

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: P484934

Luminaire Tested: **IFLD-L-SA8B-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484934
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-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

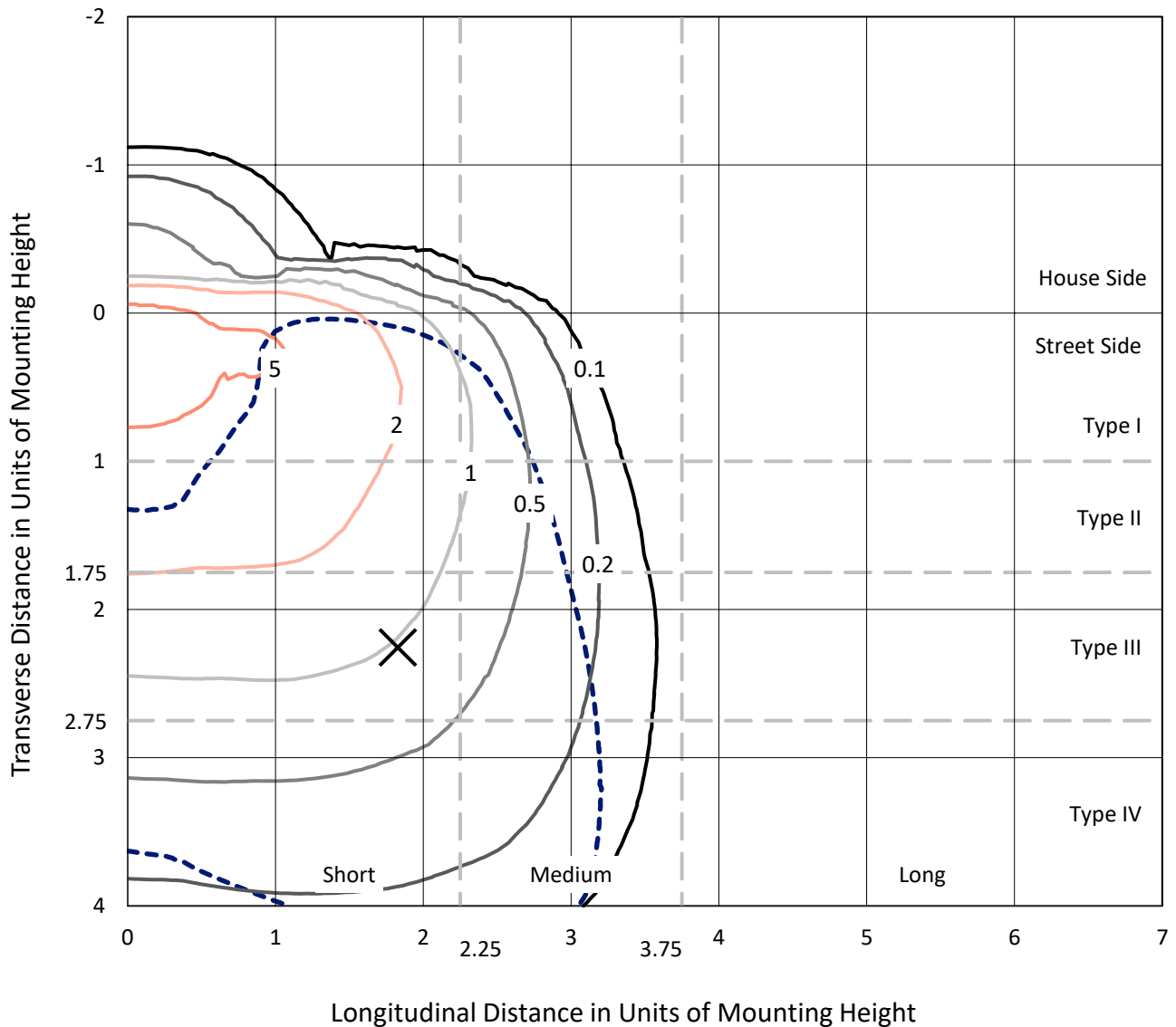
Lumens per Lamp: N/A
Luminaire Lumens: 24715.5 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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: P484934
 CATALOG NUMBER: IFLD-L-SA8B-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

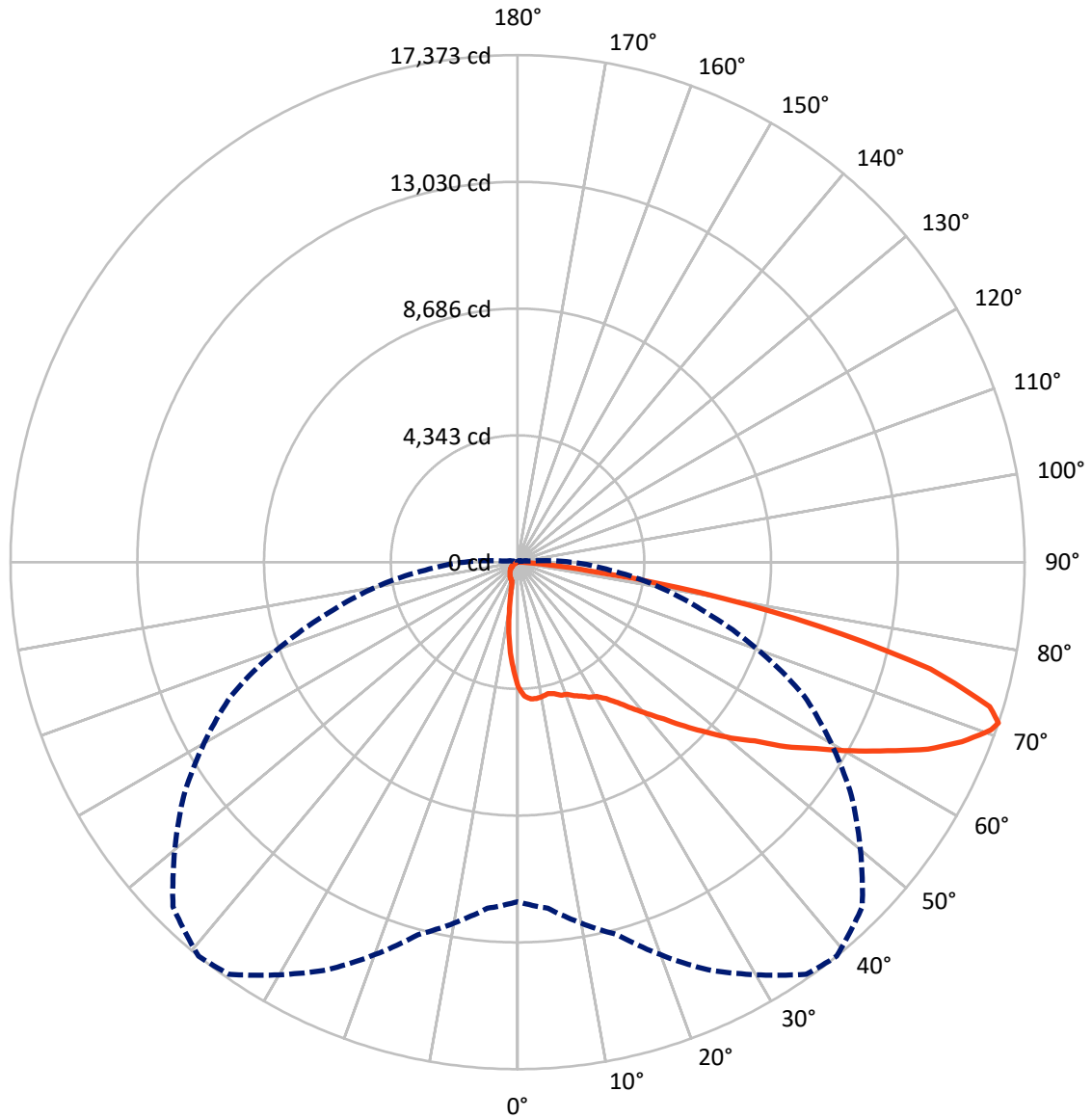
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P484934
CATALOG NUMBER: IFLD-L-SA8B-827-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484934
 CATALOG NUMBER: IFLD-L-SA8B-827-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.7	0.0	1860.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	22854.8	0.0	22854.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	24715.5	0.0	24715.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.7	1.5
10°-20°	885.3	3.6
20°-30°	1421.1	5.8
30°-40°	2175.4	8.8
40°-50°	3491.9	14.1
50°-60°	5129.1	20.8
60°-70°	6459.9	26.1
70°-80°	4311.2	17.4
80°-90°	481.8	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°	24715.5	100.0
0°-180°	24715.5	100.0

Coefficient of Utilization



REPORT NUMBER: P484934

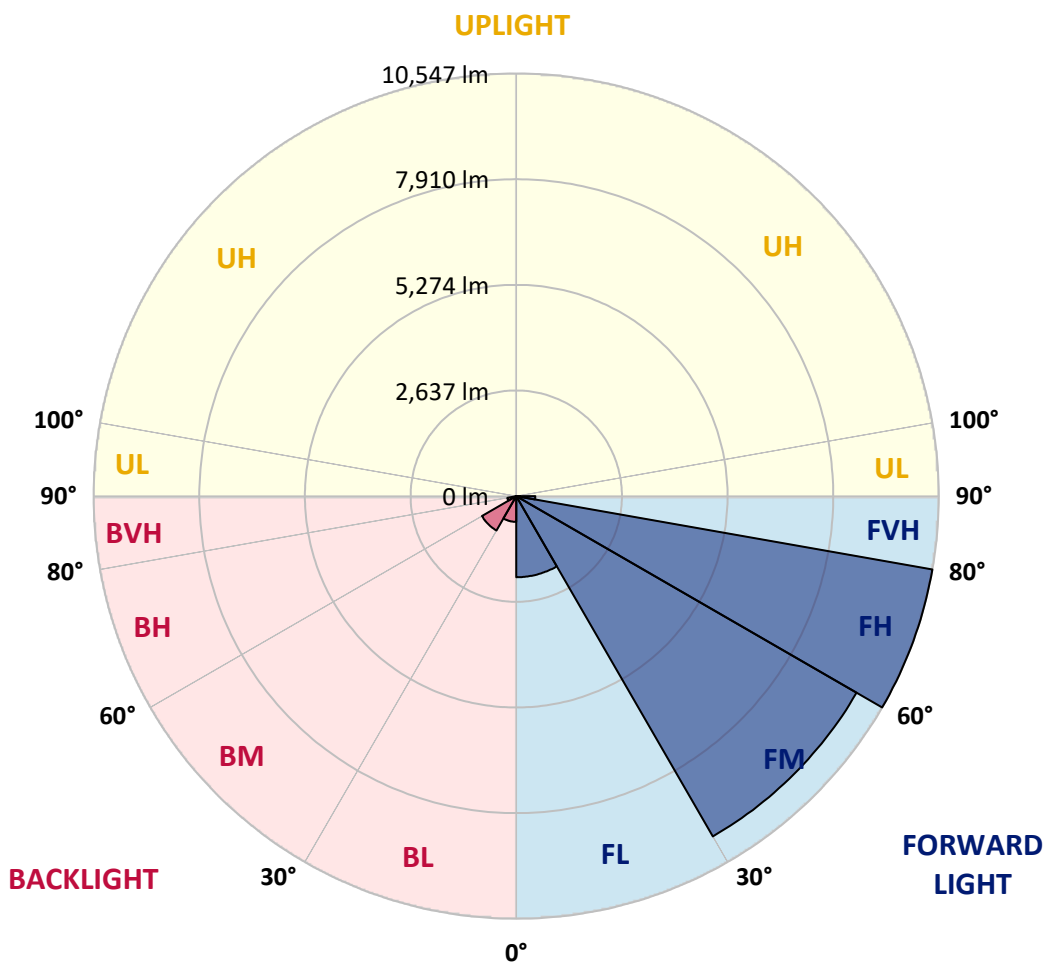
CATALOG NUMBER: IFLD-L-SA8B-827-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2023.7	8.2			
FM (30°-60°)	9807.5	39.7			
FH (60°-80°)	10547.2	42.7			G4/12000
FVH (80°-90°)	476.5	1.9			G3/500
BL (0°-30°)	642.4	2.6	B2/1000		
BM (30°-60°)	989.0	4.0	B1/1000		
BH (60°-80°)	223.9	0.9	B1/500		G1/500
BVH (80°-90°)	5.3	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 IV Short





REPORT NUMBER: P484934

CATALOG NUMBER: IFLD-L-SA8B-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9
2.5°	4635.8	4681.2	4635.8	4616.3	4596.9	4600.1	4548.3	4558.0	4496.4	4415.3	4350.5
5°	4781.7	4843.3	4794.6	4771.9	4768.7	4707.1	4681.2	4619.6	4545.0	4418.6	4340.8
7.5°	4768.7	4755.7	4778.4	4759.0	4716.8	4716.8	4687.7	4600.1	4525.6	4382.9	4250.0
10°	4671.4	4710.4	4690.9	4668.2	4677.9	4681.2	4626.1	4564.5	4541.8	4399.1	4181.9
12.5°	4661.7	4596.9	4668.2	4671.4	4629.3	4626.1	4619.6	4603.4	4532.1	4402.4	4198.1
15°	4629.3	4603.4	4674.7	4677.9	4687.7	4677.9	4687.7	4674.7	4603.4	4528.8	4269.5
17.5°	4655.2	4626.1	4726.6	4775.2	4752.5	4797.9	4781.7	4723.3	4661.7	4574.2	4337.5
20°	4661.7	4703.9	4814.1	4833.5	4904.9	4830.3	4827.1	4765.5	4726.6	4632.5	4379.7
22.5°	4781.7	4801.1	4937.3	4979.4	4982.7	4972.9	4891.9	4820.6	4804.4	4687.7	4389.4
25°	4963.2	5031.3	5092.9	5118.8	5128.5	5083.2	4998.9	4908.1	4869.2	4794.6	4489.9
27.5°	5284.2	5242.0	5297.1	5336.0	5225.8	5242.0	5135.0	5057.2	5002.1	4937.3	4606.6
30°	5569.4	5530.5	5533.8	5527.3	5433.3	5345.7	5316.6	5180.4	5112.3	5138.3	4788.2
32.5°	5825.5	5741.2	5812.6	5780.1	5605.1	5579.2	5556.5	5384.6	5397.6	5517.6	5060.5
35°	6062.2	6033.0	6091.4	6033.0	5916.3	5909.8	5887.1	5738.0	5809.3	5981.1	5527.3
37.5°	6279.4	6289.1	6360.4	6331.3	6341.0	6347.5	6334.5	6175.6	6379.9	6765.7	6071.9
40°	6480.4	6467.4	6642.5	6733.2	6752.7	6824.0	6824.0	6785.1	7099.6	7534.0	6827.3
42.5°	6694.3	6726.8	6953.7	7106.0	7290.8	7352.4	7436.7	7456.2	7942.4	8438.4	7598.8
45°	7044.5	6989.3	7277.9	7637.7	7799.8	8017.0	8146.7	8256.9	8843.7	9524.4	8370.4
47.5°	7488.6	7378.4	7631.2	8153.2	8529.2	8707.5	8940.9	9086.8	9660.6	10364.1	9099.8
50°	7981.3	7867.9	7991.1	8710.7	9148.4	9472.6	9770.8	9955.6	10649.3	11304.2	9631.4
52.5°	8538.9	8435.2	8454.6	9291.0	9936.1	10172.8	10565.1	10840.6	11531.1	11871.5	9819.4
55°	9132.2	9106.2	9044.7	9858.3	10626.7	11158.3	11395.0	11725.6	12435.6	12179.5	10023.7
57.5°	9728.7	9647.6	9735.2	10610.4	11735.4	12053.1	12380.5	12578.2	12938.1	12448.6	9945.9
60°	10289.5	10296.0	10419.2	11427.4	12678.7	13129.3	13424.3	13304.4	13453.5	12565.3	9767.6
62.5°	10762.8	10749.8	11061.1	12344.8	13926.8	14231.5	14452.0	13917.1	13693.4	12678.7	9456.4
65°	11187.5	11333.4	11822.9	13437.3	15100.4	15450.5	15317.6	14497.4	13926.8	12344.8	8581.1
67.5°	11508.4	11725.6	12575.0	14465.0	16176.6	16423.0	16238.2	14938.3	13651.3	11035.1	6989.3
70°	11696.5	11916.9	13113.1	15320.8	17035.7	17214.0	16779.6	14597.9	12043.3	7991.1	4360.2
71°	11638.1	11907.2	13216.9	15411.6	17239.9	17372.9	16698.6	13969.0	10830.9	6691.1	3180.2
72.5°	11109.7	11362.5	12785.7	15346.7	16993.6	16912.5	16066.4	12458.3	8526.0	4266.2	1643.6
75°	8162.9	8435.2	10973.5	13275.2	15168.4	14610.8	13002.9	8743.2	4447.8	1306.4	479.8
77.5°	4065.2	4110.6	6811.0	9637.9	11125.9	10571.5	8714.0	4875.7	1663.0	385.8	239.9
80°	1873.8	1886.7	2554.5	4992.4	6726.8	6331.3	4882.2	2405.4	752.1	204.2	188.0
82.5°	1277.3	1296.7	1539.9	2068.3	2920.9	2463.8	1977.5	1539.9	431.2	123.2	184.8
85°	233.4	214.0	862.3	1095.7	1128.2	765.1	684.0	1332.4	162.1	71.3	162.1
87.5°	0.0	3.2	119.9	447.4	402.0	178.3	233.4	324.2	16.2	22.7	29.2
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: P484934

CATALOG NUMBER: IFLD-L-SA8B-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9	4301.9
2.5°	4295.4	4259.7	4139.8	4006.9	3886.9	3792.9	3673.0	3617.9	3530.3	3481.7	3478.5
5°	4233.8	4136.6	3929.1	3705.4	3455.8	3248.3	3018.1	2888.5	2739.3	2693.9	2684.2
7.5°	4130.1	3990.7	3685.9	3371.5	2988.9	2622.6	2340.6	2039.1	1854.3	1776.5	1747.3
10°	4065.2	3896.7	3481.7	3011.6	2476.7	1961.3	1565.8	1244.9	1076.3	995.2	975.8
12.5°	4065.2	3883.7	3316.4	2668.0	1958.1	1342.1	969.3	784.5	729.4	710.0	710.0
15°	4055.5	3857.8	3157.5	2314.7	1449.1	901.2	722.9	684.0	677.5	674.3	671.1
17.5°	4104.1	3812.4	2995.4	1935.4	1024.4	710.0	664.6	658.1	651.6	651.6	645.1
20°	4139.8	3786.4	2800.9	1533.4	765.1	658.1	638.6	628.9	625.7	622.4	628.9
22.5°	4110.6	3747.5	2561.0	1147.6	667.8	625.7	612.7	603.0	596.5	596.5	599.7
25°	4165.7	3711.9	2321.1	865.6	625.7	596.5	583.5	577.0	573.8	570.6	564.1
27.5°	4240.3	3728.1	2035.9	697.0	590.0	567.3	554.3	547.9	544.6	538.1	544.6
30°	4331.1	3724.8	1721.4	609.5	557.6	534.9	521.9	518.7	512.2	509.0	512.2
32.5°	4486.7	3809.1	1397.2	564.1	521.9	502.5	489.5	486.3	483.0	479.8	476.5
35°	4820.6	3912.9	1092.5	528.4	489.5	466.8	457.1	450.6	447.4	444.1	440.9
37.5°	5232.3	4143.0	833.1	496.0	457.1	434.4	424.7	421.4	408.5	405.2	402.0
40°	5747.7	4389.4	641.9	460.3	427.9	405.2	395.5	385.8	369.6	363.1	356.6
42.5°	6389.6	4629.3	528.4	427.9	395.5	379.3	363.1	346.9	333.9	320.9	314.5
45°	7031.5	4908.1	463.6	398.7	369.6	350.1	337.1	314.5	291.8	272.3	269.1
47.5°	7566.4	5008.6	424.7	366.3	343.6	327.4	308.0	278.8	246.4	226.9	223.7
50°	7965.1	4950.2	385.8	333.9	314.5	298.2	272.3	236.7	204.2	184.8	178.3
52.5°	8042.9	4694.1	350.1	308.0	285.3	265.8	236.7	197.8	162.1	142.6	139.4
55°	7987.8	4269.5	320.9	285.3	259.3	230.2	197.8	158.8	126.4	107.0	103.7
57.5°	7874.4	3767.0	288.5	256.1	226.9	197.8	162.1	129.7	94.0	74.6	74.6
60°	7488.6	3083.0	256.1	223.7	194.5	168.6	132.9	94.0	64.8	48.6	45.4
62.5°	6950.4	2369.8	223.7	191.3	168.6	139.4	103.7	68.1	38.9	25.9	25.9
65°	5968.2	1659.8	188.0	158.8	139.4	113.5	77.8	42.1	22.7	9.7	9.7
67.5°	4535.3	1027.7	155.6	132.9	119.9	90.8	55.1	25.9	9.7	3.2	0.0
70°	2603.2	534.9	123.2	107.0	94.0	68.1	38.9	13.0	6.5	0.0	0.0
71°	1818.7	395.5	110.2	94.0	84.3	61.6	32.4	9.7	3.2	0.0	0.0
72.5°	910.9	262.6	94.0	77.8	68.1	48.6	25.9	9.7	3.2	0.0	0.0
75°	324.2	168.6	64.8	51.9	48.6	35.7	16.2	6.5	3.2	0.0	0.0
77.5°	223.7	136.2	45.4	32.4	32.4	22.7	9.7	3.2	3.2	0.0	0.0
80°	204.2	74.6	29.2	19.5	16.2	13.0	6.5	3.2	0.0	0.0	0.0
82.5°	204.2	55.1	16.2	13.0	9.7	6.5	3.2	0.0	0.0	0.0	0.0
85°	142.6	29.2	9.7	9.7	6.5	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	22.7	9.7	6.5	3.2	3.2	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)