

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: P482092

Luminaire Tested: **IFLD-S-SA2C-750-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482092
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

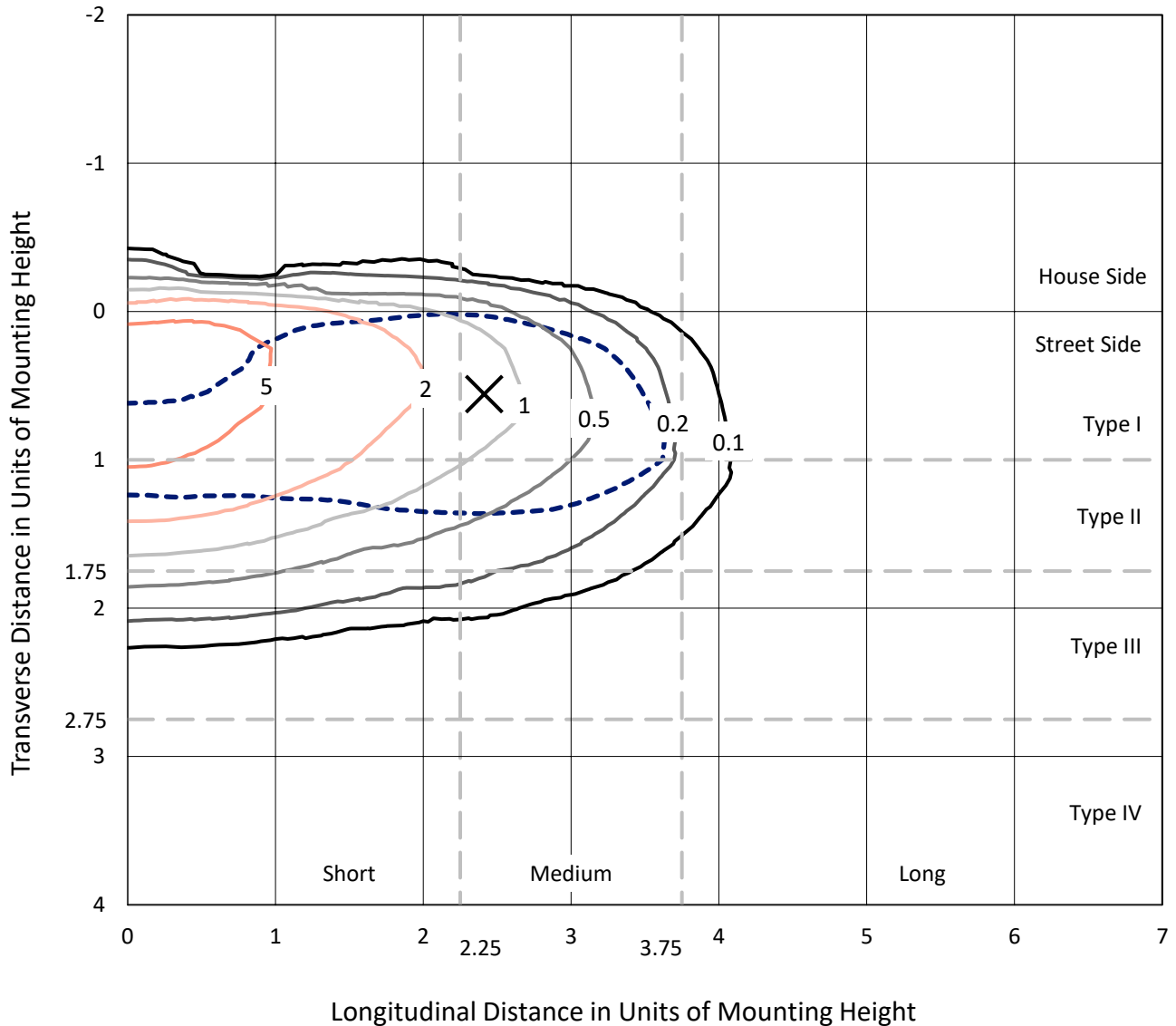
Lumens per Lamp: N/A
Luminaire Lumens: 11430.6 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

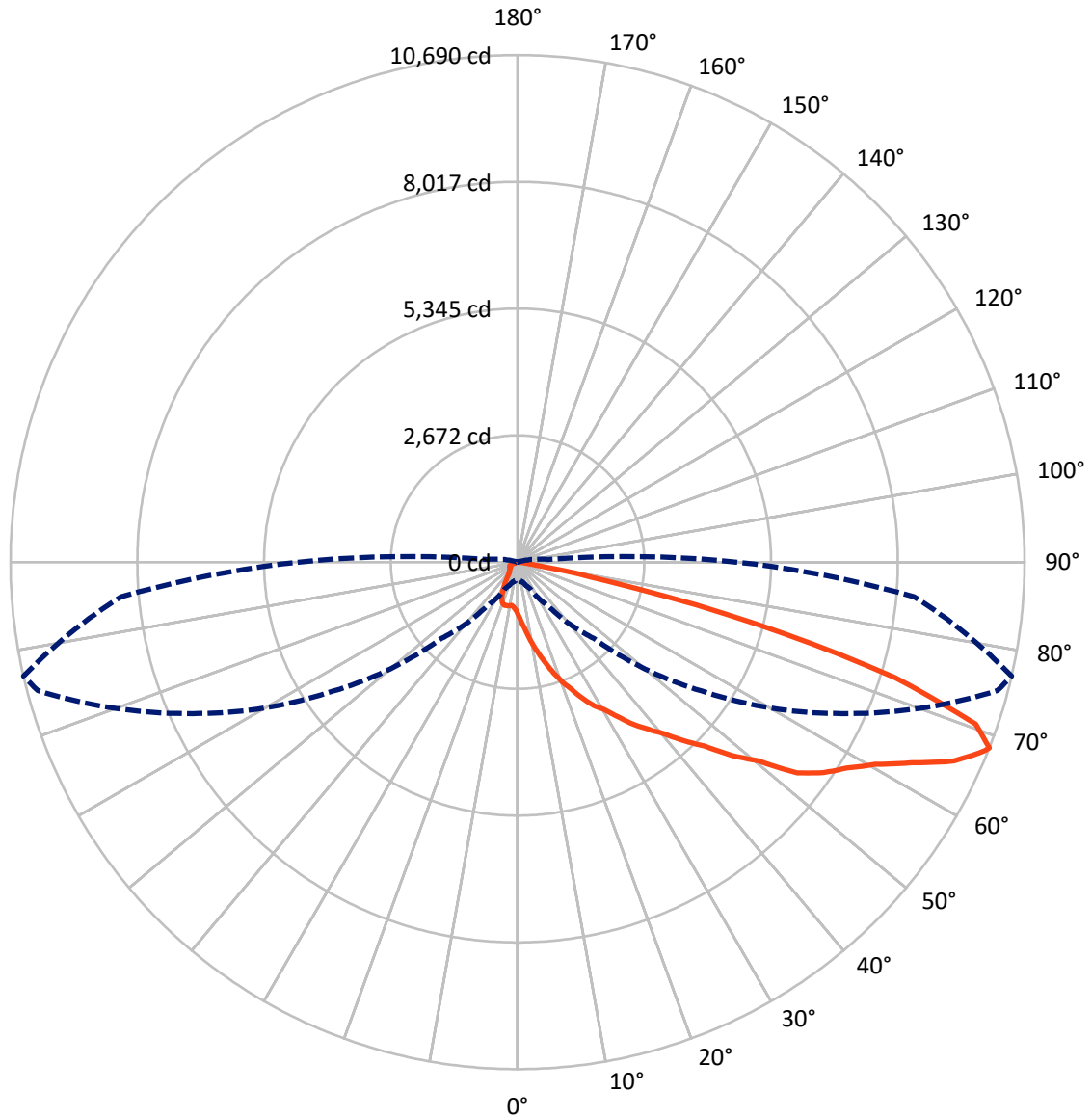
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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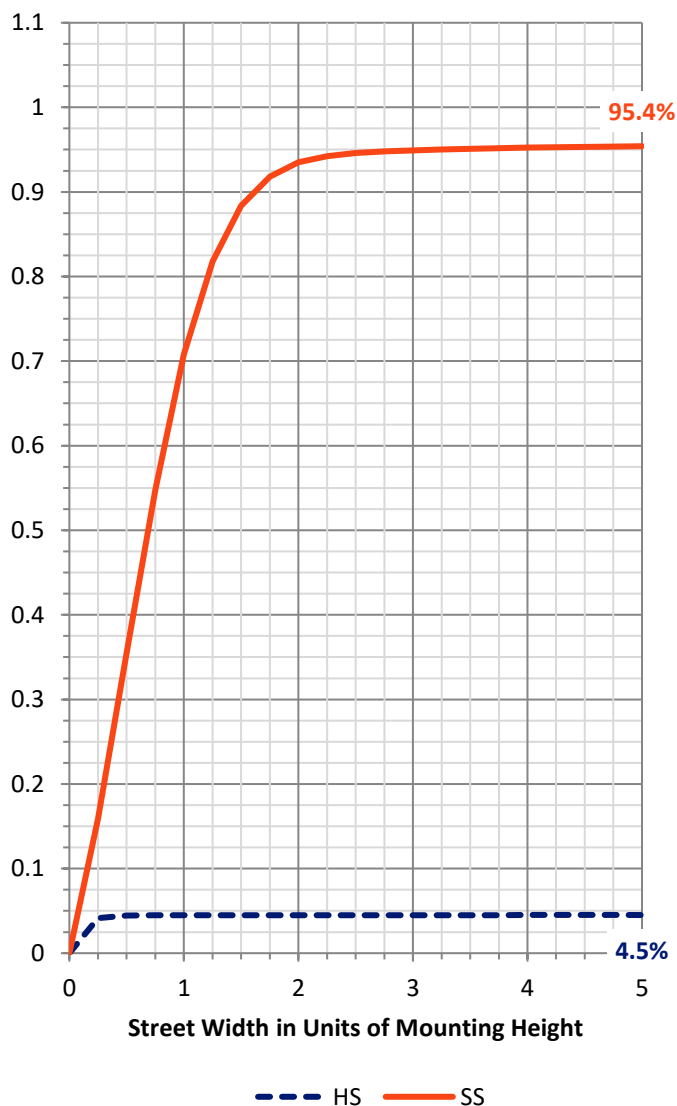
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	518.4	0.0	518.4
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	10912.2	0.0	10912.2
	% Fixture	95.5	0.0	95.5
Total	Lumens	11430.6	0.0	11430.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	1.1
10°-20°	471.6	4.1
20°-30°	913.9	8.0
30°-40°	1593.3	13.9
40°-50°	2333.5	20.4
50°-60°	2741.5	24.0
60°-70°	2315.0	20.3
70°-80°	897.3	7.9
80°-90°	36.5	0.3
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°	11430.6	100.0
0°-180°	11430.6	100.0

Coefficient of Utilization



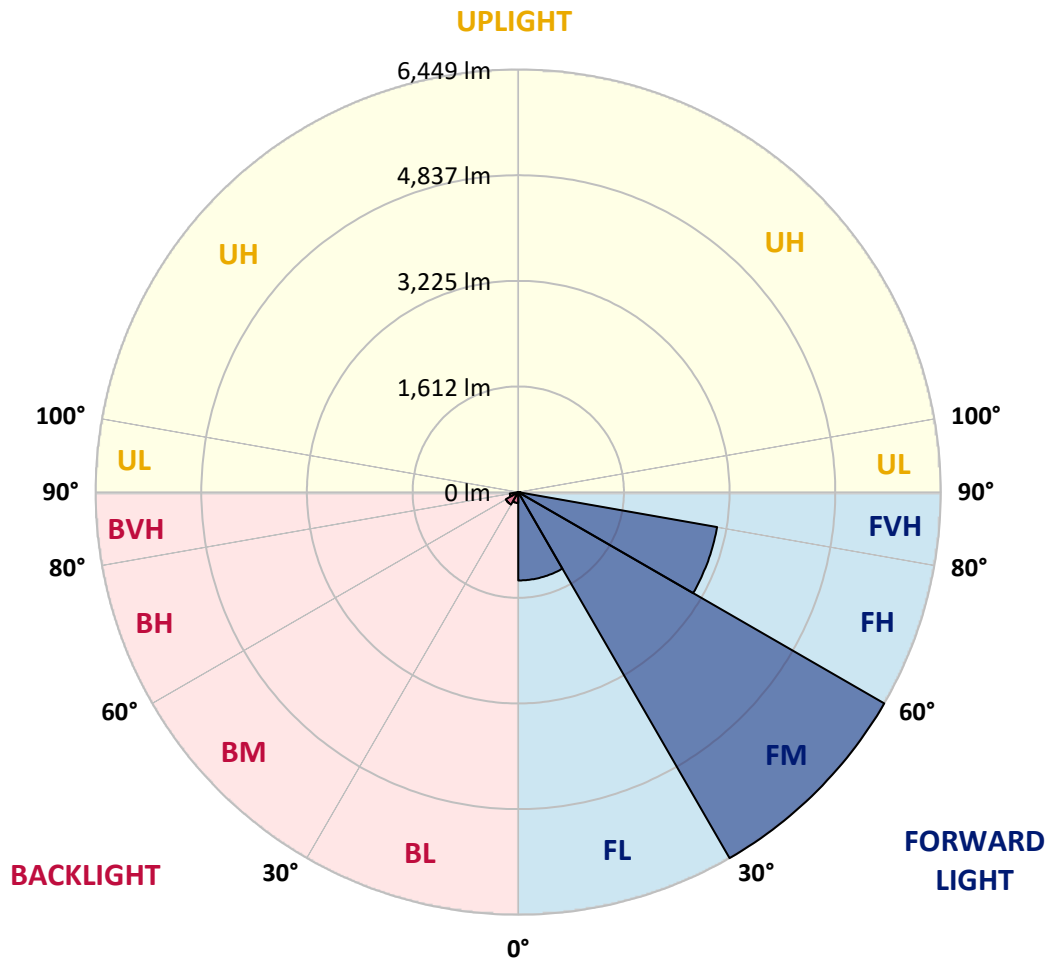
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1347.8	11.8			
FM (30°-60°)	6449.3	56.4			
FH (60°-80°)	3081.4	27.0			G2/5000
FVH (80°-90°)	33.7	0.3			G1/100
BL (0°-30°)	165.6	1.4	B1/500		
BM (30°-60°)	219.0	1.9	B0/220		
BH (60°-80°)	130.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5
2.5°	1663.0	1631.5	1598.4	1589.0	1527.6	1458.3	1393.7	1330.7	1225.2	1226.8	1154.3
5°	2143.3	2104.0	2077.2	2070.9	1974.8	1855.1	1757.5	1579.5	1404.7	1365.4	1233.1
7.5°	2538.6	2526.0	2486.6	2453.6	2382.7	2236.2	2121.3	1866.2	1600.0	1555.9	1329.1
10°	2778.0	2796.9	2814.2	2771.7	2716.6	2611.0	2453.6	2178.0	1822.1	1766.9	1453.6
12.5°	3033.1	3001.6	3012.6	3047.3	2974.8	2951.2	2755.9	2499.2	2081.9	1976.4	1611.0
15°	3099.2	3111.8	3138.6	3239.4	3288.2	3220.5	3052.0	2759.1	2351.2	2204.7	1757.5
17.5°	3143.3	3137.0	3170.1	3321.3	3395.3	3459.9	3354.4	3048.8	2585.8	2455.1	1940.2
20°	3198.4	3163.8	3236.2	3332.3	3504.0	3639.4	3634.7	3340.2	2831.5	2692.9	2121.3
22.5°	3403.2	3376.4	3434.7	3444.1	3563.8	3752.8	3798.5	3578.0	3083.5	2913.4	2316.6
25°	3781.1	3829.9	3760.7	3700.8	3737.0	3861.4	3894.5	3789.0	3337.0	3181.1	2511.8
27.5°	4333.9	4327.6	4190.6	4113.4	4026.8	4011.1	4034.7	3985.9	3537.0	3425.2	2672.5
30°	4927.6	4875.6	4749.6	4563.8	4373.3	4255.1	4222.1	4171.7	3771.7	3609.5	2831.5
32.5°	5400.0	5428.4	5288.2	5045.7	4729.2	4570.1	4411.1	4355.9	4029.9	3886.6	3014.2
35°	5834.7	5796.9	5685.1	5480.4	5196.9	4940.2	4691.4	4573.3	4340.2	4198.5	3215.8
37.5°	6155.9	6203.2	5990.6	5795.3	5513.4	5300.8	5056.7	4798.5	4659.9	4470.9	3461.4
40°	6459.9	6385.9	6242.6	6063.0	5801.6	5639.4	5478.8	5075.6	5000.0	4755.9	3738.6
42.5°	6406.3	6411.1	6332.3	6187.4	5998.5	5905.6	5850.4	5412.6	5308.7	5152.8	4009.5
45°	6187.4	6206.3	6233.1	6162.2	6178.0	6085.1	6233.1	5800.0	5697.7	5532.3	4321.3
47.5°	5946.5	5978.0	5971.7	6100.8	6247.3	6278.8	6648.9	6230.0	6185.9	6094.5	4752.8
50°	5546.5	5559.1	5680.4	5915.0	6115.0	6444.1	6960.7	6699.3	6767.0	6587.4	5266.2
52.5°	4863.0	4908.7	5220.5	5555.9	5959.1	6527.6	7171.7	7396.9	7568.6	7384.3	5759.1
55°	3998.5	4061.4	4368.5	4996.9	5587.4	6401.6	7363.8	7765.4	8113.4	7834.7	6058.3
57.5°	3217.3	3223.6	3499.2	4148.1	5059.9	6154.4	7461.5	7944.9	8412.7	8189.0	6423.7
60°	2452.0	2426.8	2674.0	3236.2	4171.7	5546.5	7217.4	8036.3	8785.9	8656.8	6863.0
62.5°	1578.0	1538.6	1807.9	2355.9	3258.3	4533.9	6729.2	8037.8	9368.6	9319.7	7598.5
65°	781.1	754.3	985.8	1444.1	2255.1	3467.7	6033.1	8007.9	10080.4	10111.9	8315.0
67.5°	412.6	422.1	496.1	732.3	1300.8	2450.4	4984.3	7656.7	10444.2	10620.5	8488.2
68°	379.5	382.7	440.9	609.5	1129.1	2272.5	4735.5	7554.4	10472.5	10689.8	8392.2
70°	308.7	313.4	333.9	382.7	611.0	1478.8	3653.6	6685.1	10045.7	10244.2	7596.9
72.5°	245.7	259.8	272.4	292.9	359.1	776.4	2272.5	5209.5	8299.3	8321.3	5913.4
75°	187.4	198.4	223.6	240.9	280.3	426.8	1081.9	3176.4	5445.7	5178.0	3483.5
77.5°	144.9	154.3	165.4	189.0	234.6	288.2	330.7	1348.0	2313.4	1903.9	984.3
80°	86.6	92.9	129.1	148.0	204.7	195.3	130.7	374.8	469.3	370.1	179.5
82.5°	50.4	55.1	74.0	113.4	143.3	105.5	77.2	116.5	115.0	100.8	59.8
85°	1.6	3.1	40.9	67.7	50.4	28.3	47.2	48.8	40.9	37.8	26.8
87.5°	0.0	1.6	11.0	9.4	11.0	6.3	9.4	12.6	15.7	14.2	11.0
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°	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5	1094.5
2.5°	1105.5	1070.9	993.7	935.4	872.4	834.7	796.9	773.2	760.6	752.8	759.1
5°	1133.9	1061.4	937.0	826.8	754.3	705.5	656.7	631.5	607.9	595.3	603.2
7.5°	1196.9	1088.2	881.9	762.2	677.2	601.6	540.2	491.3	463.0	437.8	442.5
10°	1274.0	1103.9	883.5	724.4	601.6	481.9	395.3	333.9	299.2	277.2	275.6
12.5°	1352.8	1165.4	889.8	686.6	508.7	362.2	259.8	214.2	193.7	182.7	182.7
15°	1472.5	1220.5	874.0	617.3	385.8	236.2	178.0	162.2	154.3	144.9	146.5
17.5°	1576.4	1308.7	866.1	513.4	264.6	170.1	148.0	130.7	122.8	113.4	113.4
20°	1716.5	1363.8	823.6	396.9	182.7	141.7	119.7	103.9	91.3	83.5	85.0
22.5°	1844.1	1406.3	748.0	270.9	140.2	111.8	88.2	72.4	61.4	52.0	53.5
25°	1982.7	1448.8	637.8	166.9	99.2	69.3	47.2	34.6	23.6	17.3	17.3
27.5°	2081.9	1461.4	494.5	99.2	59.8	31.5	11.0	1.6	0.0	0.0	0.0
30°	2182.7	1466.2	341.7	53.5	23.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2297.7	1464.6	214.2	28.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	2385.8	1437.8	102.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2519.7	1398.4	31.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2672.5	1327.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2809.5	1255.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2965.4	1165.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3239.4	1127.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3596.9	1097.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3817.3	1009.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3932.3	918.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4102.4	874.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4354.4	877.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4748.1	921.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4965.4	877.2	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4781.1	702.4	29.9	7.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
68°	4622.1	645.7	29.9	7.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	3820.5	420.5	28.3	7.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2782.7	233.1	23.6	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1618.9	116.5	17.3	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	422.1	58.3	14.2	7.9	4.7	1.6	0.0	0.0	0.0	0.0	0.0
80°	83.5	37.8	12.6	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	39.4	26.8	12.6	9.4	7.9	4.7	1.6	0.0	0.0	0.0	0.0
85°	20.5	12.6	12.6	9.4	9.4	6.3	3.1	0.0	0.0	0.0	0.0
87.5°	9.4	4.7	4.7	4.7	4.7	3.1	1.6	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)