

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: P484428

Luminaire Tested: **IFLD-L-SA8C-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484428
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

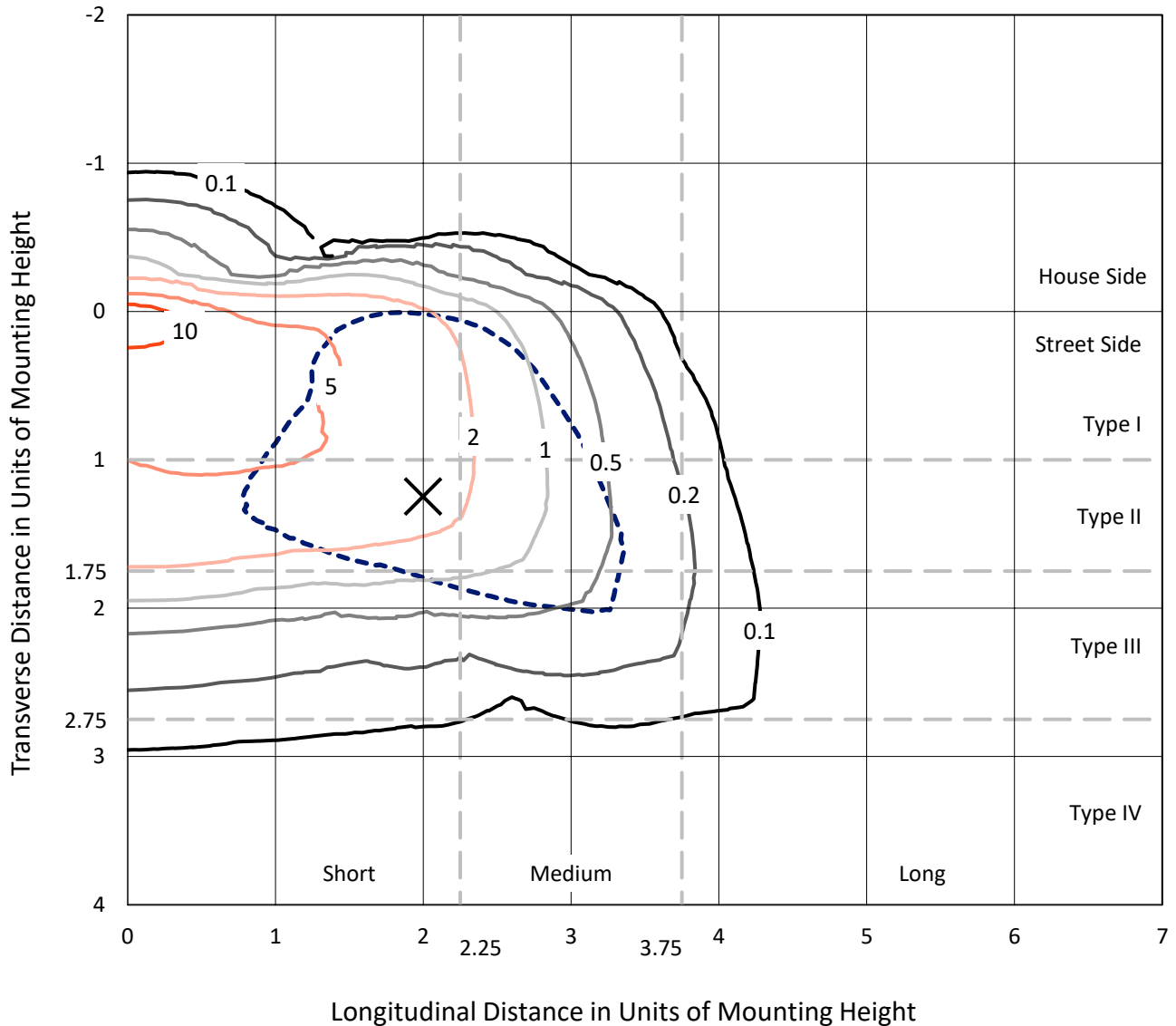
Lumens per Lamp: N/A
Luminaire Lumens: 42370 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

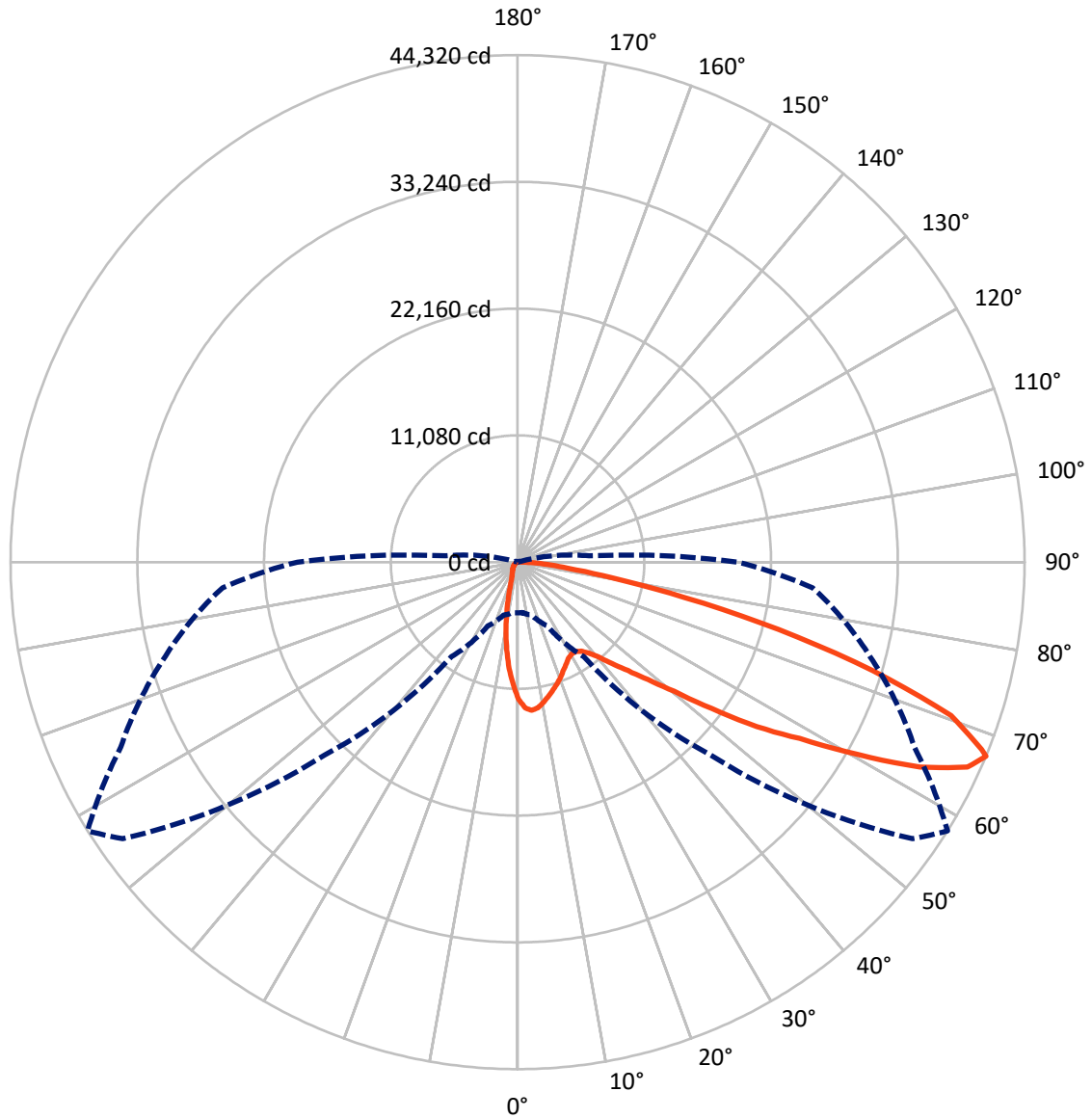
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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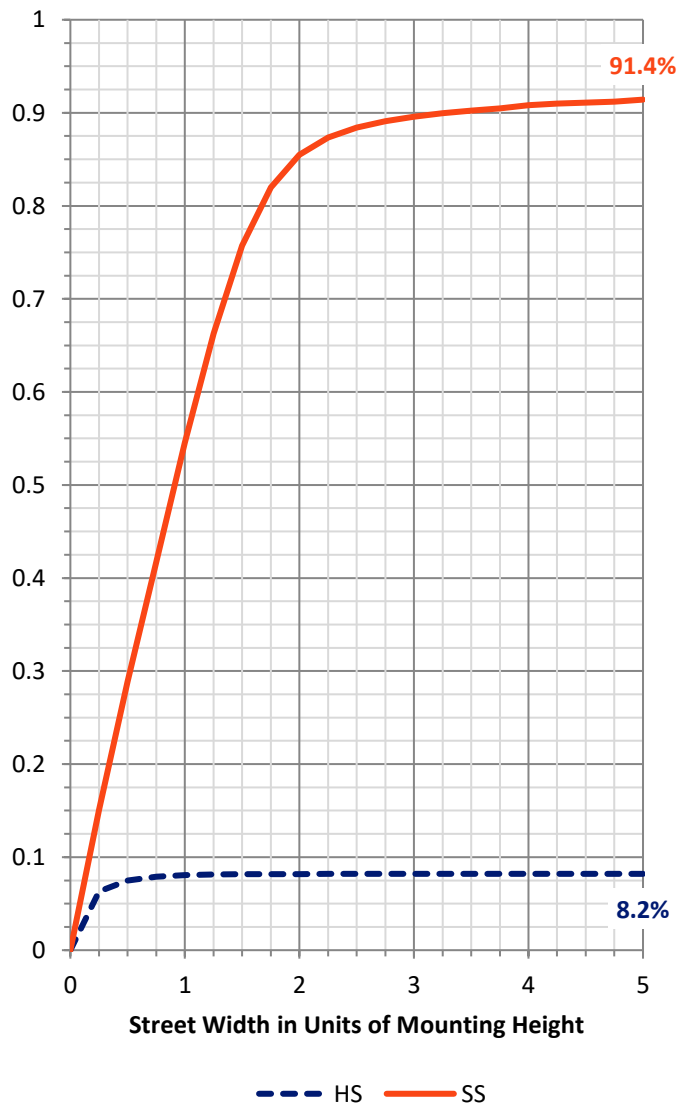
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3502.2	0.0	3502.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	38867.9	0.0	38867.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	42370.0	0.0	42370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	952.5	2.2
10°-20°	1975.6	4.7
20°-30°	2621.2	6.2
30°-40°	3632.1	8.6
40°-50°	5926.6	14.0
50°-60°	10417.0	24.6
60°-70°	11537.6	27.2
70°-80°	4781.2	11.3
80°-90°	526.3	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°	42370.0	100.0
0°-180°	42370.0	100.0

Coefficient of Utilization



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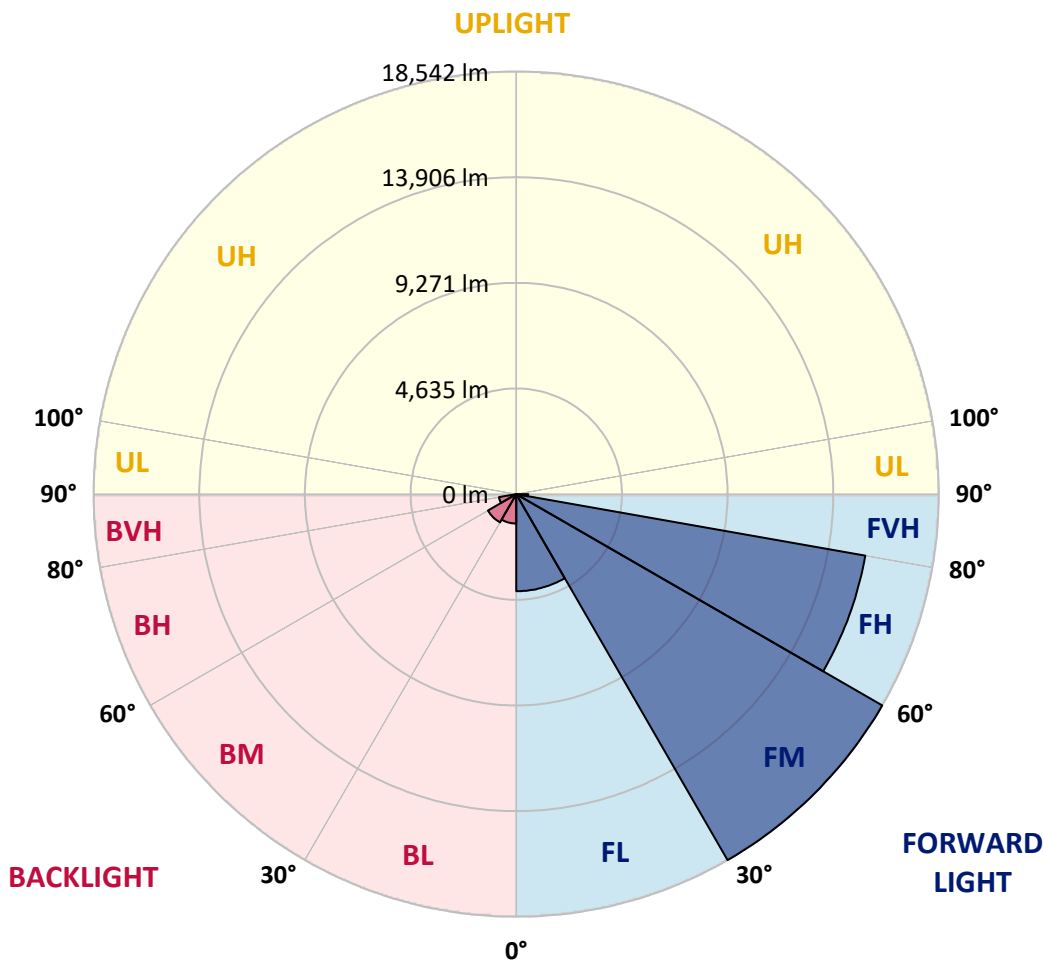
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4259.4	10.1			
FM (30°-60°)	18542.0	43.8			
FH (60°-80°)	15548.9	36.7			G5
FVH (80°-90°)	517.7	1.2			G4/750
BL (0°-30°)	1289.9	3.0	B3/2500		
BM (30°-60°)	1433.7	3.4	B2/2500		
BH (60°-80°)	770.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0
2.5°	13061.5	13106.5	13145.9	13072.8	13134.7	13044.7	12814.0	12763.4	12724.0	12380.9	12184.0
5°	13055.9	13005.3	13044.7	13078.4	12994.0	13061.5	13005.3	13010.9	12859.0	12549.6	11998.4
7.5°	12184.0	12161.5	12184.0	12347.1	12532.8	12679.0	12763.4	12847.8	12746.5	12285.3	11750.9
10°	11008.4	11120.9	11182.7	11475.2	11762.1	12032.1	12296.5	12454.0	12425.9	12240.3	11480.9
12.5°	10187.1	10153.3	10378.4	10569.6	10856.5	11402.1	11863.4	12009.6	12178.4	11919.6	11126.5
15°	9427.7	9337.7	9472.7	9804.6	10294.0	10727.1	11374.0	11593.4	11807.1	11874.6	10935.2
17.5°	8702.1	8747.1	8887.7	9185.8	9647.1	10254.6	10862.1	11177.1	11689.0	11599.0	10648.4
20°	8353.3	8448.9	8499.6	8651.4	8972.1	9579.6	10485.2	10738.4	11284.0	11593.4	10367.1
22.5°	8370.2	8370.2	8252.1	8342.1	8634.6	9107.1	9973.3	10254.6	11120.9	11300.9	10114.0
25°	8550.2	8437.7	8443.3	8336.4	8460.2	8718.9	9512.1	9855.2	10789.0	11329.0	9979.0
27.5°	8685.2	8662.7	8628.9	8600.8	8443.3	8482.7	9208.3	9489.6	10659.6	11295.2	9770.8
30°	9174.6	9073.3	9039.6	8977.7	8769.6	8578.3	8966.4	9320.8	10558.4	11374.0	9652.7
32.5°	9585.2	9602.1	9630.2	9450.2	9270.2	8797.7	9033.9	9315.2	10485.2	11554.0	9770.8
35°	10102.7	10175.8	10187.1	10130.8	9939.6	9472.7	9315.2	9557.1	10609.0	11874.6	9782.1
37.5°	10890.2	10811.5	11025.2	11047.7	10912.7	10294.0	9967.7	10063.3	10974.6	12386.5	10209.6
40°	11402.1	11497.7	11897.1	12144.6	11914.0	11351.5	10912.7	10895.9	11503.4	13190.9	10738.4
42.5°	11970.3	12184.0	12622.8	13157.2	13129.0	12605.9	12161.5	12088.4	12442.8	14355.3	11576.5
45°	12746.5	12937.8	13550.9	14355.3	14794.1	14349.7	13680.3	13534.0	13584.7	15941.6	13005.3
47.5°	14034.7	13984.1	14867.2	15660.3	16380.4	16037.2	15750.3	15322.8	15283.5	17809.1	14979.7
50°	15491.6	15480.3	16267.9	17167.9	18000.4	18669.8	18191.6	17724.8	17736.0	20346.1	17302.9
52.5°	16875.4	17094.7	17944.1	18838.5	20267.3	20987.3	21448.6	21263.0	20368.6	22613.0	19789.2
55°	17606.6	17797.9	18641.7	20182.9	22438.6	24289.3	25538.1	25380.6	23653.6	25166.8	22241.7
57.5°	16914.7	17044.1	18186.0	20205.4	23957.4	28086.2	29284.4	29087.5	27051.2	27118.7	25206.2
60°	14017.8	14220.3	15919.1	18287.3	23366.8	31011.3	34442.6	34144.5	30145.0	29588.1	27113.1
62.5°	9709.0	9844.0	11239.0	14186.6	20565.4	32029.4	39314.0	39477.1	33407.6	31511.9	27681.2
65°	6288.9	6277.6	7076.4	9073.3	14574.7	28946.9	42194.0	43206.6	36557.7	31804.4	27506.8
67°	4443.8	4427.0	4803.9	6153.9	10091.5	23850.5	42143.4	44320.3	38267.7	31888.8	25892.4
67.5°	4100.7	4083.8	4443.8	5658.9	9107.1	22179.9	41513.4	43746.6	38869.6	31770.7	25183.7
70°	3183.8	3138.8	3273.8	3898.2	5304.5	14344.1	35528.3	40185.9	37620.8	28823.1	20109.8
72.5°	2300.7	2351.3	2565.1	3200.7	4162.6	7717.7	27079.3	32496.3	31421.9	21724.2	12780.3
75°	1603.2	1648.2	1991.3	2610.1	3819.5	4680.1	18309.8	23569.3	21887.3	11992.8	5445.1
77.5°	838.1	894.4	1271.3	2086.9	3470.7	3622.6	10940.9	14945.9	11599.0	4269.5	1501.9
80°	388.1	416.3	635.6	1479.4	2902.6	3183.8	6378.9	8313.9	4640.7	956.3	517.5
82.5°	168.8	185.6	292.5	849.4	2058.8	2784.4	3948.8	4359.5	1681.9	309.4	320.6
85°	33.8	39.4	112.5	450.0	995.6	1687.5	2773.2	2587.6	843.8	151.9	253.1
87.5°	0.0	0.0	28.1	129.4	270.0	500.6	1175.7	1175.7	258.8	78.8	95.6
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°	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0	12004.0
2.5°	12009.6	11807.1	11362.7	10952.1	10659.6	10327.7	9889.0	9692.1	9619.0	9517.7	9365.8
5°	11694.6	11447.1	10687.7	9922.7	9084.6	8448.9	7773.9	7380.2	7082.0	6896.4	6834.5
7.5°	11250.2	10744.0	9720.2	8493.9	7408.3	6463.3	5439.5	4747.6	4303.2	4123.2	3954.5
10°	10895.9	10237.7	8679.6	7155.2	5709.5	4325.7	3172.6	2565.1	2103.8	1929.4	1906.9
12.5°	10434.6	9647.1	7706.4	5788.3	3971.3	2576.3	1755.0	1524.4	1395.0	1372.5	1355.7
15°	10052.1	9112.7	6783.9	4483.2	2570.7	1608.8	1366.9	1310.7	1276.9	1265.7	1271.3
17.5°	9793.3	8538.9	5838.9	3262.6	1693.2	1316.3	1260.0	1226.3	1209.4	1203.8	1186.9
20°	9281.5	8055.2	4905.1	2283.8	1321.9	1215.0	1170.0	1141.9	1125.0	1119.4	1113.8
22.5°	8988.9	7442.0	3971.3	1591.9	1175.7	1102.5	1068.8	1046.3	1018.1	1001.3	995.6
25°	8696.4	6992.0	3138.8	1237.5	1068.8	1018.1	967.5	939.4	894.4	871.9	866.3
27.5°	8353.3	6547.6	2418.8	1074.4	961.9	911.3	860.6	815.6	759.4	736.9	725.6
30°	8156.4	6114.5	1822.5	961.9	883.1	815.6	753.8	697.5	635.6	596.3	585.0
32.5°	8055.2	5720.7	1366.9	877.5	798.8	725.6	646.9	579.4	523.1	489.4	483.8
35°	7931.4	5338.2	1074.4	798.8	720.0	641.3	562.5	495.0	438.8	410.6	399.4
37.5°	8060.8	5113.2	894.4	736.9	658.1	568.1	483.8	416.3	371.3	343.1	337.5
40°	8415.2	4927.6	776.3	680.6	596.3	500.6	421.9	354.4	315.0	292.5	281.3
42.5°	8960.8	4927.6	703.1	624.4	540.0	438.8	360.0	309.4	270.0	247.5	241.9
45°	9950.8	5079.5	641.3	568.1	472.5	376.9	309.4	258.8	219.4	196.9	191.3
47.5°	11340.2	5428.2	590.6	517.5	421.9	331.9	270.0	219.4	180.0	157.5	151.9
50°	13207.8	6221.4	540.0	455.6	376.9	286.9	225.0	174.4	140.6	118.1	112.5
52.5°	15536.6	7346.4	489.4	421.9	320.6	241.9	180.0	140.6	106.9	90.0	84.4
55°	18000.4	8724.6	427.5	376.9	275.6	202.5	146.3	106.9	78.8	67.5	61.9
57.5°	20481.1	9787.7	376.9	326.3	225.0	163.1	118.1	84.4	56.3	45.0	39.4
60°	21797.3	9889.0	326.3	270.0	180.0	129.4	90.0	61.9	39.4	28.1	22.5
62.5°	21999.9	8988.9	281.3	219.4	146.3	101.3	61.9	45.0	22.5	11.3	11.3
65°	20959.2	7492.7	241.9	174.4	112.5	73.1	45.0	28.1	11.3	5.6	0.0
67°	19271.7	6277.6	208.1	146.3	90.0	56.3	33.8	16.9	5.6	0.0	0.0
67.5°	18619.2	5940.1	196.9	135.0	84.4	50.6	28.1	16.9	5.6	0.0	0.0
70°	14450.9	4241.3	146.3	95.6	61.9	39.4	22.5	11.3	0.0	0.0	0.0
72.5°	8853.9	2480.7	112.5	67.5	45.0	28.1	16.9	5.6	0.0	0.0	0.0
75°	3712.6	855.0	95.6	50.6	33.8	16.9	11.3	5.6	0.0	0.0	0.0
77.5°	967.5	320.6	67.5	33.8	22.5	16.9	11.3	5.6	0.0	0.0	0.0
80°	393.8	146.3	45.0	22.5	22.5	16.9	11.3	5.6	0.0	0.0	0.0
82.5°	258.8	67.5	28.1	22.5	16.9	11.3	5.6	0.0	0.0	0.0	0.0
85°	196.9	39.4	16.9	16.9	11.3	5.6	0.0	0.0	0.0	0.0	0.0
87.5°	84.4	22.5	16.9	11.3	11.3	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)