

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: P484543

Luminaire Tested: **IFLD-L-SA8A-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484543
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-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

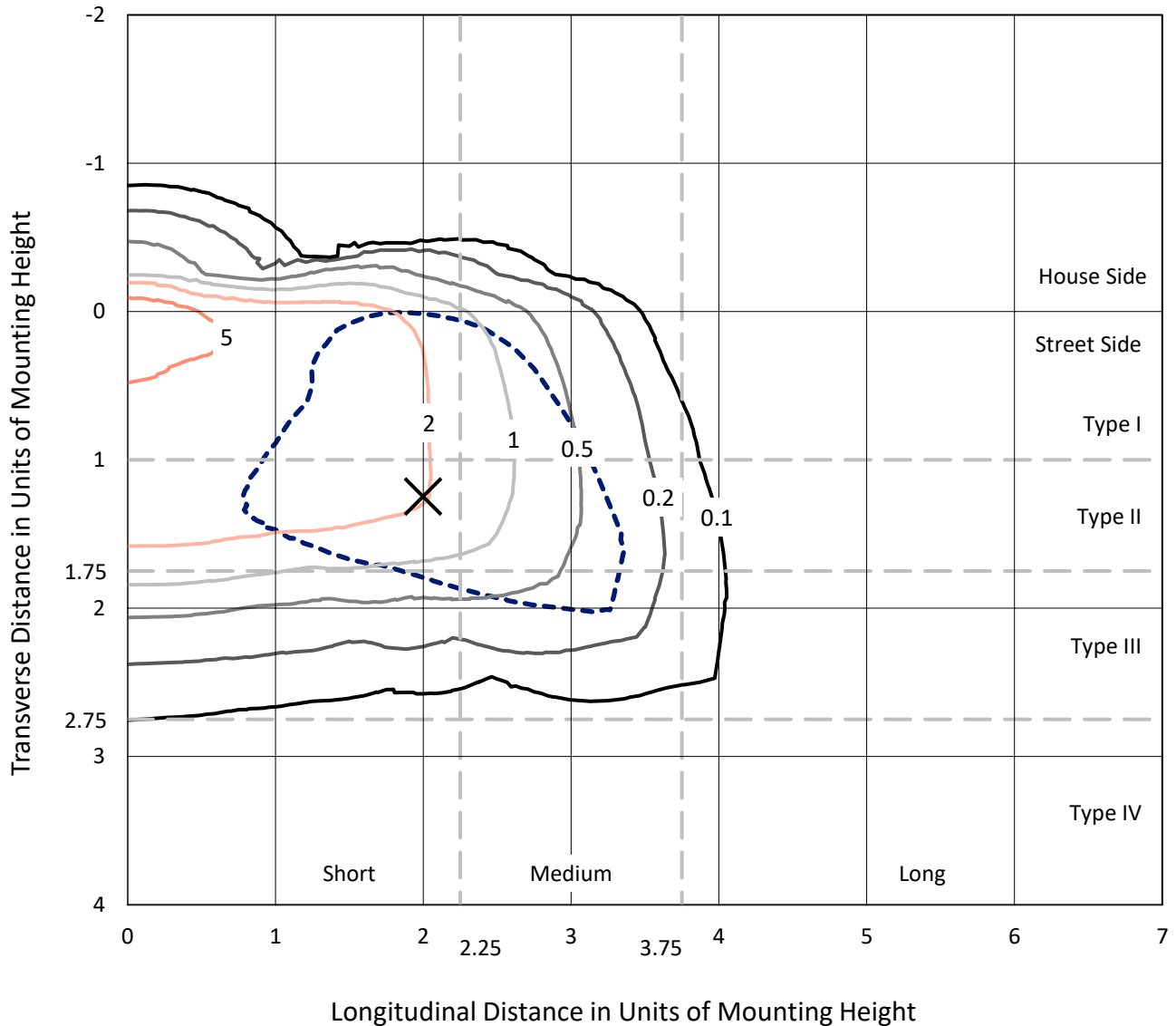
Lumens per Lamp: N/A
Luminaire Lumens: 21059.4 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

REPORT NUMBER: P484543
 CATALOG NUMBER: IFLD-L-SA8A-827-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

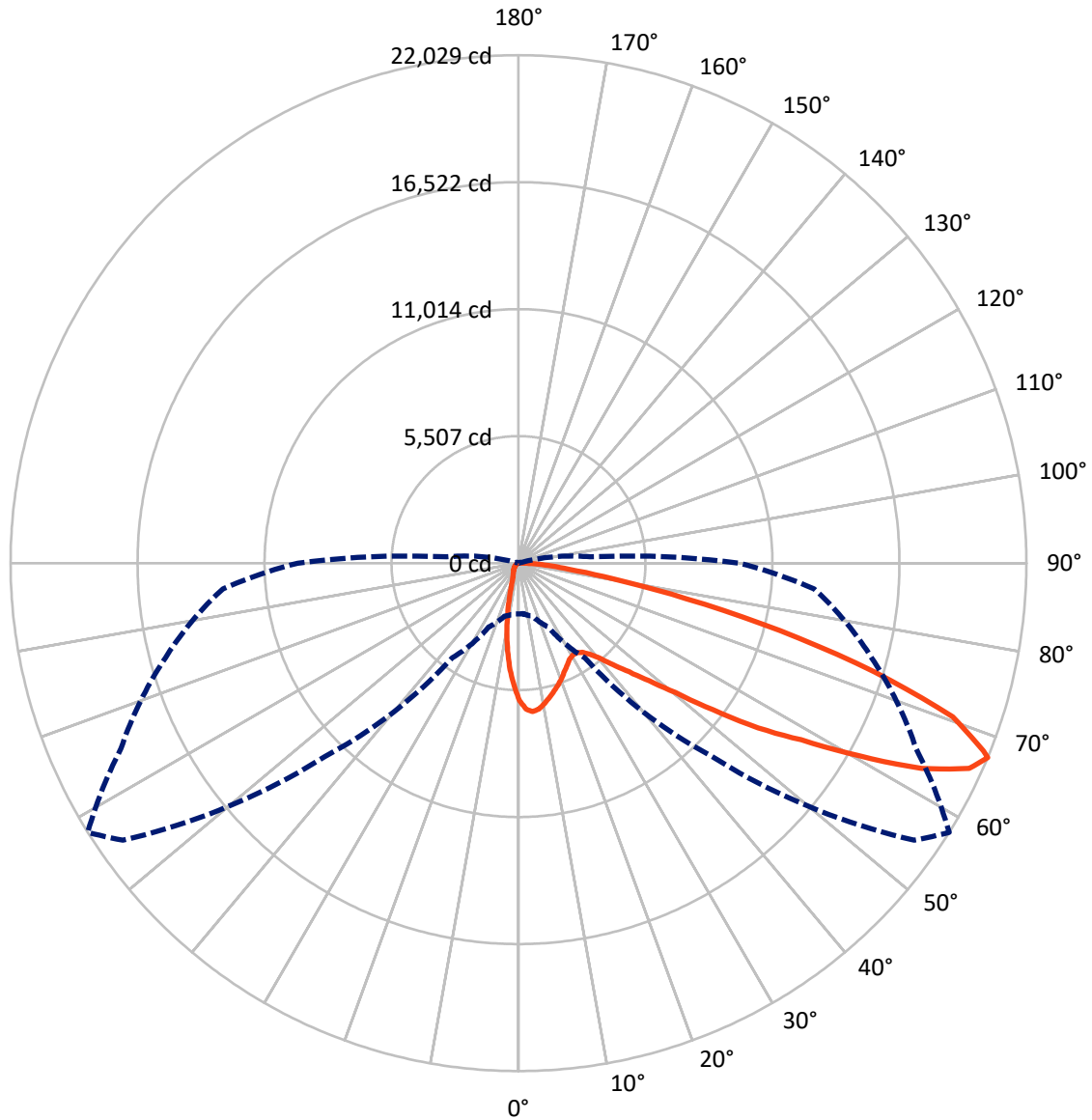
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

REPORT NUMBER: P484543
CATALOG NUMBER: IFLD-L-SA8A-827-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484543
 CATALOG NUMBER: IFLD-L-SA8A-827-U-SL3-HSS

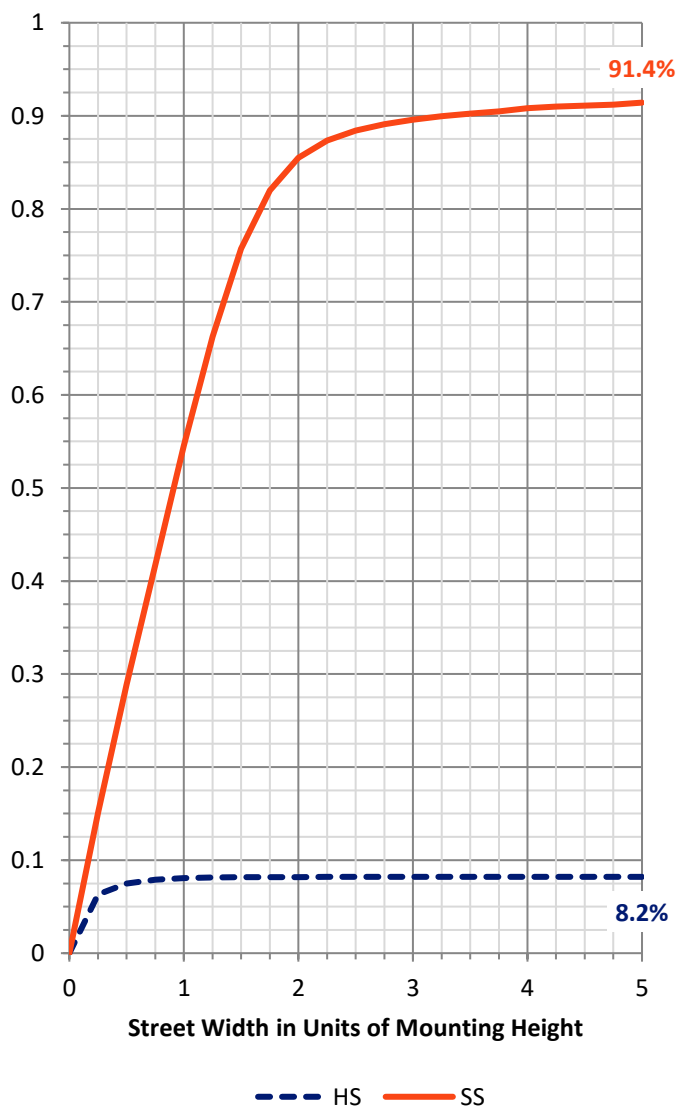
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1740.7	0.0	1740.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	19318.7	0.0	19318.7
	% Fixture	91.7	0.0	91.7
Total	Lumens	21059.4	0.0	21059.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.4	2.2
10°-20°	981.9	4.7
20°-30°	1302.8	6.2
30°-40°	1805.3	8.6
40°-50°	2945.7	14.0
50°-60°	5177.6	24.6
60°-70°	5734.6	27.2
70°-80°	2376.4	11.3
80°-90°	261.6	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°	21059.4	100.0
0°-180°	21059.4	100.0

Coefficient of Utilization

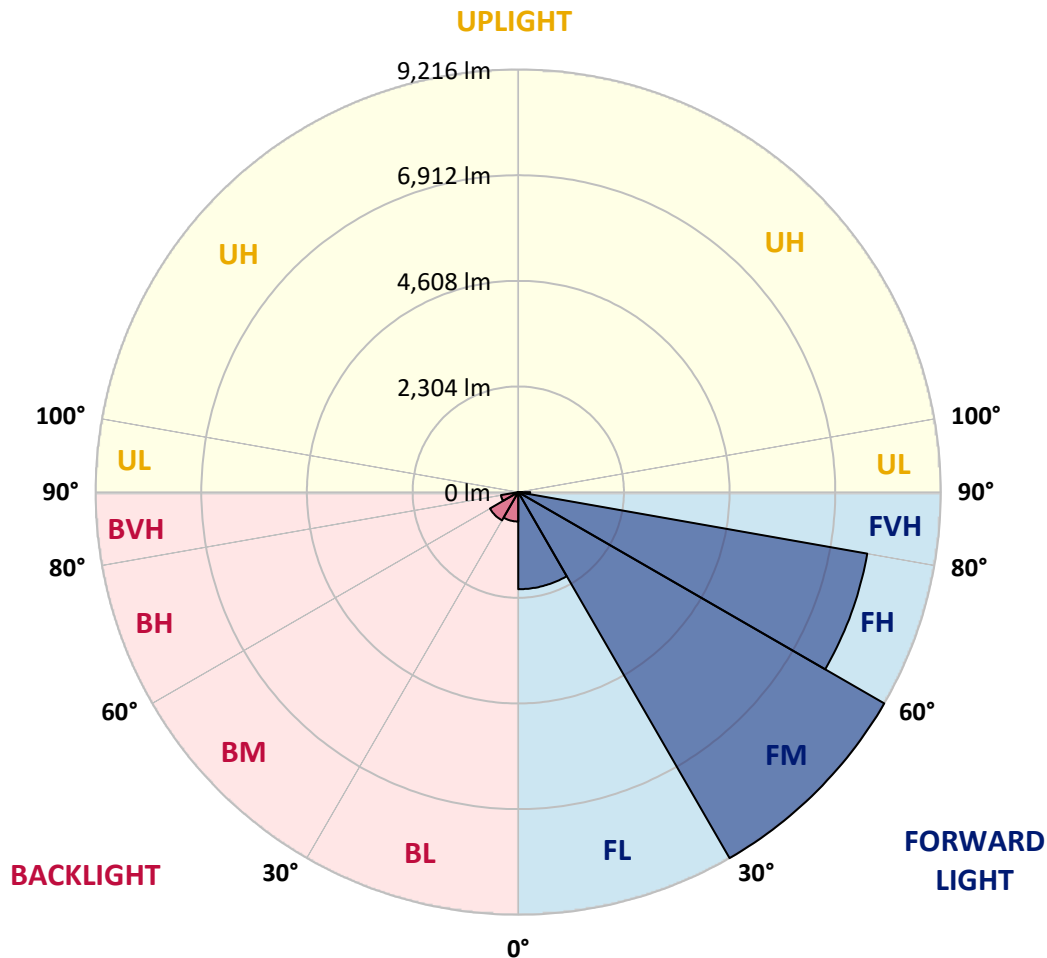


REPORT NUMBER: P484543
 CATALOG NUMBER: IFLD-L-SA8A-827-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2117.1	10.1			
FM (30°-60°)	9216.0	43.8			
FH (60°-80°)	7728.3	36.7			G4/12000
FVH (80°-90°)	257.3	1.2			G3/500
BL (0°-30°)	641.1	3.0	B2/1000		
BM (30°-60°)	712.6	3.4	B1/1000		
BH (60°-80°)	382.7	1.8	B1/500		G1/500
BVH (80°-90°)	4.3	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 III Short





REPORT NUMBER: P484543

CATALOG NUMBER: IFLD-L-SA8A-827-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4
2.5°	6492.0	6514.4	6534.0	6497.6	6528.4	6483.6	6369.0	6343.9	6324.3	6153.7	6055.9
5°	6489.2	6464.1	6483.6	6500.4	6458.5	6492.0	6464.1	6466.9	6391.4	6237.6	5963.6
7.5°	6055.9	6044.7	6055.9	6137.0	6229.2	6301.9	6343.9	6385.8	6335.5	6106.2	5840.6
10°	5471.5	5527.5	5558.2	5703.6	5846.2	5980.4	6111.8	6190.1	6176.1	6083.8	5706.4
12.5°	5063.3	5046.6	5158.4	5253.5	5396.1	5667.3	5896.5	5969.2	6053.1	5924.5	5530.3
15°	4685.9	4641.2	4708.3	4873.2	5116.5	5331.7	5653.3	5762.3	5868.6	5902.1	5435.2
17.5°	4325.2	4347.6	4417.5	4565.7	4794.9	5096.9	5398.8	5555.4	5809.8	5765.1	5292.6
20°	4151.9	4199.4	4224.6	4300.1	4459.4	4761.4	5211.5	5337.3	5608.5	5762.3	5152.8
22.5°	4160.3	4160.3	4101.6	4146.3	4291.7	4526.5	4957.1	5096.9	5527.5	5616.9	5027.0
25°	4249.7	4193.8	4196.6	4143.5	4205.0	4333.6	4727.8	4898.4	5362.5	5630.9	4959.9
27.5°	4316.8	4305.7	4288.9	4274.9	4196.6	4216.2	4576.9	4716.7	5298.2	5614.1	4856.4
30°	4560.1	4509.8	4493.0	4462.2	4358.8	4263.7	4456.6	4632.8	5247.9	5653.3	4797.7
32.5°	4764.2	4772.6	4786.5	4697.1	4607.6	4372.8	4490.2	4630.0	5211.5	5742.7	4856.4
35°	5021.4	5057.7	5063.3	5035.4	4940.3	4708.3	4630.0	4750.2	5273.0	5902.1	4862.0
37.5°	5412.8	5373.7	5479.9	5491.1	5424.0	5116.5	4954.3	5001.8	5454.8	6156.5	5074.5
40°	5667.3	5714.8	5913.3	6036.3	5921.7	5642.1	5424.0	5415.6	5717.6	6556.3	5337.3
42.5°	5949.6	6055.9	6274.0	6539.6	6525.6	6265.6	6044.7	6008.3	6184.5	7135.1	5753.9
45°	6335.5	6430.5	6735.3	7135.1	7353.2	7132.3	6799.6	6726.9	6752.1	7923.5	6464.1
47.5°	6975.7	6950.6	7389.5	7783.7	8141.6	7971.1	7828.5	7616.0	7596.4	8851.8	7445.4
50°	7699.9	7694.3	8085.7	8533.0	8946.8	9279.5	9041.9	8809.8	8815.4	10112.7	8600.1
52.5°	8387.6	8496.7	8918.9	9363.4	10073.6	10431.4	10660.7	10568.4	10123.9	11239.4	9835.9
55°	8751.1	8846.2	9265.6	10031.6	11152.8	12072.6	12693.3	12615.0	11756.7	12508.8	11054.9
57.5°	8407.2	8471.5	9039.1	10042.8	11907.7	13959.8	14555.4	14457.5	13445.4	13478.9	12528.3
60°	6967.3	7068.0	7912.3	9089.4	11614.1	15413.7	17119.2	16971.0	14983.1	14706.3	13476.1
62.5°	4825.7	4892.8	5586.2	7051.2	10221.7	15919.7	19540.4	19621.5	16604.7	15662.5	13758.5
65°	3125.8	3120.2	3517.2	4509.8	7244.1	14387.6	20971.9	21475.2	18170.4	15807.9	13671.9
67°	2208.7	2200.4	2387.7	3058.7	5015.8	11854.5	20946.7	22028.8	19020.4	15849.9	12869.4
67.5°	2038.2	2029.8	2208.7	2812.7	4526.5	11024.2	20633.6	21743.6	19319.5	15791.1	12517.2
70°	1582.5	1560.1	1627.2	1937.5	2636.5	7129.5	17658.8	19973.8	18698.9	14326.1	9995.3
72.5°	1143.5	1168.7	1274.9	1590.9	2069.0	3835.9	13459.4	16151.8	15617.8	10797.7	6352.2
75°	796.8	819.2	989.7	1297.3	1898.4	2326.2	9100.6	11714.7	10878.8	5960.8	2706.4
77.5°	416.6	444.5	631.9	1037.3	1725.1	1800.5	5438.0	7428.7	5765.1	2122.1	746.5
80°	192.9	206.9	315.9	735.3	1442.7	1582.5	3170.5	4132.3	2306.6	475.3	257.2
82.5°	83.9	92.3	145.4	422.2	1023.3	1384.0	1962.7	2166.8	836.0	153.8	159.4
85°	16.8	19.6	55.9	223.7	494.9	838.8	1378.4	1286.1	419.4	75.5	125.8
87.5°	0.0	0.0	14.0	64.3	134.2	248.8	584.3	584.3	128.6	39.1	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484543

CATALOG NUMBER: IFLD-L-SA8A-827-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4	5966.4
2.5°	5969.2	5868.6	5647.7	5443.6	5298.2	5133.2	4915.2	4817.3	4781.0	4730.6	4655.1
5°	5812.6	5689.6	5312.2	4931.9	4515.3	4199.4	3863.9	3668.2	3520.0	3427.8	3397.0
7.5°	5591.8	5340.1	4831.3	4221.8	3682.2	3212.5	2703.6	2359.7	2138.8	2049.4	1965.5
10°	5415.6	5088.5	4314.0	3556.4	2837.8	2150.0	1576.9	1274.9	1045.7	959.0	947.8
12.5°	5186.4	4794.9	3830.4	2877.0	1973.9	1280.5	872.3	757.7	693.4	682.2	673.8
15°	4996.2	4529.3	3371.8	2228.3	1277.7	799.6	679.4	651.4	634.7	629.1	631.9
17.5°	4867.6	4244.1	2902.1	1621.6	841.6	654.2	626.3	609.5	601.1	598.3	589.9
20°	4613.2	4003.7	2438.0	1135.1	657.0	603.9	581.5	567.6	559.2	556.4	553.6
22.5°	4467.8	3699.0	1973.9	791.2	584.3	548.0	531.2	520.0	506.1	497.7	494.9
25°	4322.4	3475.3	1560.1	615.1	531.2	506.1	480.9	466.9	444.5	433.4	430.6
27.5°	4151.9	3254.4	1202.2	534.0	478.1	452.9	427.8	405.4	377.4	366.3	360.7
30°	4054.0	3039.1	905.9	478.1	439.0	405.4	374.6	346.7	315.9	296.4	290.8
32.5°	4003.7	2843.4	679.4	436.2	397.0	360.7	321.5	288.0	260.0	243.2	240.4
35°	3942.2	2653.3	534.0	397.0	357.9	318.7	279.6	246.0	218.1	204.1	198.5
37.5°	4006.5	2541.5	444.5	366.3	327.1	282.4	240.4	206.9	184.5	170.5	167.8
40°	4182.6	2449.2	385.8	338.3	296.4	248.8	209.7	176.1	156.6	145.4	139.8
42.5°	4453.8	2449.2	349.5	310.3	268.4	218.1	178.9	153.8	134.2	123.0	120.2
45°	4945.9	2524.7	318.7	282.4	234.9	187.3	153.8	128.6	109.0	97.9	95.1
47.5°	5636.5	2698.0	293.6	257.2	209.7	165.0	134.2	109.0	89.5	78.3	75.5
50°	6564.7	3092.2	268.4	226.5	187.3	142.6	111.8	86.7	69.9	58.7	55.9
52.5°	7722.2	3651.4	243.2	209.7	159.4	120.2	89.5	69.9	53.1	44.7	41.9
55°	8946.8	4336.4	212.5	187.3	137.0	100.7	72.7	53.1	39.1	33.6	30.8
57.5°	10179.8	4864.8	187.3	162.2	111.8	81.1	58.7	41.9	28.0	22.4	19.6
60°	10834.0	4915.2	162.2	134.2	89.5	64.3	44.7	30.8	19.6	14.0	11.2
62.5°	10934.7	4467.8	139.8	109.0	72.7	50.3	30.8	22.4	11.2	5.6	5.6
65°	10417.5	3724.1	120.2	86.7	55.9	36.3	22.4	14.0	5.6	2.8	0.0
67°	9578.7	3120.2	103.4	72.7	44.7	28.0	16.8	8.4	2.8	0.0	0.0
67.5°	9254.4	2952.5	97.9	67.1	41.9	25.2	14.0	8.4	2.8	0.0	0.0
70°	7182.6	2108.1	72.7	47.5	30.8	19.6	11.2	5.6	0.0	0.0	0.0
72.5°	4400.7	1233.0	55.9	33.6	22.4	14.0	8.4	2.8	0.0	0.0	0.0
75°	1845.3	425.0	47.5	25.2	16.8	8.4	5.6	2.8	0.0	0.0	0.0
77.5°	480.9	159.4	33.6	16.8	11.2	8.4	5.6	2.8	0.0	0.0	0.0
80°	195.7	72.7	22.4	11.2	11.2	8.4	5.6	2.8	0.0	0.0	0.0
82.5°	128.6	33.6	14.0	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
85°	97.9	19.6	8.4	8.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	41.9	11.2	8.4	5.6	5.6	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)