

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: P484933

Luminaire Tested: **IFLD-L-SA8A-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484933
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

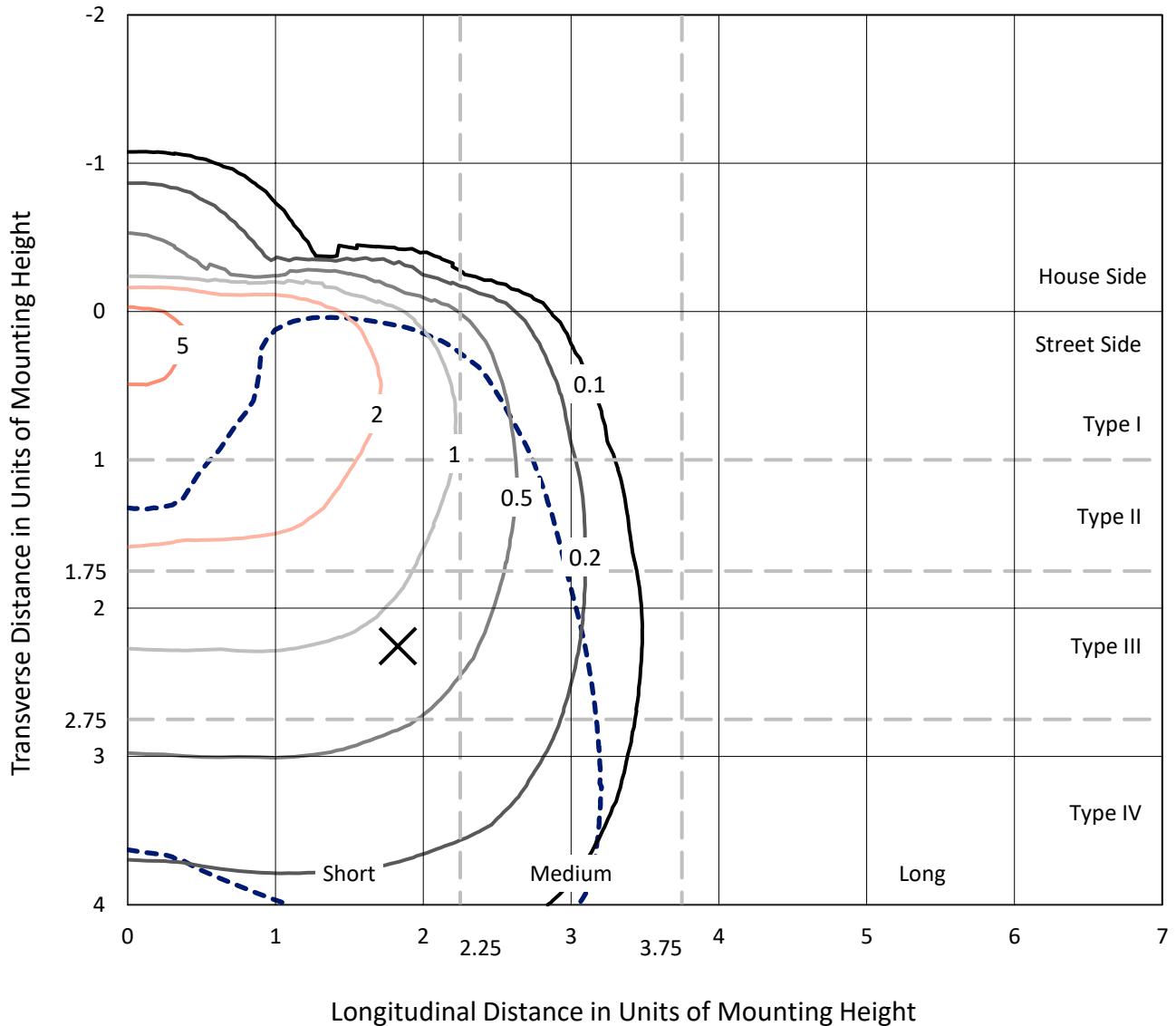
Lumens per Lamp: N/A
Luminaire Lumens: 20803.1 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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

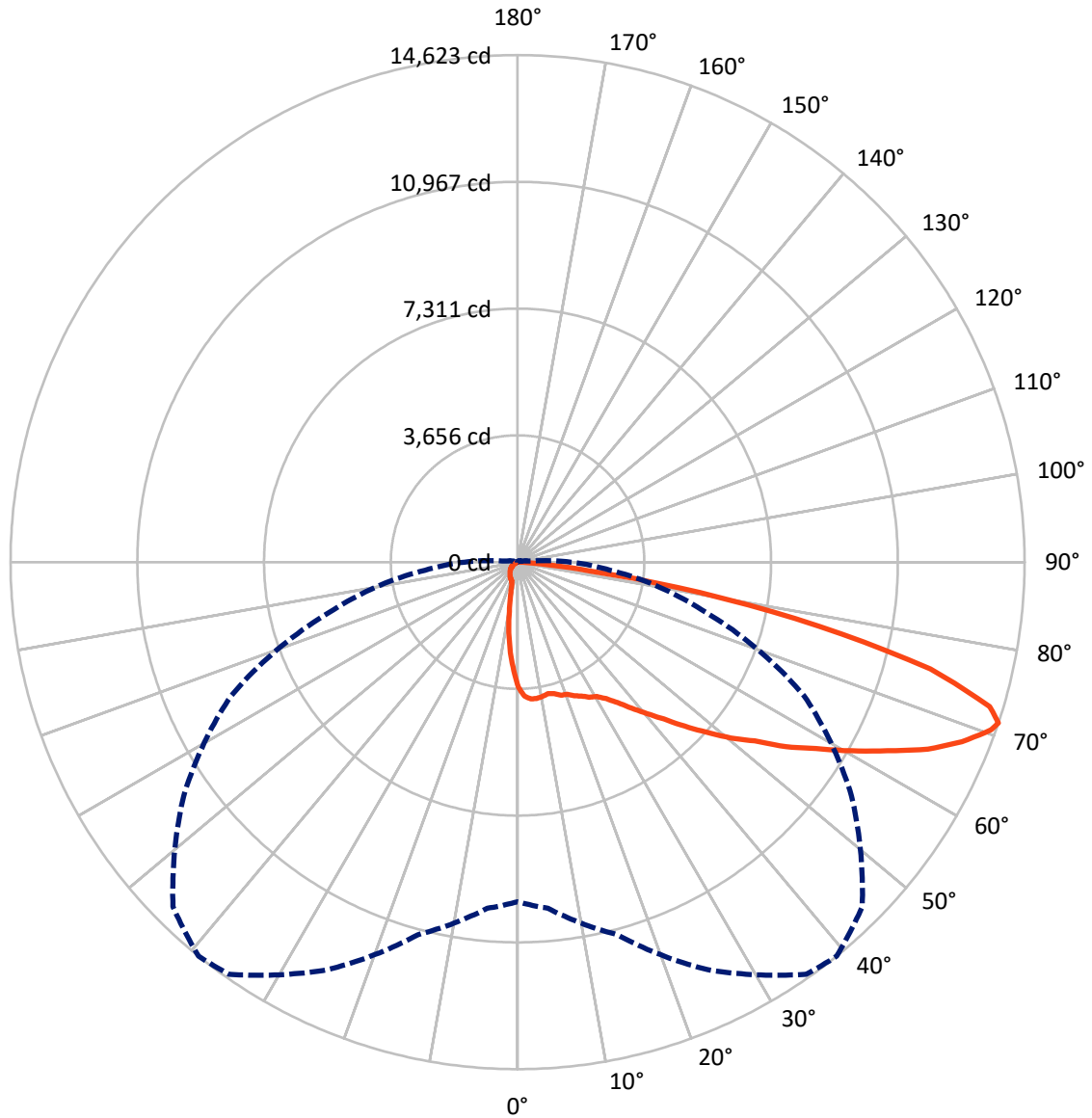
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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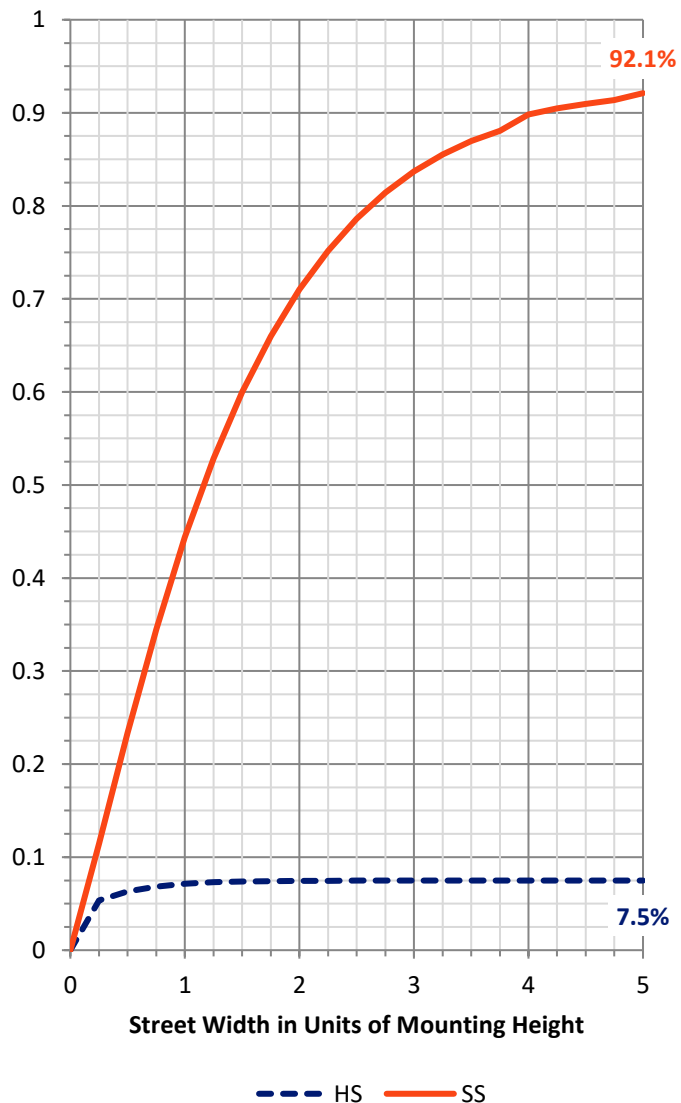
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1566.1	0.0	1566.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	19237.0	0.0	19237.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	20803.1	0.0	20803.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	1.5
10°-20°	745.1	3.6
20°-30°	1196.2	5.8
30°-40°	1831.1	8.8
40°-50°	2939.2	14.1
50°-60°	4317.2	20.8
60°-70°	5437.3	26.1
70°-80°	3628.7	17.4
80°-90°	405.5	1.9
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°	20803.1	100.0
0°-180°	20803.1	100.0

Coefficient of Utilization



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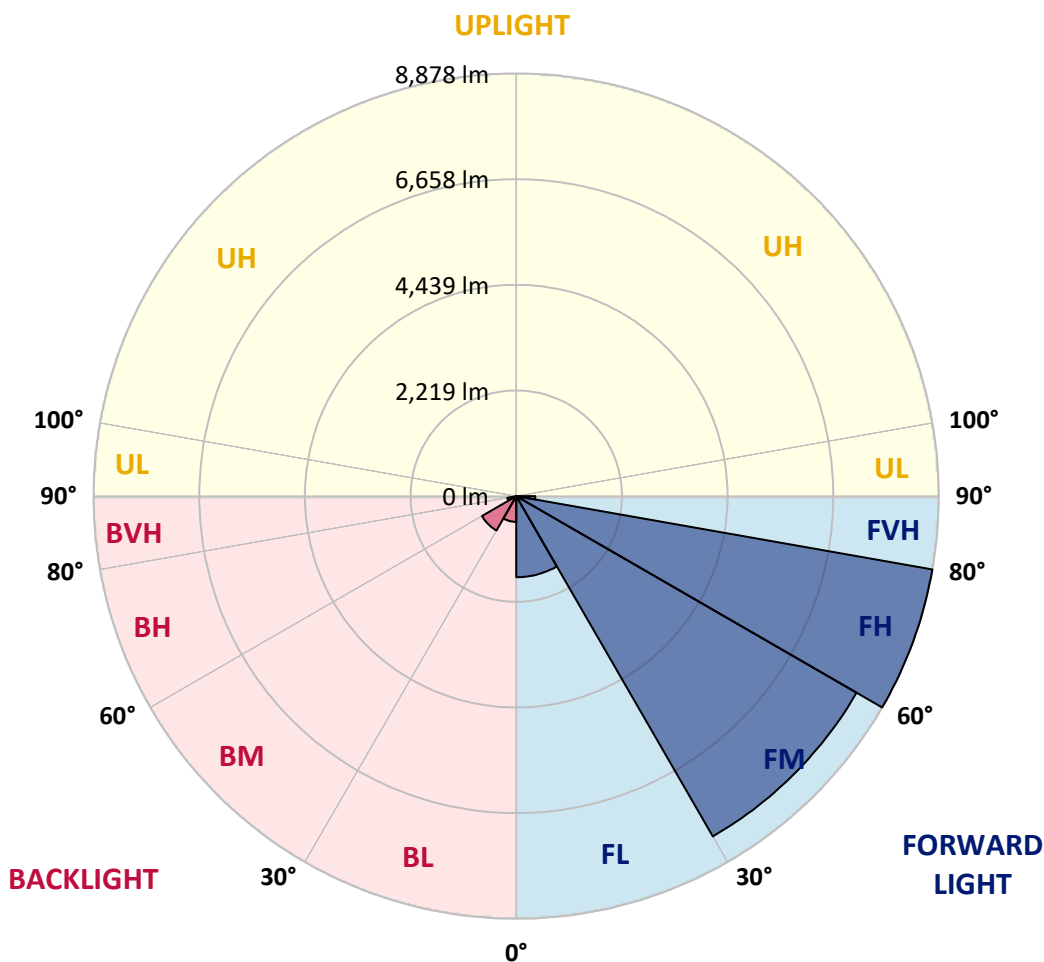
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1703.3	8.2			
FM (30°-60°)	8255.0	39.7			
FH (60°-80°)	8877.6	42.7			G4/12000
FVH (80°-90°)	401.1	1.9			G3/500
BL (0°-30°)	540.7	2.6	B2/1000		
BM (30°-60°)	832.5	4.0	B1/1000		
BH (60°-80°)	188.5	0.9	B1/500		G1/500
BVH (80°-90°)	4.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9
2.5°	3902.0	3940.2	3902.0	3885.6	3869.2	3871.9	3828.3	3836.5	3784.6	3716.4	3661.8
5°	4024.8	4076.6	4035.7	4016.6	4013.8	3962.0	3940.2	3888.3	3825.6	3719.1	3653.7
7.5°	4013.8	4002.9	4022.0	4005.6	3970.2	3970.2	3945.6	3871.9	3809.2	3689.1	3577.3
10°	3932.0	3964.7	3948.3	3929.2	3937.4	3940.2	3893.8	3841.9	3822.8	3702.8	3520.0
12.5°	3923.8	3869.2	3929.2	3932.0	3896.5	3893.8	3888.3	3874.7	3814.6	3705.5	3533.6
15°	3896.5	3874.7	3934.7	3937.4	3945.6	3937.4	3945.6	3934.7	3874.7	3811.9	3593.6
17.5°	3918.3	3893.8	3978.4	4019.3	4000.2	4038.4	4024.8	3975.6	3923.8	3850.1	3650.9
20°	3923.8	3959.3	4052.0	4068.4	4128.4	4065.7	4063.0	4011.1	3978.4	3899.2	3686.4
22.5°	4024.8	4041.1	4155.7	4191.2	4193.9	4185.7	4117.5	4057.5	4043.9	3945.6	3694.6
25°	4177.6	4234.9	4286.7	4308.5	4316.7	4278.5	4207.6	4131.2	4098.4	4035.7	3779.2
27.5°	4447.7	4412.2	4458.6	4491.3	4398.6	4412.2	4322.2	4256.7	4210.3	4155.7	3877.4
30°	4687.8	4655.1	4657.8	4652.3	4573.2	4499.5	4475.0	4360.4	4303.1	4324.9	4030.2
32.5°	4903.4	4832.4	4892.5	4865.2	4717.8	4696.0	4676.9	4532.3	4543.2	4644.2	4259.4
35°	5102.6	5078.0	5127.1	5078.0	4979.8	4974.3	4955.2	4829.7	4889.7	5034.3	4652.3
37.5°	5285.4	5293.6	5353.6	5329.0	5337.2	5342.7	5331.8	5198.1	5370.0	5694.7	5110.8
40°	5454.6	5443.6	5591.0	5667.4	5683.8	5743.8	5743.8	5711.1	5975.7	6341.4	5746.5
42.5°	5634.7	5661.9	5852.9	5981.2	6136.7	6188.6	6259.5	6275.9	6685.2	7102.7	6395.9
45°	5929.3	5883.0	6125.8	6428.7	6565.1	6747.9	6857.1	6949.9	7443.7	8016.8	7045.4
47.5°	6303.2	6210.4	6423.2	6862.5	7179.1	7329.1	7525.6	7648.4	8131.4	8723.5	7659.3
50°	6717.9	6622.4	6726.1	7331.9	7700.2	7973.1	8224.1	8379.7	8963.6	9514.8	8106.8
52.5°	7187.2	7099.9	7116.3	7820.3	8363.3	8562.5	8892.7	9124.6	9705.8	9992.3	8265.1
55°	7686.6	7664.8	7612.9	8297.8	8944.5	9392.0	9591.2	9869.5	10467.1	10251.5	8437.0
57.5°	8188.7	8120.4	8194.1	8930.9	9877.7	10145.1	10420.7	10587.1	10890.0	10478.0	8371.5
60°	8660.7	8666.2	8769.9	9618.5	10671.7	11051.0	11299.3	11198.4	11323.9	10576.2	8221.4
62.5°	9059.1	9048.2	9310.1	10390.7	11722.3	11978.7	12164.3	11714.1	11525.8	10671.7	7959.5
65°	9416.6	9539.3	9951.4	11310.2	12710.0	13004.7	12892.8	12202.5	11722.3	10390.7	7222.7
67.5°	9686.7	9869.5	10584.4	12175.2	13615.9	13823.3	13667.8	12573.6	11490.3	9288.3	5883.0
70°	9844.9	10030.5	11037.4	12895.6	14339.0	14489.1	14123.5	12287.1	10136.9	6726.1	3670.0
71°	9795.8	10022.3	11124.7	12972.0	14510.9	14622.8	14055.2	11757.7	9116.4	5631.9	2676.8
72.5°	9351.1	9563.9	10761.8	12917.4	14303.6	14235.3	13523.2	10486.2	7176.3	3590.9	1383.4
75°	6870.7	7099.9	9236.5	11173.8	12767.3	12298.0	10944.6	7359.2	3743.7	1099.6	403.8
77.5°	3421.7	3459.9	5732.9	8112.3	9364.7	8898.1	7334.6	4103.9	1399.8	324.7	201.9
80°	1577.2	1588.1	2150.2	4202.1	5661.9	5329.0	4109.3	2024.7	633.0	171.9	158.3
82.5°	1075.1	1091.5	1296.1	1740.9	2458.5	2073.8	1664.5	1296.1	362.9	103.7	155.5
85°	196.5	180.1	725.8	922.3	949.6	644.0	575.7	1121.5	136.4	60.0	136.4
87.5°	0.0	2.7	101.0	376.6	338.4	150.1	196.5	272.9	13.6	19.1	24.6
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°	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9	3620.9
2.5°	3615.5	3585.4	3484.5	3372.6	3271.6	3192.5	3091.6	3045.2	2971.5	2930.6	2927.8
5°	3563.6	3481.8	3307.1	3118.8	2908.7	2734.1	2540.4	2431.2	2305.7	2267.5	2259.3
7.5°	3476.3	3359.0	3102.5	2837.8	2515.8	2207.5	1970.1	1716.3	1560.8	1495.3	1470.7
10°	3421.7	3279.8	2930.6	2534.9	2084.7	1650.8	1317.9	1047.8	905.9	837.7	821.3
12.5°	3421.7	3268.9	2791.4	2245.7	1648.1	1129.7	815.9	660.3	613.9	597.6	597.6
15°	3413.5	3247.1	2657.7	1948.3	1219.7	758.6	608.5	575.7	570.3	567.6	564.8
17.5°	3454.5	3208.9	2521.3	1629.0	862.3	597.6	559.4	553.9	548.5	548.5	543.0
20°	3484.5	3187.1	2357.5	1290.6	644.0	553.9	537.5	529.4	526.6	523.9	529.4
22.5°	3459.9	3154.3	2155.6	965.9	562.1	526.6	515.7	507.5	502.1	502.1	504.8
25°	3506.3	3124.3	1953.7	728.5	526.6	502.1	491.2	485.7	483.0	480.2	474.8
27.5°	3569.1	3137.9	1713.6	586.7	496.6	477.5	466.6	461.1	458.4	453.0	458.4
30°	3645.5	3135.2	1448.9	513.0	469.3	450.2	439.3	436.6	431.1	428.4	431.1
32.5°	3776.4	3206.2	1176.0	474.8	439.3	422.9	412.0	409.3	406.6	403.8	401.1
35°	4057.5	3293.5	919.6	444.8	412.0	392.9	384.7	379.3	376.6	373.8	371.1
37.5°	4404.0	3487.2	701.3	417.5	384.7	365.6	357.5	354.7	343.8	341.1	338.4
40°	4837.9	3694.6	540.3	387.5	360.2	341.1	332.9	324.7	311.1	305.6	300.2
42.5°	5378.2	3896.5	444.8	360.2	332.9	319.3	305.6	292.0	281.1	270.1	264.7
45°	5918.4	4131.2	390.2	335.6	311.1	294.7	283.8	264.7	245.6	229.2	226.5
47.5°	6368.7	4215.8	357.5	308.3	289.2	275.6	259.2	234.7	207.4	191.0	188.3
50°	6704.3	4166.6	324.7	281.1	264.7	251.0	229.2	199.2	171.9	155.5	150.1
52.5°	6769.8	3951.1	294.7	259.2	240.1	223.7	199.2	166.4	136.4	120.1	117.3
55°	6723.4	3593.6	270.1	240.1	218.3	193.7	166.4	133.7	106.4	90.0	87.3
57.5°	6627.9	3170.7	242.8	215.6	191.0	166.4	136.4	109.1	79.1	62.8	62.8
60°	6303.2	2594.9	215.6	188.3	163.7	141.9	111.9	79.1	54.6	40.9	38.2
62.5°	5850.2	1994.6	188.3	161.0	141.9	117.3	87.3	57.3	32.7	21.8	21.8
65°	5023.4	1397.1	158.3	133.7	117.3	95.5	65.5	35.5	19.1	8.2	8.2
67.5°	3817.4	865.0	131.0	111.9	101.0	76.4	46.4	21.8	8.2	2.7	0.0
70°	2191.1	450.2	103.7	90.0	79.1	57.3	32.7	10.9	5.5	0.0	0.0
71°	1530.8	332.9	92.8	79.1	70.9	51.8	27.3	8.2	2.7	0.0	0.0
72.5°	766.7	221.0	79.1	65.5	57.3	40.9	21.8	8.2	2.7	0.0	0.0
75°	272.9	141.9	54.6	43.7	40.9	30.0	13.6	5.5	2.7	0.0	0.0
77.5°	188.3	114.6	38.2	27.3	27.3	19.1	8.2	2.7	2.7	0.0	0.0
80°	171.9	62.8	24.6	16.4	13.6	10.9	5.5	2.7	0.0	0.0	0.0
82.5°	171.9	46.4	13.6	10.9	8.2	5.5	2.7	0.0	0.0	0.0	0.0
85°	120.1	24.6	8.2	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	19.1	8.2	5.5	2.7	2.7	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)