

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: P482171

Luminaire Tested: **IFLD-S-SA2D-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482171
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

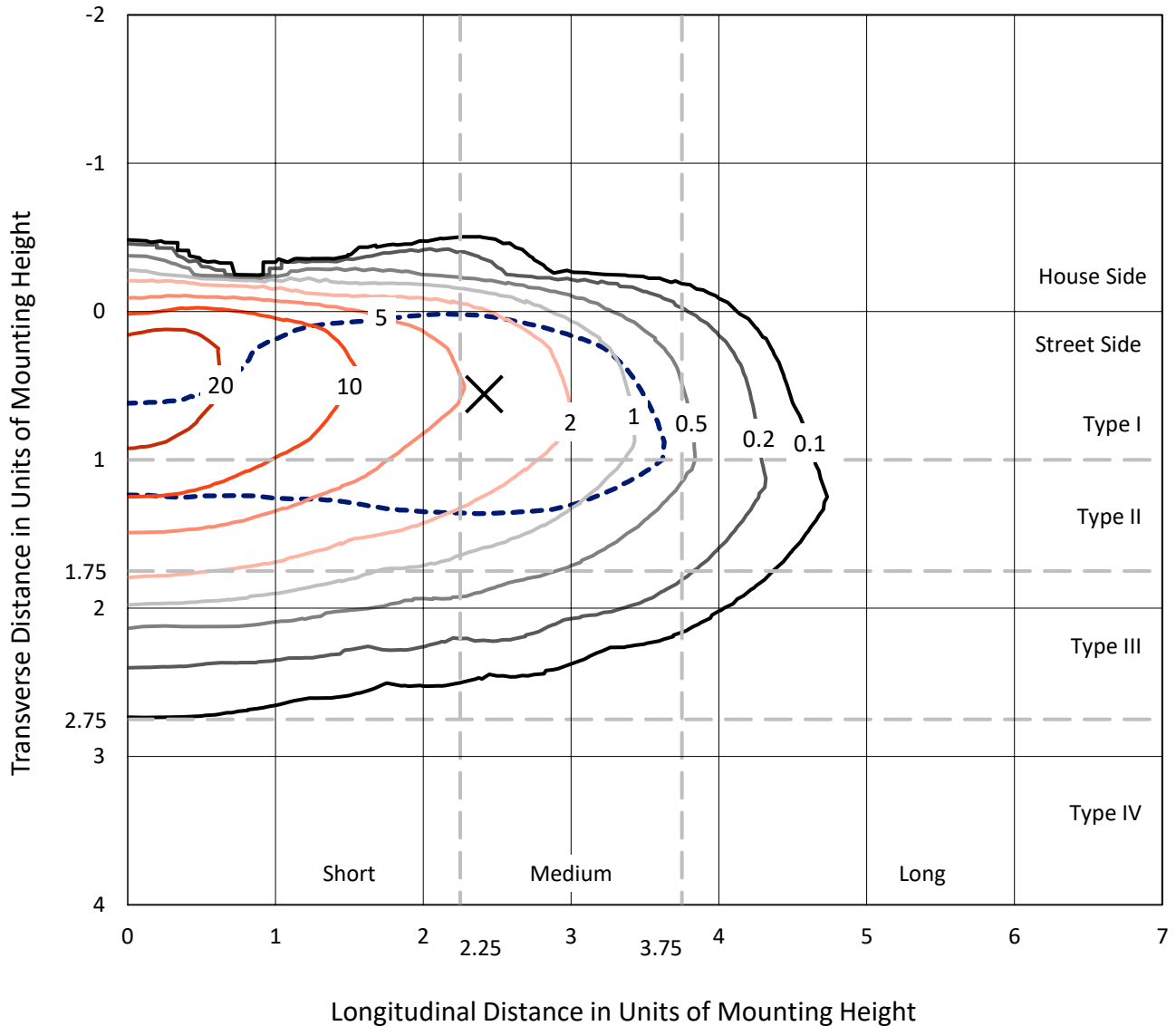
Lumens per Lamp: N/A
Luminaire Lumens: 9038.7 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

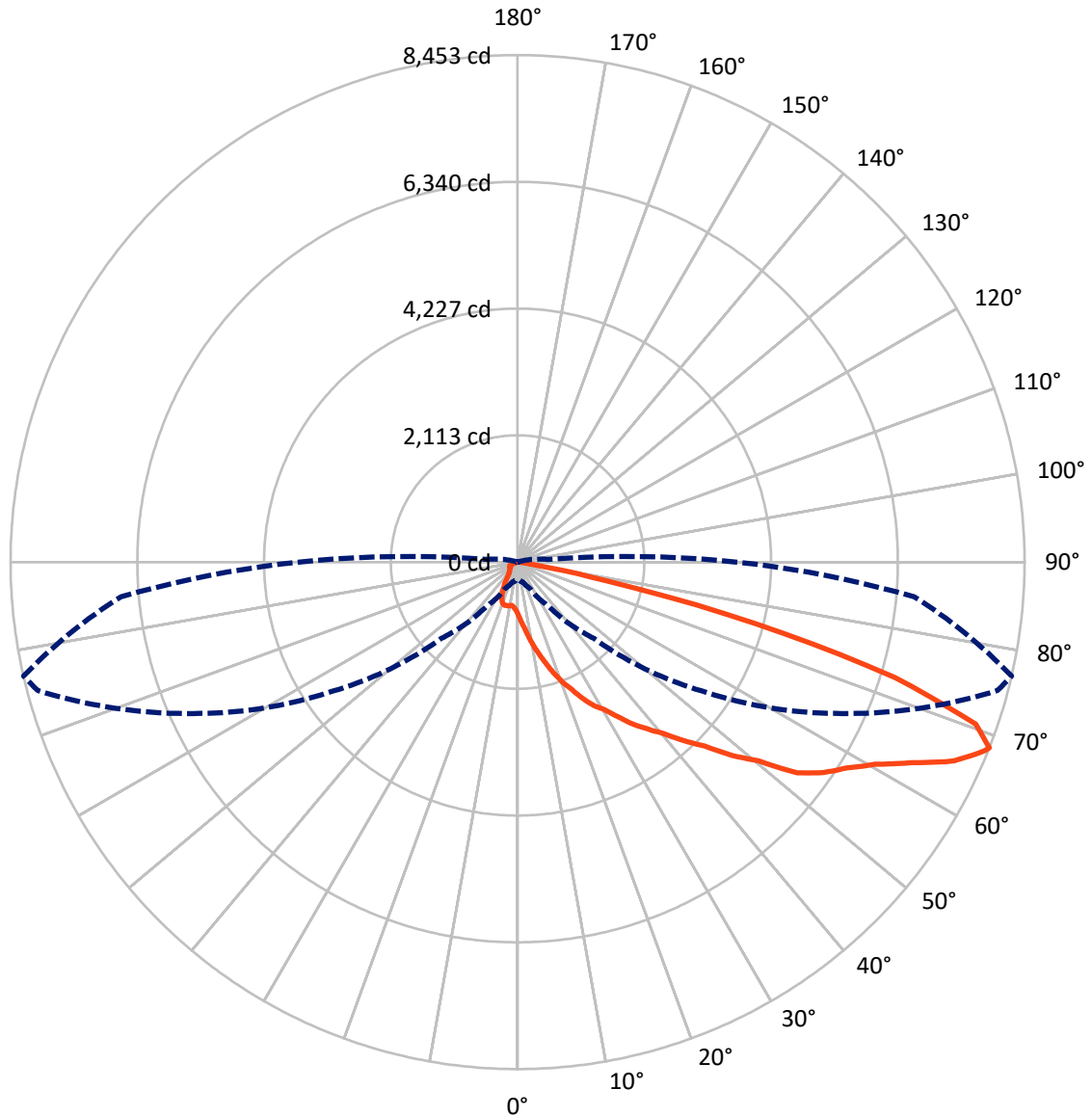
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.6 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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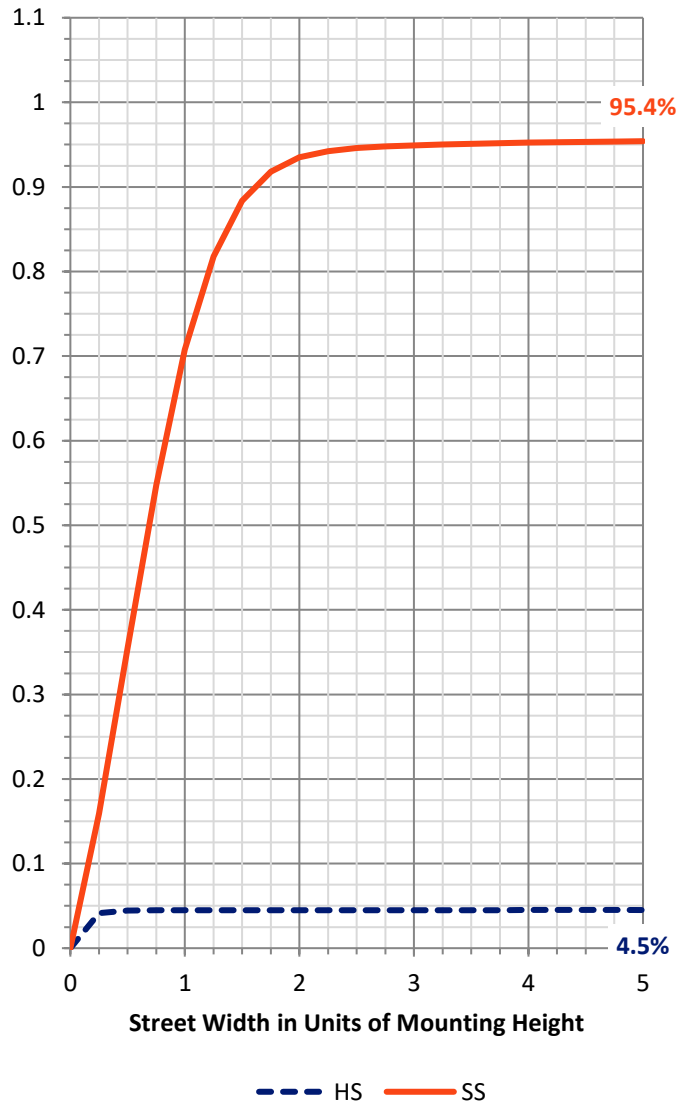
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	409.9	0.0	409.9
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	8628.8	0.0	8628.8
	% Fixture	95.5	0.0	95.5
Total	Lumens	9038.7	0.0	9038.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	1.1
10°-20°	372.9	4.1
20°-30°	722.7	8.0
30°-40°	1259.9	13.9
40°-50°	1845.2	20.4
50°-60°	2167.9	24.0
60°-70°	1830.6	20.3
70°-80°	709.6	7.9
80°-90°	28.9	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°	9038.7	100.0
0°-180°	9038.7	100.0

Coefficient of Utilization



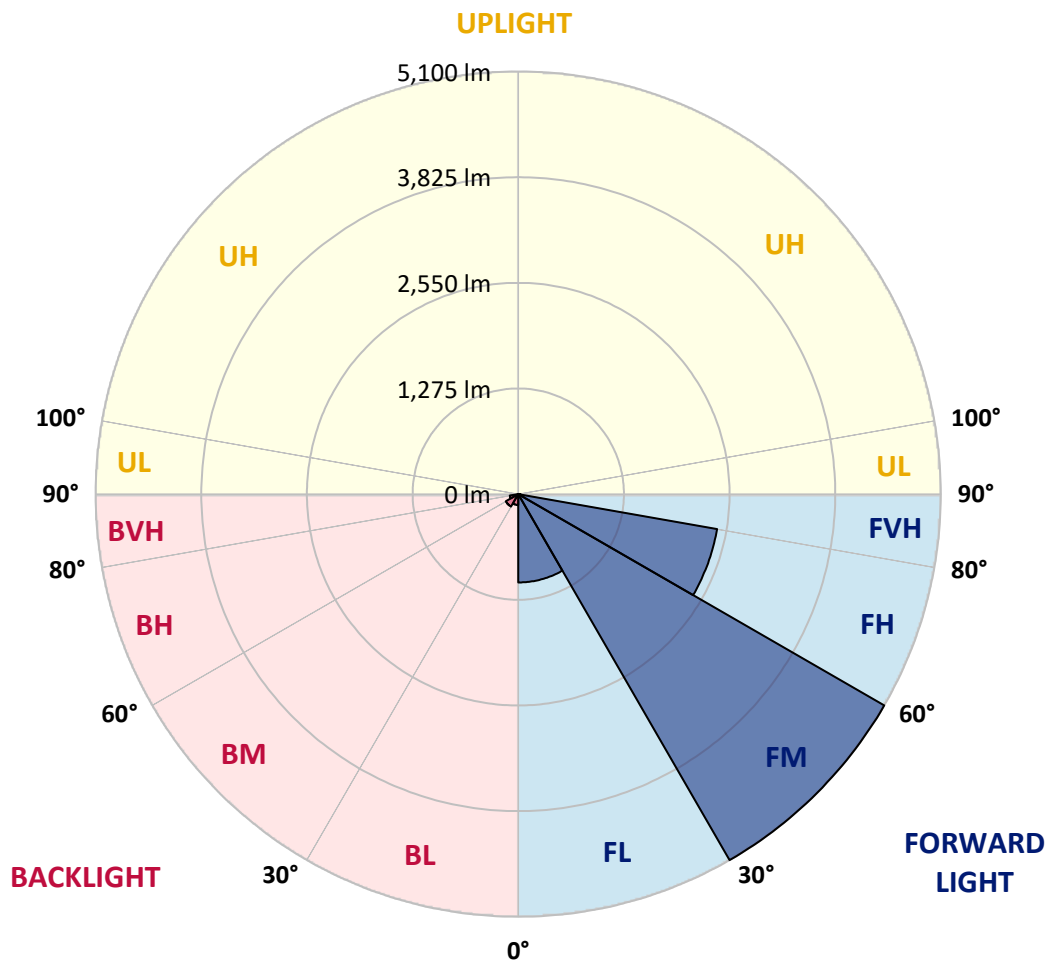
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.7	11.8			
FM (30°-60°)	5099.8	56.4			
FH (60°-80°)	2436.7	27.0			G2/5000
FVH (80°-90°)	26.6	0.3			G1/100
BL (0°-30°)	131.0	1.4	B1/500		
BM (30°-60°)	173.2	1.9	B0/220		
BH (60°-80°)	103.5	1.1	B0/110		G0/110
BVH (80°-90°)	2.2	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°	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5
2.5°	1315.0	1290.1	1264.0	1256.5	1207.9	1153.1	1102.1	1052.3	968.8	970.1	912.8
5°	1694.8	1663.7	1642.5	1637.5	1561.6	1466.9	1389.7	1249.0	1110.8	1079.7	975.1
7.5°	2007.4	1997.4	1966.3	1940.2	1884.1	1768.3	1677.4	1475.7	1265.2	1230.3	1051.0
10°	2196.7	2211.6	2225.3	2191.7	2148.1	2064.7	1940.2	1722.2	1440.8	1397.2	1149.4
12.5°	2398.4	2373.5	2382.2	2409.6	2352.3	2333.7	2179.2	1976.3	1646.3	1562.8	1273.9
15°	2450.7	2460.7	2481.8	2561.5	2600.2	2546.6	2413.4	2181.7	1859.2	1743.4	1389.7
17.5°	2485.6	2480.6	2506.8	2626.3	2684.8	2735.9	2652.5	2410.9	2044.8	1941.4	1534.2
20°	2529.2	2501.8	2559.1	2635.0	2770.8	2877.8	2874.1	2641.2	2239.0	2129.4	1677.4
22.5°	2691.1	2669.9	2716.0	2723.4	2818.1	2967.5	3003.6	2829.3	2438.3	2303.8	1831.8
25°	2989.9	3028.5	2973.7	2926.4	2955.1	3053.4	3079.6	2996.2	2638.8	2515.5	1986.2
27.5°	3427.0	3422.0	3313.7	3252.7	3184.2	3171.7	3190.4	3151.8	2796.9	2708.5	2113.2
30°	3896.5	3855.4	3755.8	3608.8	3458.2	3364.8	3338.6	3298.8	2982.5	2854.2	2239.0
32.5°	4270.1	4292.5	4181.7	3989.9	3739.6	3613.8	3488.0	3444.5	3186.7	3073.4	2383.5
35°	4613.8	4583.9	4495.5	4333.6	4109.4	3906.5	3709.7	3616.3	3432.0	3319.9	2542.9
37.5°	4867.8	4905.2	4737.1	4582.6	4359.7	4191.6	3998.6	3794.4	3684.8	3535.4	2737.1
40°	5108.1	5049.6	4936.3	4794.3	4587.6	4459.4	4332.3	4013.5	3953.8	3760.8	2956.3
42.5°	5065.8	5069.5	5007.3	4892.7	4743.3	4669.8	4626.2	4280.0	4197.8	4074.6	3170.5
45°	4892.7	4907.7	4928.8	4872.8	4885.2	4811.8	4928.8	4586.4	4505.4	4374.7	3417.1
47.5°	4702.2	4727.1	4722.1	4824.2	4940.0	4964.9	5257.6	4926.3	4891.5	4819.2	3758.3
50°	4385.9	4395.8	4491.7	4677.3	4835.4	5095.7	5504.1	5297.4	5351.0	5209.0	4164.2
52.5°	3845.4	3881.5	4128.1	4393.4	4712.2	5161.7	5671.0	5849.1	5984.8	5839.1	4554.0
55°	3161.8	3211.6	3454.4	3951.3	4418.3	5062.1	5822.9	6140.5	6415.7	6195.3	4790.6
57.5°	2544.1	2549.1	2767.0	3280.1	4001.1	4866.6	5900.1	6282.5	6652.3	6475.5	5079.5
60°	1938.9	1919.0	2114.5	2559.1	3298.8	4385.9	5707.1	6354.7	6947.4	6845.3	5426.9
62.5°	1247.8	1216.6	1429.6	1862.9	2576.5	3585.2	5321.1	6355.9	7408.2	7369.6	6008.5
65°	617.7	596.5	779.5	1141.9	1783.2	2742.1	4770.7	6332.3	7971.1	7996.0	6575.1
67.5°	326.3	333.7	392.3	579.1	1028.6	1937.7	3941.3	6054.6	8258.7	8398.2	6712.1
68°	300.1	302.6	348.7	481.9	892.9	1796.9	3744.6	5973.6	8281.1	8453.0	6636.1
70°	244.1	247.8	264.0	302.6	483.2	1169.3	2889.1	5286.2	7943.7	8100.6	6007.2
72.5°	194.3	205.5	215.4	231.6	283.9	613.9	1796.9	4119.4	6562.6	6580.1	4676.0
75°	148.2	156.9	176.8	190.5	221.7	337.5	855.5	2511.7	4306.2	4094.5	2754.6
77.5°	114.6	122.0	130.8	149.4	185.5	227.9	261.5	1066.0	1829.3	1505.5	778.3
80°	68.5	73.5	102.1	117.1	161.9	154.4	103.4	296.4	371.1	292.6	142.0
82.5°	39.8	43.6	58.5	89.7	113.3	83.4	61.0	92.2	90.9	79.7	47.3
85°	1.2	2.5	32.4	53.5	39.8	22.4	37.4	38.6	32.4	29.9	21.2
87.5°	0.0	1.2	8.7	7.5	8.7	5.0	7.5	10.0	12.5	11.2	8.7
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°	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5	865.5
2.5°	874.2	846.8	785.8	739.7	689.9	660.0	630.1	611.4	601.5	595.2	600.2
5°	896.6	839.3	740.9	653.8	596.5	557.9	519.3	499.4	480.7	470.7	476.9
7.5°	946.4	860.5	697.4	602.7	535.5	475.7	427.1	388.5	366.1	346.2	349.9
10°	1007.4	872.9	698.6	572.8	475.7	381.1	312.6	264.0	236.6	219.2	217.9
12.5°	1069.7	921.5	703.6	542.9	402.2	286.4	205.5	169.4	153.2	144.5	144.5
15°	1164.3	965.1	691.1	488.2	305.1	186.8	140.7	128.3	122.0	114.6	115.8
17.5°	1246.5	1034.8	684.9	406.0	209.2	134.5	117.1	103.4	97.1	89.7	89.7
20°	1357.4	1078.4	651.3	313.8	144.5	112.1	94.6	82.2	72.2	66.0	67.2
22.5°	1458.2	1112.0	591.5	214.2	110.8	88.4	69.7	57.3	48.6	41.1	42.3
25°	1567.8	1145.7	504.3	132.0	78.5	54.8	37.4	27.4	18.7	13.7	13.7
27.5°	1646.3	1155.6	391.0	78.5	47.3	24.9	8.7	1.2	0.0	0.0	0.0
30°	1726.0	1159.4	270.2	42.3	18.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1816.9	1158.1	169.4	22.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	1886.6	1136.9	80.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1992.5	1105.8	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2113.2	1049.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2221.6	992.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2344.9	921.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2561.5	891.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2844.2	868.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3018.6	798.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3109.5	726.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3244.0	691.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3443.2	693.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3754.5	728.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3926.4	693.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3780.7	555.4	23.7	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	3654.9	510.6	23.7	6.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	3021.1	332.5	22.4	6.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2200.4	184.3	18.7	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	1280.2	92.2	13.7	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	333.7	46.1	11.2	6.2	3.7	1.2	0.0	0.0	0.0	0.0	0.0
80°	66.0	29.9	10.0	7.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	31.1	21.2	10.0	7.5	6.2	3.7	1.2	0.0	0.0	0.0	0.0
85°	16.2	10.0	10.0	7.5	7.5	5.0	2.5	0.0	0.0	0.0	0.0
87.5°	7.5	3.7	3.7	3.7	3.7	2.5	1.2	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)