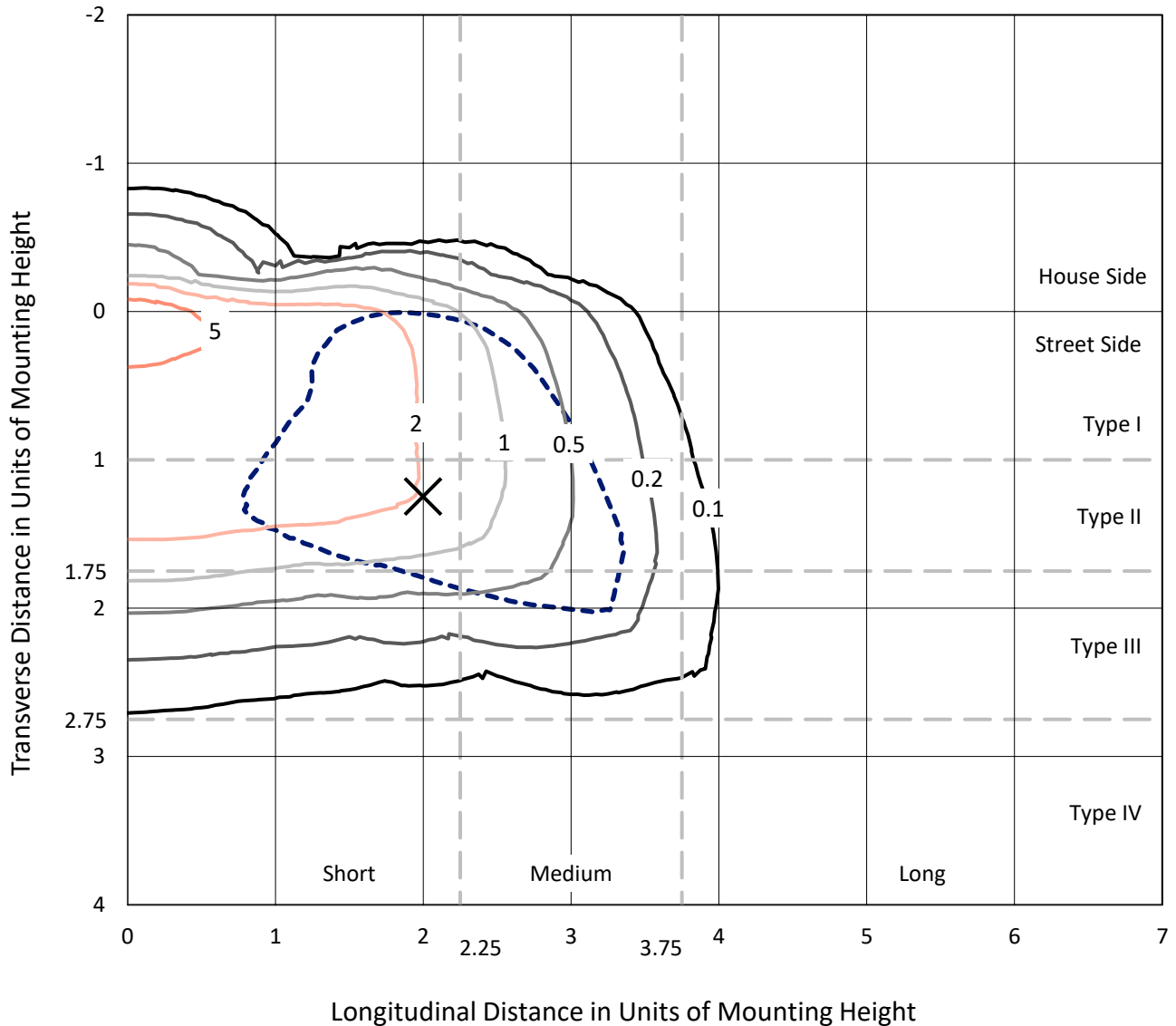
Lumens per Lamp: N/A
Luminaire Lumens: 19271.4 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.7
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

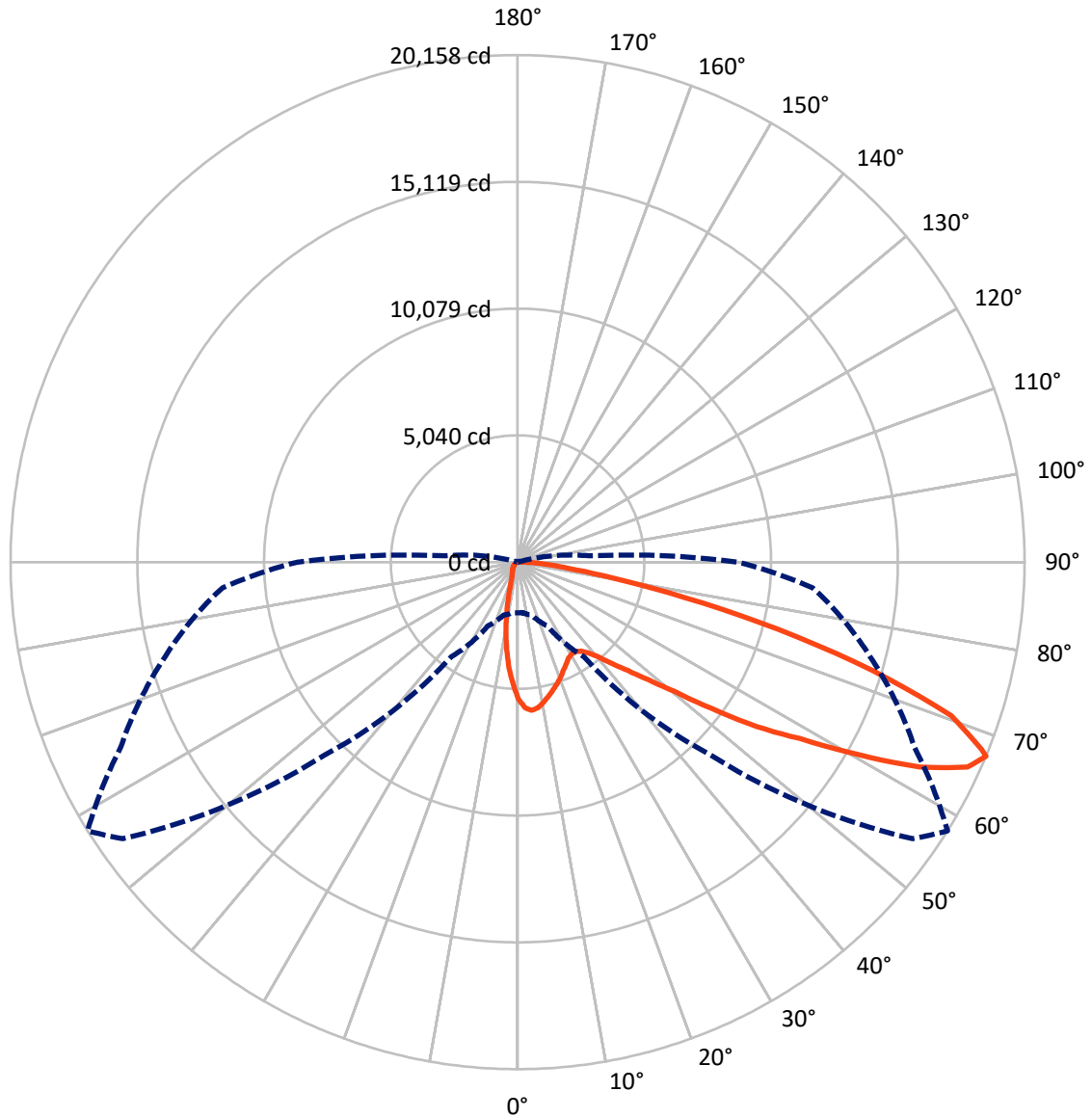
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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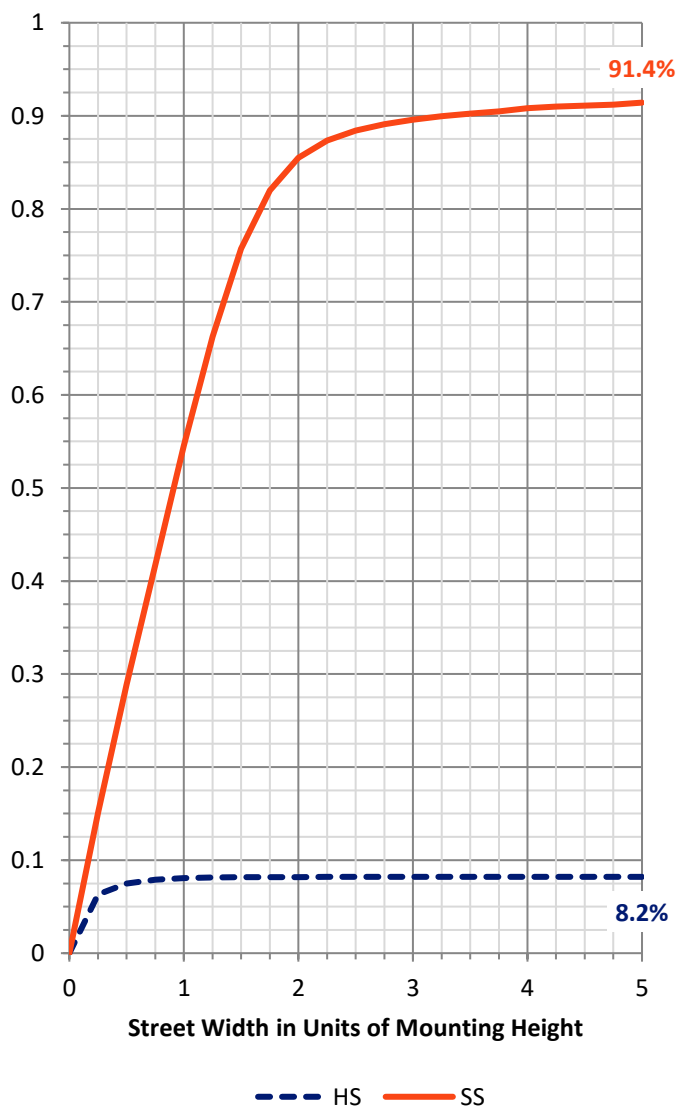
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1592.9	0.0	1592.9
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	17678.5	0.0	17678.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	19271.4	0.0	19271.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.2	2.2
10°-20°	898.6	4.7
20°-30°	1192.2	6.2
30°-40°	1652.0	8.6
40°-50°	2695.6	14.0
50°-60°	4738.0	24.6
60°-70°	5247.7	27.2
70°-80°	2174.7	11.3
80°-90°	239.4	1.2
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°	19271.4	100.0
0°-180°	19271.4	100.0

Coefficient of Utilization



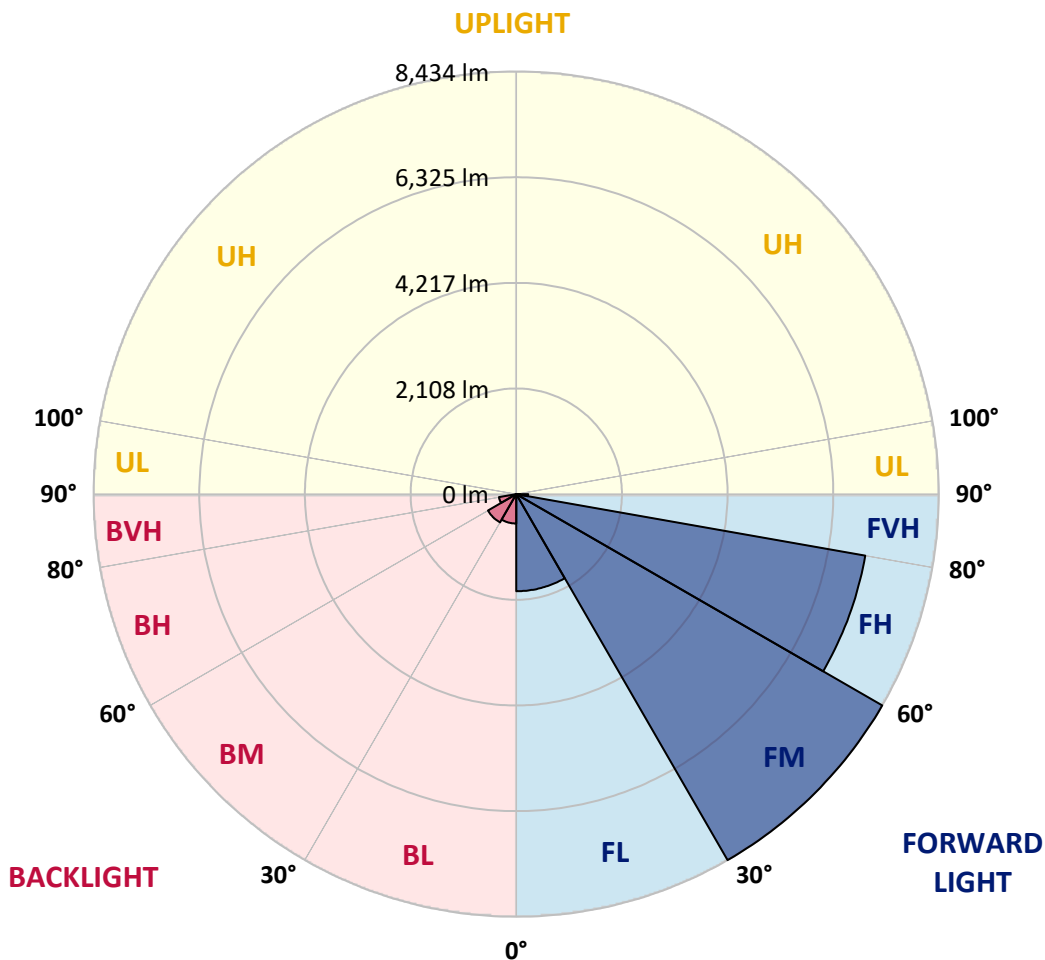
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.3	10.1			
FM (30°-60°)	8433.5	43.8			
FH (60°-80°)	7072.2	36.7			G3/7500
FVH (80°-90°)	235.5	1.2			G3/500
BL (0°-30°)	586.7	3.0	B2/1000		
BM (30°-60°)	652.1	3.4	B1/1000		
BH (60°-80°)	350.2	1.8	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8
2.5°	5940.8	5961.3	5979.2	5946.0	5974.1	5933.2	5828.3	5805.2	5787.3	5631.3	5541.7
5°	5938.3	5915.3	5933.2	5948.5	5910.1	5940.8	5915.3	5917.8	5848.7	5708.0	5457.3
7.5°	5541.7	5531.5	5541.7	5615.9	5700.3	5766.9	5805.2	5843.6	5797.6	5587.8	5344.7
10°	5007.0	5058.2	5086.3	5219.3	5349.8	5472.6	5592.9	5664.5	5651.7	5567.3	5221.9
12.5°	4633.4	4618.1	4720.4	4807.4	4937.9	5186.1	5395.9	5462.4	5539.2	5421.5	5060.7
15°	4288.0	4247.1	4308.5	4459.5	4682.1	4879.1	5173.3	5273.1	5370.3	5401.0	4973.7
17.5°	3958.0	3978.5	4042.4	4178.0	4387.8	4664.1	4940.5	5083.7	5316.6	5275.6	4843.2
20°	3799.4	3842.9	3865.9	3935.0	4080.8	4357.1	4769.0	4884.2	5132.4	5273.1	4715.3
22.5°	3807.1	3807.1	3753.3	3794.3	3927.3	4142.2	4536.2	4664.1	5058.2	5140.0	4600.2
25°	3888.9	3837.8	3840.3	3791.7	3848.0	3965.7	4326.4	4482.5	4907.2	5152.8	4538.8
27.5°	3950.3	3940.1	3924.7	3911.9	3840.3	3858.2	4188.3	4316.2	4848.4	5137.5	4444.1
30°	4172.9	4126.9	4111.5	4083.4	3988.7	3901.7	4078.3	4239.4	4802.3	5173.3	4390.4
32.5°	4359.7	4367.4	4380.2	4298.3	4216.4	4001.5	4109.0	4236.9	4769.0	5255.2	4444.1
35°	4595.1	4628.3	4633.4	4607.9	4520.9	4308.5	4236.9	4346.9	4825.3	5401.0	4449.2
37.5°	4953.3	4917.4	5014.7	5024.9	4963.5	4682.1	4533.7	4577.2	4991.6	5633.8	4643.7
40°	5186.1	5229.6	5411.2	5523.8	5418.9	5163.1	4963.5	4955.8	5232.1	5999.7	4884.2
42.5°	5444.5	5541.7	5741.3	5984.3	5971.5	5733.6	5531.5	5498.2	5659.4	6529.3	5265.4
45°	5797.6	5884.6	6163.4	6529.3	6728.9	6526.7	6222.3	6155.8	6178.8	7250.8	5915.3
47.5°	6383.5	6360.4	6762.1	7122.9	7450.4	7294.3	7163.8	6969.4	6951.4	8100.2	6813.3
50°	7046.1	7041.0	7399.2	7808.5	8187.2	8491.7	8274.2	8061.8	8067.0	9254.1	7870.0
52.5°	7675.5	7775.3	8161.6	8568.4	9218.3	9545.8	9755.6	9671.1	9264.3	10285.2	9000.8
55°	8008.1	8095.1	8478.9	9179.9	10205.9	11047.6	11615.6	11544.0	10758.5	11446.7	10116.3
57.5°	7693.4	7752.3	8271.6	9190.1	10896.7	12774.6	13319.6	13230.0	12303.8	12334.5	11464.6
60°	6375.8	6467.9	7240.6	8317.7	10628.0	14105.0	15665.7	15530.1	13711.0	13457.7	12332.0
62.5°	4416.0	4477.4	5111.9	6452.5	9353.9	14568.1	17881.4	17955.6	15194.9	14332.7	12590.4
65°	2860.4	2855.3	3218.6	4126.9	6629.1	13166.0	19191.3	19651.9	16627.7	14465.8	12511.1
67°	2021.2	2013.5	2185.0	2799.0	4590.0	10848.0	19168.3	20158.4	17405.5	14504.1	11776.8
67.5°	1865.1	1857.5	2021.2	2573.9	4142.2	10088.2	18881.7	19897.5	17679.2	14450.4	11454.4
70°	1448.1	1427.6	1489.0	1773.0	2412.7	6524.2	16159.5	18277.9	17111.3	13109.8	9146.6
72.5°	1046.4	1069.5	1166.7	1455.8	1893.3	3510.3	12316.6	14780.5	14291.8	9880.9	5812.9
75°	729.2	749.6	905.7	1187.1	1737.2	2128.7	8327.9	10720.1	9955.1	5454.7	2476.6
77.5°	381.2	406.8	578.2	949.2	1578.6	1647.7	4976.3	6797.9	5275.6	1941.9	683.1
80°	176.5	189.3	289.1	672.9	1320.2	1448.1	2901.3	3781.5	2110.8	434.9	235.4
82.5°	76.8	84.4	133.0	386.3	936.4	1266.5	1796.1	1982.8	765.0	140.7	145.8
85°	15.4	17.9	51.2	204.7	452.9	767.6	1261.3	1176.9	383.8	69.1	115.1
87.5°	0.0	0.0	12.8	58.8	122.8	227.7	534.7	534.7	117.7	35.8	43.5
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°	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8
2.5°	5462.4	5370.3	5168.2	4981.4	4848.4	4697.4	4497.8	4408.3	4375.0	4329.0	4259.9
5°	5319.1	5206.6	4861.2	4513.2	4132.0	3842.9	3535.8	3356.8	3221.2	3136.7	3108.6
7.5°	5117.0	4886.7	4421.1	3863.3	3369.5	2939.7	2474.1	2159.4	1957.3	1875.4	1798.6
10°	4955.8	4656.5	3947.8	3254.4	2596.9	1967.5	1443.0	1166.7	956.9	877.6	867.3
12.5°	4746.0	4387.8	3505.1	2632.7	1806.3	1171.8	798.3	693.4	634.5	624.3	616.6
15°	4572.0	4144.8	3085.6	2039.1	1169.2	731.7	621.7	596.1	580.8	575.7	578.2
17.5°	4454.4	3883.8	2655.7	1483.9	770.1	598.7	573.1	557.8	550.1	547.5	539.8
20°	4221.5	3663.8	2231.0	1038.8	601.2	552.6	532.2	519.4	511.7	509.1	506.6
22.5°	4088.5	3384.9	1806.3	724.1	534.7	501.5	486.1	475.9	463.1	455.4	452.9
25°	3955.4	3180.2	1427.6	562.9	486.1	463.1	440.1	427.3	406.8	396.6	394.0
27.5°	3799.4	2978.1	1100.2	488.7	437.5	414.5	391.5	371.0	345.4	335.2	330.0
30°	3709.8	2781.1	829.0	437.5	401.7	371.0	342.8	317.3	289.1	271.2	266.1
32.5°	3663.8	2602.0	621.7	399.1	363.3	330.0	294.2	263.5	237.9	222.6	220.0
35°	3607.5	2428.0	488.7	363.3	327.5	291.7	255.9	225.1	199.6	186.8	181.7
37.5°	3666.3	2325.7	406.8	335.2	299.3	258.4	220.0	189.3	168.9	156.1	153.5
40°	3827.5	2241.2	353.1	309.6	271.2	227.7	191.9	161.2	143.3	133.0	127.9
42.5°	4075.7	2241.2	319.8	284.0	245.6	199.6	163.7	140.7	122.8	112.6	110.0
45°	4526.0	2310.3	291.7	258.4	214.9	171.4	140.7	117.7	99.8	89.5	87.0
47.5°	5157.9	2469.0	268.6	235.4	191.9	151.0	122.8	99.8	81.9	71.6	69.1
50°	6007.4	2829.7	245.6	207.2	171.4	130.5	102.3	79.3	64.0	53.7	51.2
52.5°	7066.6	3341.4	222.6	191.9	145.8	110.0	81.9	64.0	48.6	40.9	38.4
55°	8187.2	3968.2	194.4	171.4	125.4	92.1	66.5	48.6	35.8	30.7	28.1
57.5°	9315.5	4451.8	171.4	148.4	102.3	74.2	53.7	38.4	25.6	20.5	17.9
60°	9914.2	4497.8	148.4	122.8	81.9	58.8	40.9	28.1	17.9	12.8	10.2
62.5°	10006.3	4088.5	127.9	99.8	66.5	46.1	28.1	20.5	10.2	5.1	5.1
65°	9533.0	3407.9	110.0	79.3	51.2	33.3	20.5	12.8	5.1	2.6	0.0
67°	8765.4	2855.3	94.7	66.5	40.9	25.6	15.4	7.7	2.6	0.0	0.0
67.5°	8468.6	2701.8	89.5	61.4	38.4	23.0	12.8	7.7	2.6	0.0	0.0
70°	6572.8	1929.1	66.5	43.5	28.1	17.9	10.2	5.1	0.0	0.0	0.0
72.5°	4027.1	1128.3	51.2	30.7	20.5	12.8	7.7	2.6	0.0	0.0	0.0
75°	1688.6	388.9	43.5	23.0	15.4	7.7	5.1	2.6	0.0	0.0	0.0
77.5°	440.1	145.8	30.7	15.4	10.2	7.7	5.1	2.6	0.0	0.0	0.0
80°	179.1	66.5	20.5	10.2	10.2	7.7	5.1	2.6	0.0	0.0	0.0
82.5°	117.7	30.7	12.8	10.2	7.7	5.1	2.6	0.0	0.0	0.0	0.0
85°	89.5	17.9	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	38.4	10.2	7.7	5.1	5.1	0.0	0.0	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)