

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: P481981

Luminaire Tested: **IFLD-S-SA3D-730-U-T2R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481981
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

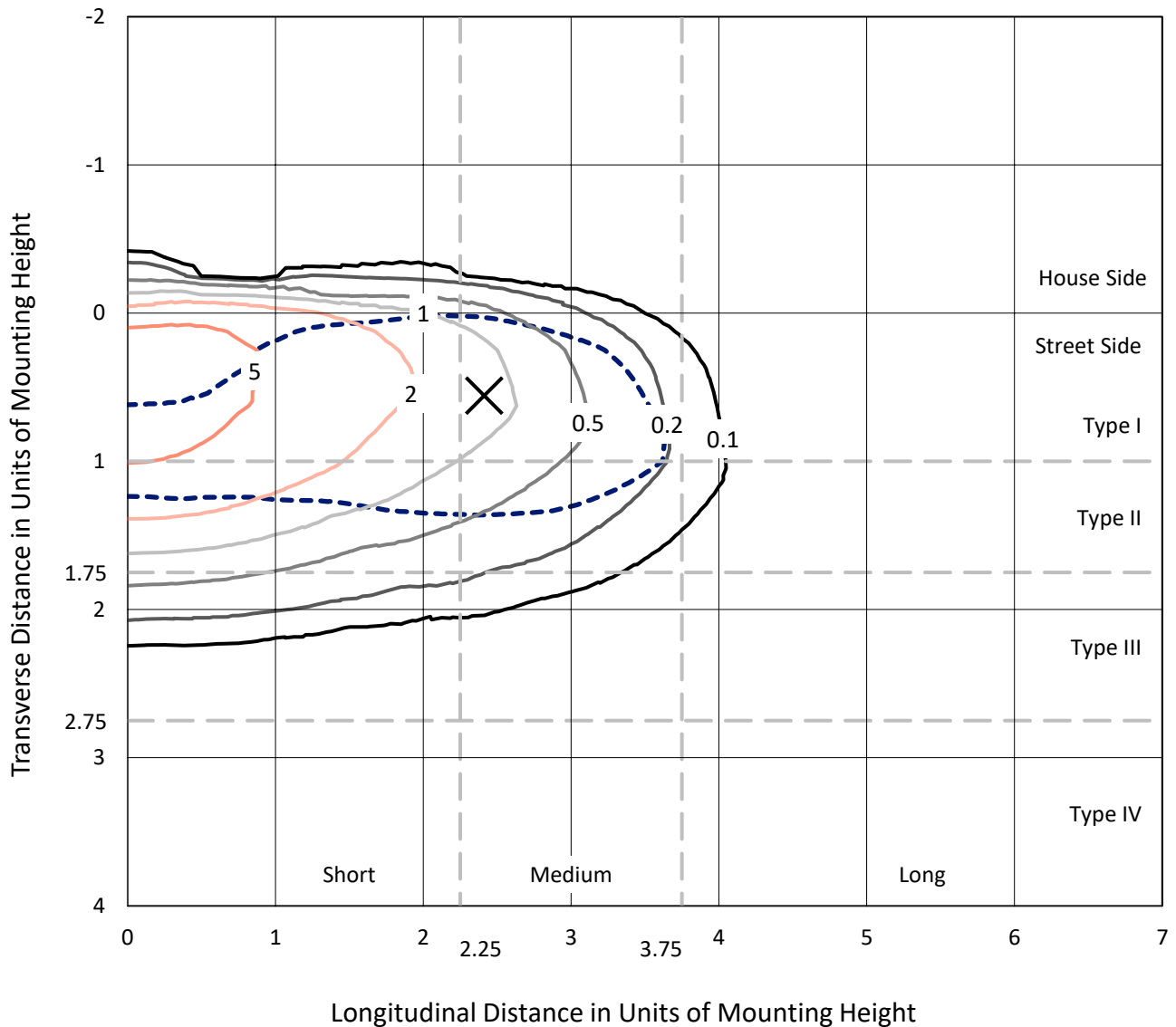
Lumens per Lamp: N/A
Luminaire Lumens: 16686 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (A_{in}): 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

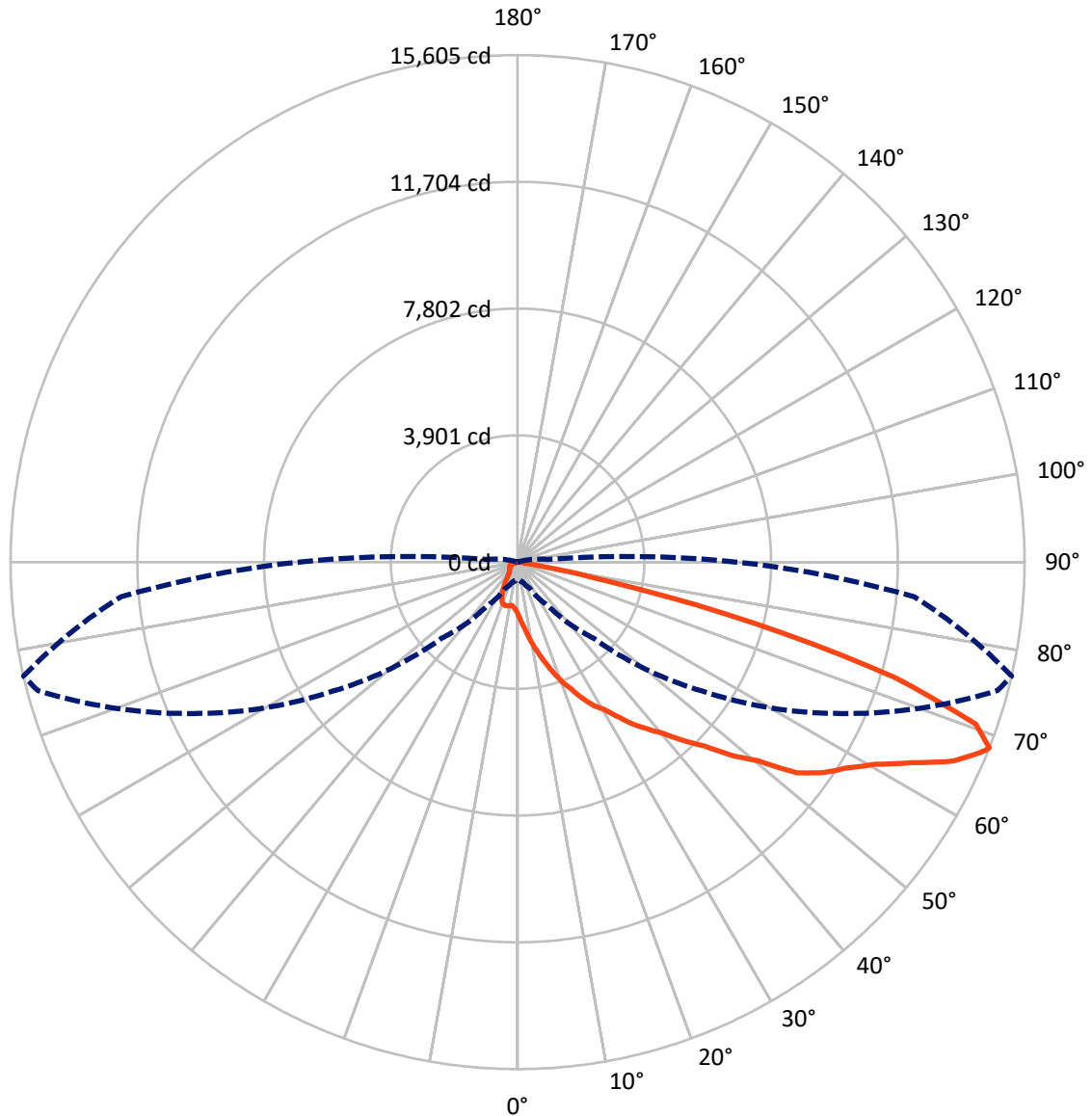
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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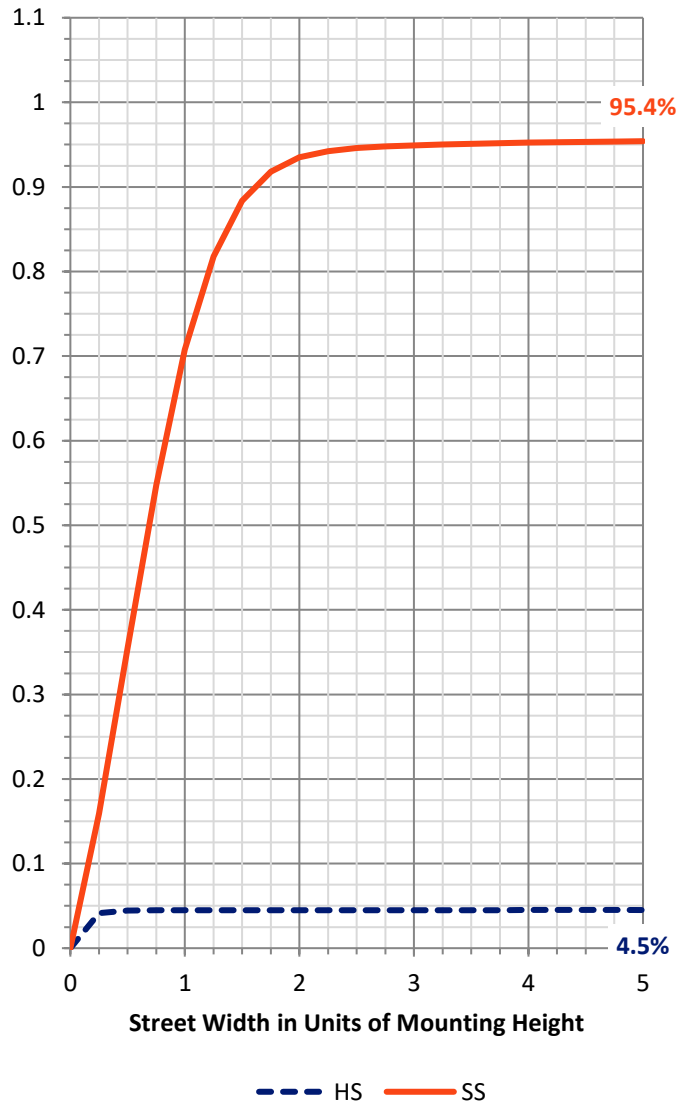
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	756.7	0.0	756.7
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	15929.3	0.0	15929.3
	% Fixture	95.5	0.0	95.5
Total	Lumens	16686.0	0.0	16686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	1.1
10°-20°	688.4	4.1
20°-30°	1334.1	8.0
30°-40°	2325.8	13.9
40°-50°	3406.4	20.4
50°-60°	4002.0	24.0
60°-70°	3379.3	20.3
70°-80°	1309.9	7.9
80°-90°	53.3	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°	16686.0	100.0
0°-180°	16686.0	100.0

Coefficient of Utilization



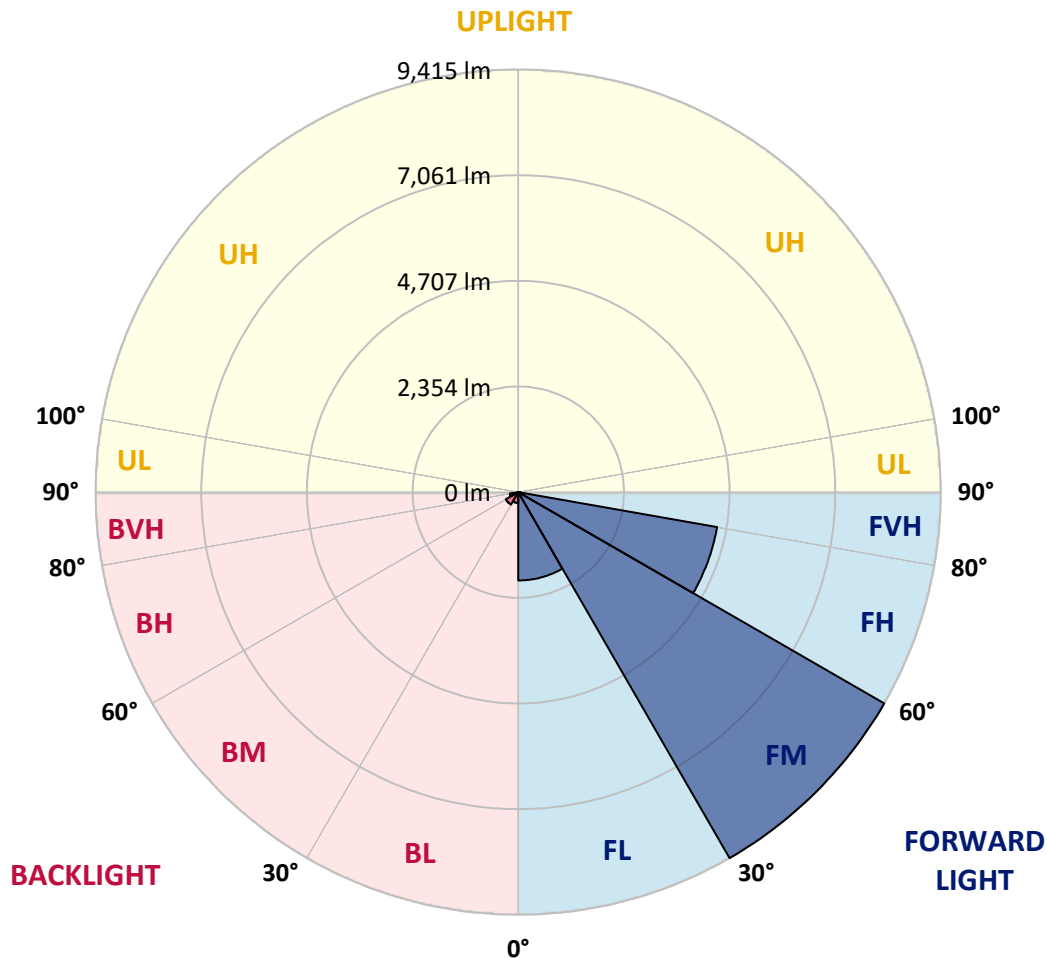
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.4	11.8			
FM (30°-60°)	9414.5	56.4			
FH (60°-80°)	4498.2	27.0			G2/5000
FVH (80°-90°)	49.1	0.3			G1/100
BL (0°-30°)	241.8	1.4	B1/500		
BM (30°-60°)	319.7	1.9	B1/1000		
BH (60°-80°)	191.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7
2.5°	2427.6	2381.6	2333.3	2319.5	2229.9	2128.7	2034.5	1942.5	1788.5	1790.8	1685.1
5°	3128.7	3071.3	3032.2	3023.0	2882.8	2708.1	2565.5	2305.8	2050.6	1993.1	1800.0
7.5°	3705.8	3687.4	3629.9	3581.6	3478.2	3264.4	3096.6	2724.1	2335.6	2271.3	1940.2
10°	4055.2	4082.8	4108.1	4046.0	3965.5	3811.5	3581.6	3179.3	2659.8	2579.3	2121.8
12.5°	4427.6	4381.6	4397.7	4448.3	4342.5	4308.1	4023.0	3648.3	3039.1	2885.1	2351.7
15°	4524.2	4542.5	4581.6	4728.8	4800.0	4701.2	4455.2	4027.6	3432.2	3218.4	2565.5
17.5°	4588.5	4579.3	4627.6	4848.3	4956.3	5050.6	4896.6	4450.6	3774.7	3583.9	2832.2
20°	4669.0	4618.4	4724.2	4864.4	5115.0	5312.7	5305.8	4875.9	4133.3	3931.0	3096.6
22.5°	4967.8	4928.8	5013.8	5027.6	5202.3	5478.2	5544.8	5223.0	4501.2	4252.9	3381.6
25°	5519.6	5590.8	5489.7	5402.3	5455.2	5636.8	5685.1	5531.1	4871.3	4643.7	3666.7
27.5°	6326.5	6317.3	6117.3	6004.6	5878.2	5855.2	5889.7	5818.4	5163.2	5000.0	3901.2
30°	7193.1	7117.3	6933.4	6662.1	6383.9	6211.5	6163.2	6089.7	5505.8	5269.0	4133.3
32.5°	7882.8	7924.2	7719.6	7365.5	6903.5	6671.3	6439.1	6358.6	5882.8	5673.6	4400.0
35°	8517.3	8462.1	8298.9	8000.0	7586.2	7211.5	6848.3	6675.9	6335.7	6128.8	4694.3
37.5°	8986.2	9055.2	8744.9	8459.8	8048.3	7738.0	7381.6	7004.6	6802.3	6526.5	5052.9
40°	9429.9	9321.9	9112.7	8850.6	8469.0	8232.2	7997.7	7409.2	7298.9	6942.6	5457.5
42.5°	9351.8	9358.7	9243.7	9032.2	8756.4	8620.7	8540.3	7901.2	7749.5	7521.9	5852.9
45°	9032.2	9059.8	9098.9	8995.4	9018.4	8882.8	9098.9	8466.7	8317.3	8075.9	6308.1
47.5°	8680.5	8726.5	8717.3	8905.8	9119.6	9165.5	9705.8	9094.3	9029.9	8896.6	6938.0
50°	8096.6	8115.0	8292.0	8634.5	8926.5	9406.9	10161.0	9779.3	9878.2	9616.1	7687.4
52.5°	7098.9	7165.5	7620.7	8110.4	8698.9	9528.8	10469.0	10797.7	11048.3	10779.3	8406.9
55°	5836.8	5928.8	6377.0	7294.3	8156.3	9344.9	10749.5	11335.7	11843.7	11436.8	8843.7
57.5°	4696.6	4705.8	5108.1	6055.2	7386.2	8983.9	10892.0	11597.7	12280.5	11954.1	9377.0
60°	3579.3	3542.5	3903.5	4724.2	6089.7	8096.6	10535.7	11731.1	12825.3	12636.8	10018.4
62.5°	2303.5	2246.0	2639.1	3439.1	4756.3	6618.4	9823.0	11733.4	13675.9	13604.6	11092.0
65°	1140.2	1101.2	1439.1	2108.1	3292.0	5062.1	8806.9	11689.7	14715.0	14761.0	12138.0
67.5°	602.3	616.1	724.1	1069.0	1898.9	3577.0	7275.9	11177.0	15246.0	15503.5	12390.8
68°	554.0	558.6	643.7	889.7	1648.3	3317.3	6912.7	11027.6	15287.4	15604.7	12250.6
70°	450.6	457.5	487.4	558.6	892.0	2158.6	5333.4	9758.7	14664.4	14954.1	11089.7
72.5°	358.6	379.3	397.7	427.6	524.1	1133.3	3317.3	7604.6	12115.0	12147.2	8632.2
75°	273.6	289.7	326.4	351.7	409.2	623.0	1579.3	4636.8	7949.5	7558.6	5085.1
77.5°	211.5	225.3	241.4	275.9	342.5	420.7	482.8	1967.8	3377.0	2779.3	1436.8
80°	126.4	135.6	188.5	216.1	298.9	285.1	190.8	547.1	685.1	540.2	262.1
82.5°	73.6	80.5	108.0	165.5	209.2	154.0	112.6	170.1	167.8	147.1	87.4
85°	2.3	4.6	59.8	98.9	73.6	41.4	69.0	71.3	59.8	55.2	39.1
87.5°	0.0	2.3	16.1	13.8	16.1	9.2	13.8	18.4	23.0	20.7	16.1
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°	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7	1597.7
2.5°	1613.8	1563.2	1450.6	1365.5	1273.6	1218.4	1163.2	1128.7	1110.3	1098.9	1108.0
5°	1655.2	1549.4	1367.8	1206.9	1101.2	1029.9	958.6	921.8	887.4	869.0	880.5
7.5°	1747.1	1588.5	1287.4	1112.6	988.5	878.2	788.5	717.2	675.9	639.1	646.0
10°	1859.8	1611.5	1289.7	1057.5	878.2	703.5	577.0	487.4	436.8	404.6	402.3
12.5°	1974.7	1701.2	1298.9	1002.3	742.5	528.7	379.3	312.6	282.8	266.7	266.7
15°	2149.4	1781.6	1275.9	901.2	563.2	344.8	259.8	236.8	225.3	211.5	213.8
17.5°	2301.2	1910.4	1264.4	749.4	386.2	248.3	216.1	190.8	179.3	165.5	165.5
20°	2505.8	1990.8	1202.3	579.3	266.7	206.9	174.7	151.7	133.3	121.8	124.1
22.5°	2692.0	2052.9	1092.0	395.4	204.6	163.2	128.7	105.7	89.7	75.9	78.2
25°	2894.3	2114.9	931.0	243.7	144.8	101.1	69.0	50.6	34.5	25.3	25.3
27.5°	3039.1	2133.3	721.8	144.8	87.4	46.0	16.1	2.3	0.0	0.0	0.0
30°	3186.2	2140.2	498.9	78.2	34.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3354.0	2137.9	312.6	41.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	3482.8	2098.9	149.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3678.2	2041.4	46.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3901.2	1937.9	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4101.2	1832.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4328.8	1701.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4728.8	1646.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5250.6	1602.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5572.4	1473.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5740.2	1340.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5988.5	1275.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6356.3	1280.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6931.1	1344.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7248.3	1280.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6979.3	1025.3	43.7	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	6747.1	942.5	43.7	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	5577.0	613.8	41.4	11.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4062.1	340.2	34.5	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2363.2	170.1	25.3	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	616.1	85.1	20.7	11.5	6.9	2.3	0.0	0.0	0.0	0.0	0.0
80°	121.8	55.2	18.4	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0
82.5°	57.5	39.1	18.4	13.8	11.5	6.9	2.3	0.0	0.0	0.0	0.0
85°	29.9	18.4	18.4	13.8	13.8	9.2	4.6	0.0	0.0	0.0	0.0
87.5°	13.8	6.9	6.9	6.9	6.9	4.6	2.3	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)