

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: P484697

Luminaire Tested: **IFLD-L-SA7D-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484697
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

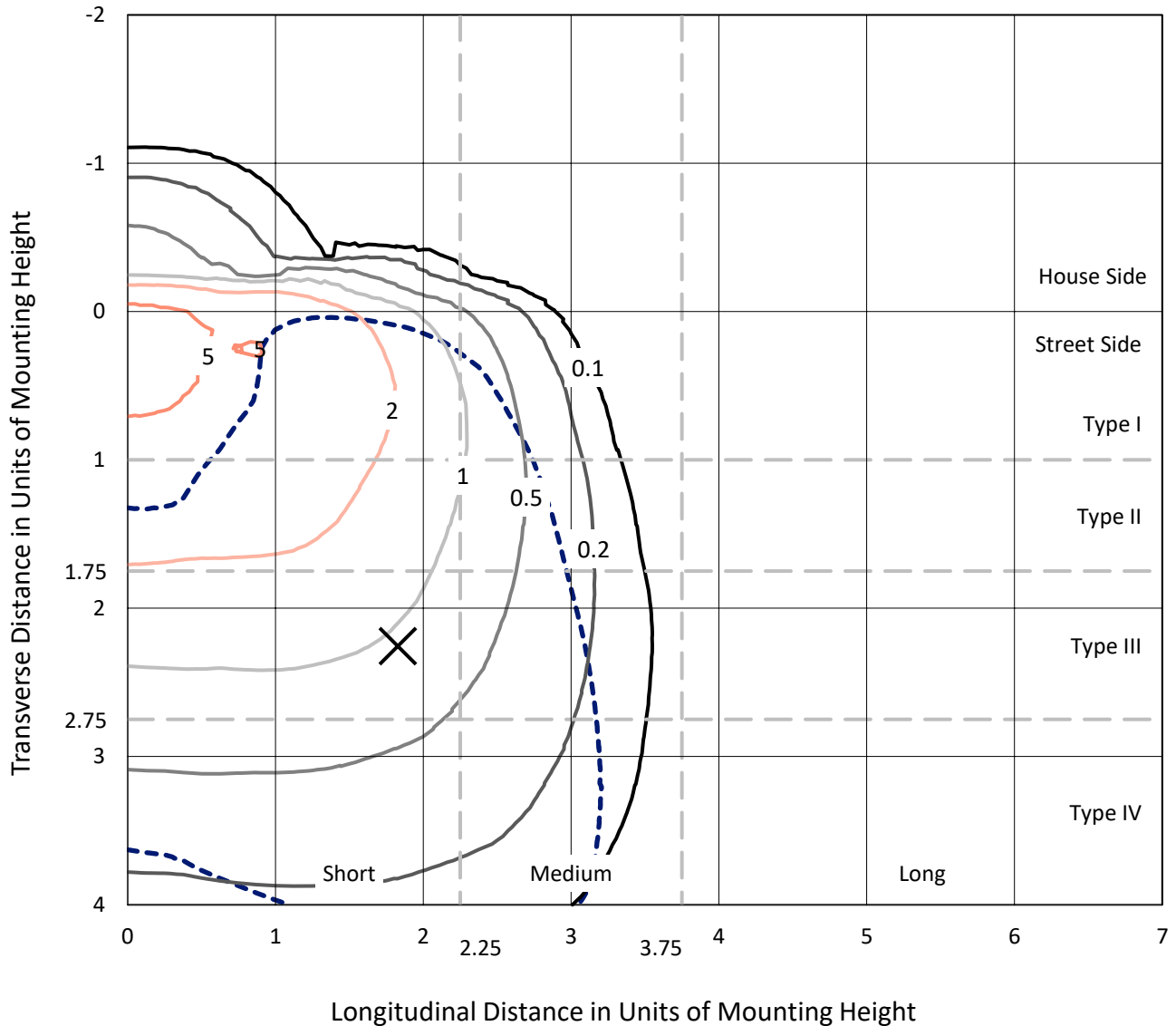
Lumens per Lamp: N/A
Luminaire Lumens: 33700.6 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
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

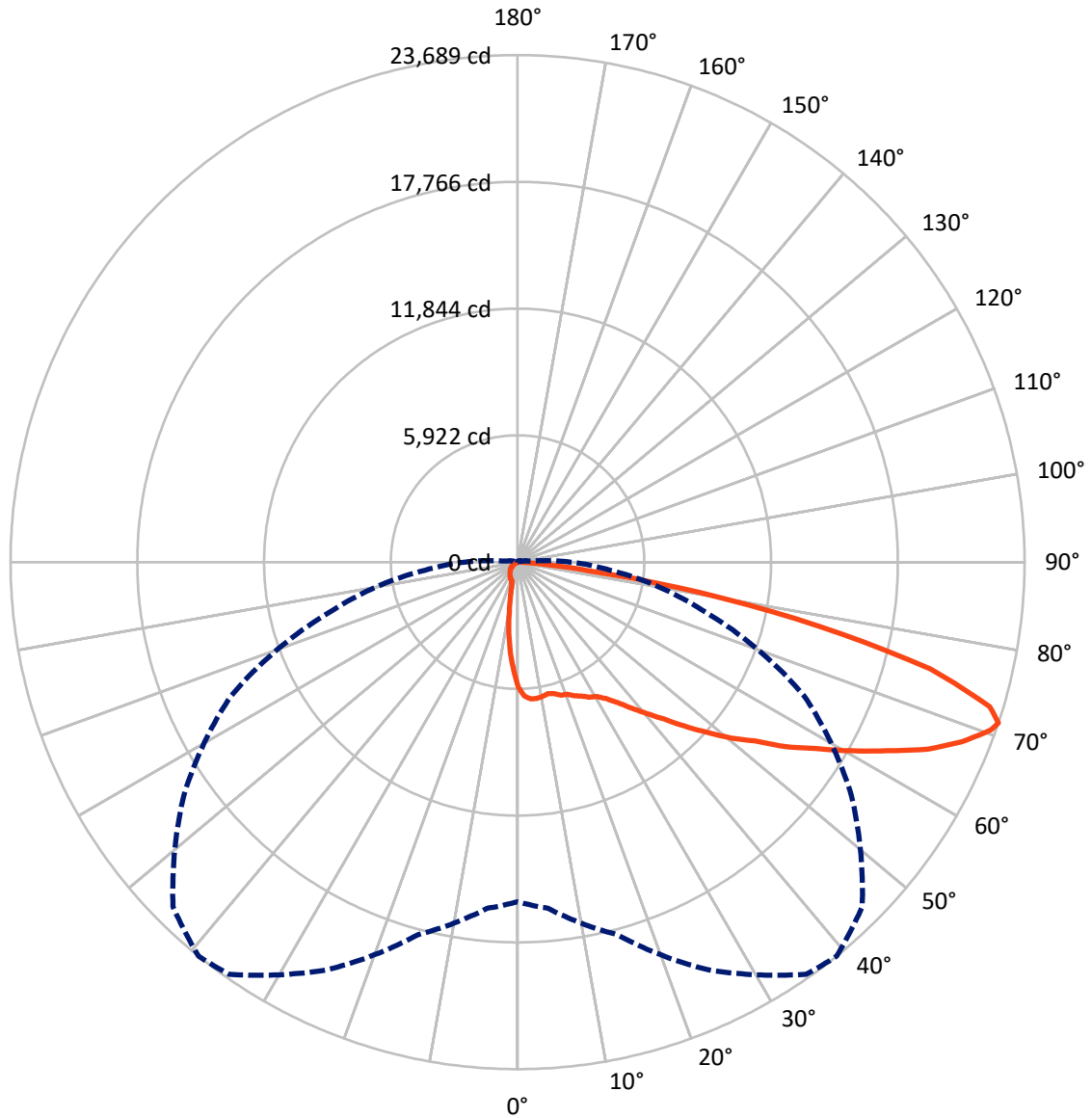
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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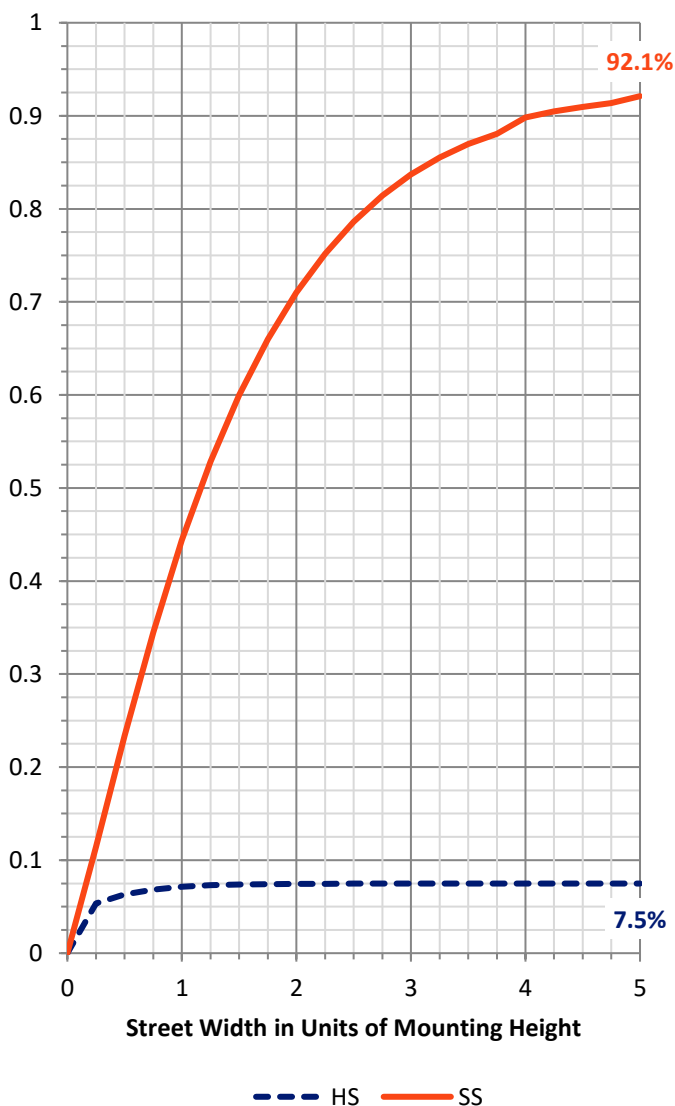
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2537.1	0.0	2537.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	31163.5	0.0	31163.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	33700.6	0.0	33700.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.4	1.5
10°-20°	1207.1	3.6
20°-30°	1937.8	5.8
30°-40°	2966.3	8.8
40°-50°	4761.4	14.1
50°-60°	6993.8	20.8
60°-70°	8808.4	26.1
70°-80°	5878.5	17.4
80°-90°	656.9	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°	33700.6	100.0
0°-180°	33700.6	100.0

Coefficient of Utilization



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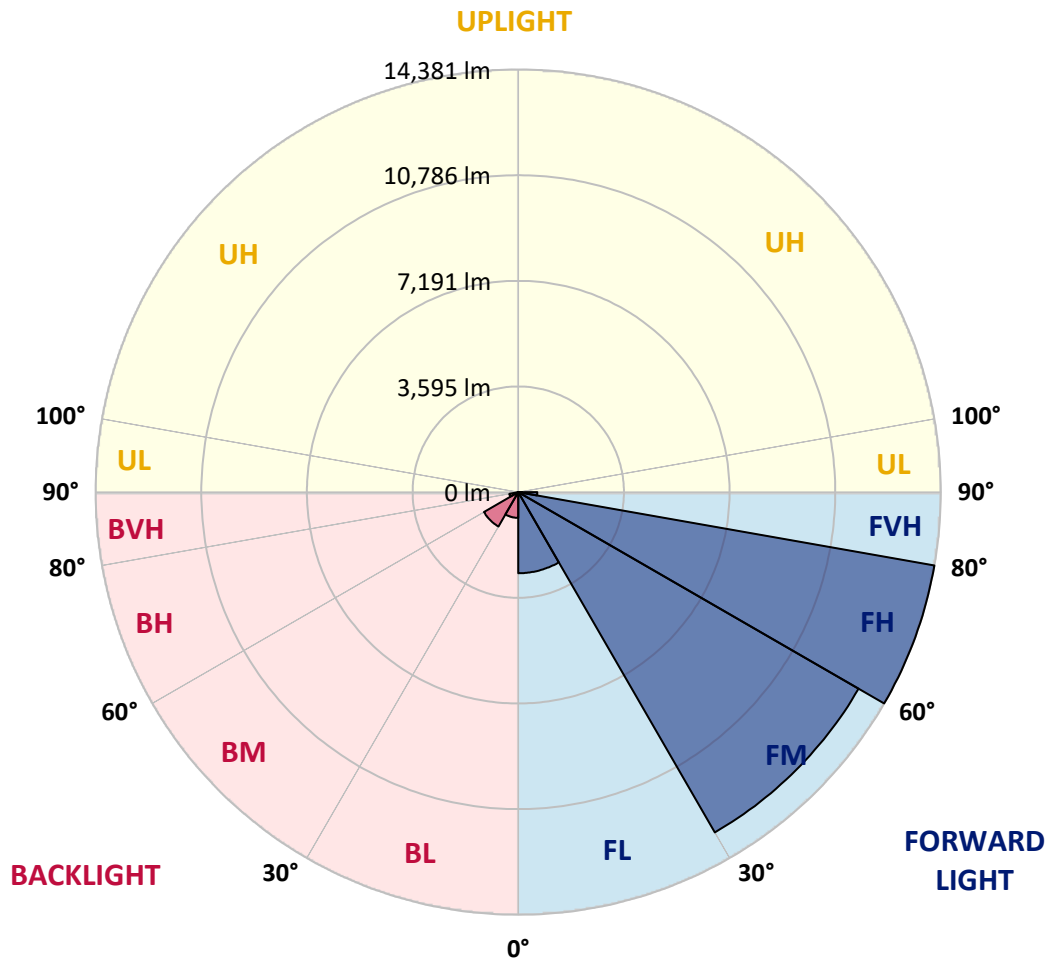
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2759.4	8.2			
FM (30°-60°)	13372.9	39.7			
FH (60°-80°)	14381.5	42.7			G5
FVH (80°-90°)	649.7	1.9			G4/750
BL (0°-30°)	875.9	2.6	B2/1000		
BM (30°-60°)	1348.6	4.0	B2/2500		
BH (60°-80°)	305.4	0.9	B1/500		G1/500
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8
2.5°	6321.1	6383.0	6321.1	6294.6	6268.1	6272.5	6201.7	6215.0	6131.0	6020.5	5932.1
5°	6520.0	6604.0	6537.7	6506.8	6502.3	6418.3	6383.0	6299.0	6197.3	6024.9	5918.8
7.5°	6502.3	6484.7	6515.6	6489.1	6431.6	6431.6	6391.8	6272.5	6170.8	5976.3	5795.1
10°	6369.7	6422.8	6396.2	6365.3	6378.6	6383.0	6307.8	6223.8	6192.9	5998.4	5702.2
12.5°	6356.5	6268.1	6365.3	6369.7	6312.3	6307.8	6299.0	6276.9	6179.6	6002.8	5724.4
15°	6312.3	6276.9	6374.1	6378.6	6391.8	6378.6	6391.8	6374.1	6276.9	6175.2	5821.6
17.5°	6347.6	6307.8	6444.9	6511.2	6480.2	6542.1	6520.0	6440.4	6356.5	6237.1	5914.4
20°	6356.5	6413.9	6564.2	6590.7	6688.0	6586.3	6581.9	6497.9	6444.9	6316.7	5971.9
22.5°	6520.0	6546.5	6732.2	6789.7	6794.1	6780.8	6670.3	6573.1	6551.0	6391.8	5985.2
25°	6767.6	6860.4	6944.4	6979.7	6993.0	6931.1	6816.2	6692.4	6639.4	6537.7	6122.2
27.5°	7205.2	7147.7	7222.8	7275.9	7125.6	7147.7	7001.8	6895.7	6820.6	6732.2	6281.3
30°	7594.2	7541.1	7545.5	7536.7	7408.5	7289.2	7249.4	7063.7	6970.9	7006.3	6528.9
32.5°	7943.4	7828.4	7925.7	7881.5	7642.8	7607.4	7576.5	7342.2	7359.9	7523.4	6900.2
35°	8266.1	8226.3	8305.8	8226.3	8067.1	8058.3	8027.4	7824.0	7921.3	8155.5	7536.7
37.5°	8562.2	8575.5	8672.7	8632.9	8646.2	8655.0	8637.4	8420.8	8699.2	9225.3	8279.3
40°	8836.3	8818.6	9057.3	9181.1	9207.6	9304.8	9304.8	9251.8	9680.6	10272.9	9309.3
42.5°	9128.0	9172.2	9481.6	9689.4	9941.4	10025.3	10140.3	10166.8	10829.9	11506.2	10361.3
45°	9605.4	9530.3	9923.7	10414.3	10635.4	10931.5	11108.3	11258.6	12058.7	12987.0	11413.3
47.5°	10211.0	10060.7	10405.5	11117.2	11629.9	11873.1	12191.3	12390.2	13172.6	14131.9	12407.9
50°	10882.9	10728.2	10896.2	11877.5	12474.2	12916.3	13322.9	13574.9	14520.8	15413.8	13132.9
52.5°	11643.2	11501.7	11528.3	12668.7	13548.4	13871.1	14405.9	14781.6	15723.2	16187.3	13389.2
55°	12452.1	12416.8	12332.8	13442.3	14489.9	15214.8	15537.5	15988.4	16956.5	16607.2	13667.7
57.5°	13265.5	13155.0	13274.3	14467.8	16001.7	16434.9	16881.3	17151.0	17641.6	16974.1	13561.6
60°	14030.2	14039.0	14207.0	15581.7	17288.0	17902.4	18304.7	18141.1	18344.4	17133.3	13318.5
62.5°	14675.6	14657.9	15082.2	16832.7	18989.8	19405.3	19705.9	18976.6	18671.5	17288.0	12894.2
65°	15254.6	15453.5	16121.0	18322.3	20590.0	21067.4	20886.1	19767.8	18989.8	16832.7	11700.7
67.5°	15692.2	15988.4	17146.5	19723.6	22057.5	22393.5	22141.5	20369.0	18614.1	15046.9	9530.3
70°	15948.6	16249.2	17880.3	20890.6	23228.9	23472.0	22879.7	19904.8	16421.6	10896.2	5945.4
71°	15869.0	16235.9	18021.8	21014.3	23507.4	23688.6	22769.2	19047.3	14768.4	9123.6	4336.4
72.5°	15148.5	15493.3	17433.9	20925.9	23171.5	23061.0	21907.2	16987.4	11625.5	5817.2	2241.1
75°	11130.4	11501.7	14962.9	18101.3	20682.8	19922.5	17730.0	11921.7	6064.7	1781.4	654.2
77.5°	5543.1	5605.0	9287.2	13141.7	15170.6	14414.8	11881.9	6648.2	2267.6	526.0	327.1
80°	2555.0	2572.6	3483.2	6807.3	9172.2	8632.9	6657.0	3279.9	1025.5	278.5	256.4
82.5°	1741.6	1768.1	2099.7	2820.2	3982.7	3359.5	2696.4	2099.7	587.9	168.0	252.0
85°	318.3	291.7	1175.8	1494.1	1538.3	1043.2	932.7	1816.8	221.0	97.2	221.0
87.5°	0.0	4.4	163.6	610.0	548.1	243.1	318.3	442.0	22.1	30.9	39.8
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°	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8	5865.8
2.5°	5857.0	5808.3	5644.8	5463.6	5300.0	5171.8	5008.3	4933.1	4813.8	4747.5	4743.0
5°	5773.0	5640.4	5357.5	5052.5	4712.1	4429.2	4115.3	3938.5	3735.2	3673.3	3660.0
7.5°	5631.5	5441.4	5025.9	4597.2	4075.6	3576.1	3191.5	2780.4	2528.4	2422.4	2382.6
10°	5543.1	5313.3	4747.5	4106.5	3377.1	2674.3	2135.0	1697.4	1467.6	1357.0	1330.5
12.5°	5543.1	5295.6	4522.0	3637.9	2669.9	1830.0	1321.7	1069.7	994.6	968.1	968.1
15°	5529.9	5260.2	4305.4	3156.1	1975.9	1228.9	985.7	932.7	923.9	919.4	915.0
17.5°	5596.2	5198.3	4084.4	2638.9	1396.8	968.1	906.2	897.3	888.5	888.5	879.6
20°	5644.8	5163.0	3819.2	2090.8	1043.2	897.3	870.8	857.5	853.1	848.7	857.5
22.5°	5605.0	5109.9	3492.1	1564.8	910.6	853.1	835.4	822.2	813.3	813.3	817.8
25°	5680.1	5061.3	3165.0	1180.2	853.1	813.3	795.7	786.8	782.4	778.0	769.1
27.5°	5781.8	5083.4	2776.0	950.4	804.5	773.6	755.9	747.0	742.6	733.8	742.6
30°	5905.6	5079.0	2347.2	831.0	760.3	729.4	711.7	707.3	698.4	694.0	698.4
32.5°	6117.8	5193.9	1905.2	769.1	711.7	685.2	667.5	663.1	658.6	654.2	649.8
35°	6573.1	5335.4	1489.7	720.5	667.5	636.5	623.3	614.4	610.0	605.6	601.2
37.5°	7134.4	5649.2	1136.0	676.3	623.3	592.3	579.1	574.6	557.0	552.5	548.1
40°	7837.3	5985.2	875.2	627.7	583.5	552.5	539.3	526.0	503.9	495.1	486.2
42.5°	8712.5	6312.3	720.5	583.5	539.3	517.2	495.1	473.0	455.3	437.6	428.8
45°	9587.7	6692.4	632.1	543.7	503.9	477.4	459.7	428.8	397.8	371.3	366.9
47.5°	10317.1	6829.4	579.1	499.5	468.6	446.5	419.9	380.1	335.9	309.4	305.0
50°	10860.8	6749.9	526.0	455.3	428.8	406.7	371.3	322.7	278.5	252.0	243.1
52.5°	10966.9	6400.7	477.4	419.9	389.0	362.5	322.7	269.6	221.0	194.5	190.1
55°	10891.7	5821.6	437.6	389.0	353.6	313.8	269.6	216.6	172.4	145.9	141.5
57.5°	10737.0	5136.4	393.4	349.2	309.4	269.6	221.0	176.8	128.2	101.7	101.7
60°	10211.0	4203.8	349.2	305.0	265.2	229.9	181.2	128.2	88.4	66.3	61.9
62.5°	9477.2	3231.3	305.0	260.8	229.9	190.1	141.5	92.8	53.0	35.4	35.4
65°	8137.9	2263.2	256.4	216.6	190.1	154.7	106.1	57.5	30.9	13.3	13.3
67.5°	6184.1	1401.3	212.2	181.2	163.6	123.8	75.1	35.4	13.3	4.4	0.0
70°	3549.5	729.4	168.0	145.9	128.2	92.8	53.0	17.7	8.8	0.0	0.0
71°	2479.8	539.3	150.3	128.2	114.9	84.0	44.2	13.3	4.4	0.0	0.0
72.5°	1242.1	358.0	128.2	106.1	92.8	66.3	35.4	13.3	4.4	0.0	0.0
75°	442.0	229.9	88.4	70.7	66.3	48.6	22.1	8.8	4.4	0.0	0.0
77.5°	305.0	185.7	61.9	44.2	44.2	30.9	13.3	4.4	4.4	0.0	0.0
80°	278.5	101.7	39.8	26.5	22.1	17.7	8.8	4.4	0.0	0.0	0.0
82.5°	278.5	75.1	22.1	17.7	13.3	8.8	4.4	0.0	0.0	0.0	0.0
85°	194.5	39.8	13.3	13.3	8.8	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	30.9	13.3	8.8	4.4	4.4	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)