

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: P484818

Luminaire Tested: **IFLD-L-SA8C-740-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484818
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-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4
distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

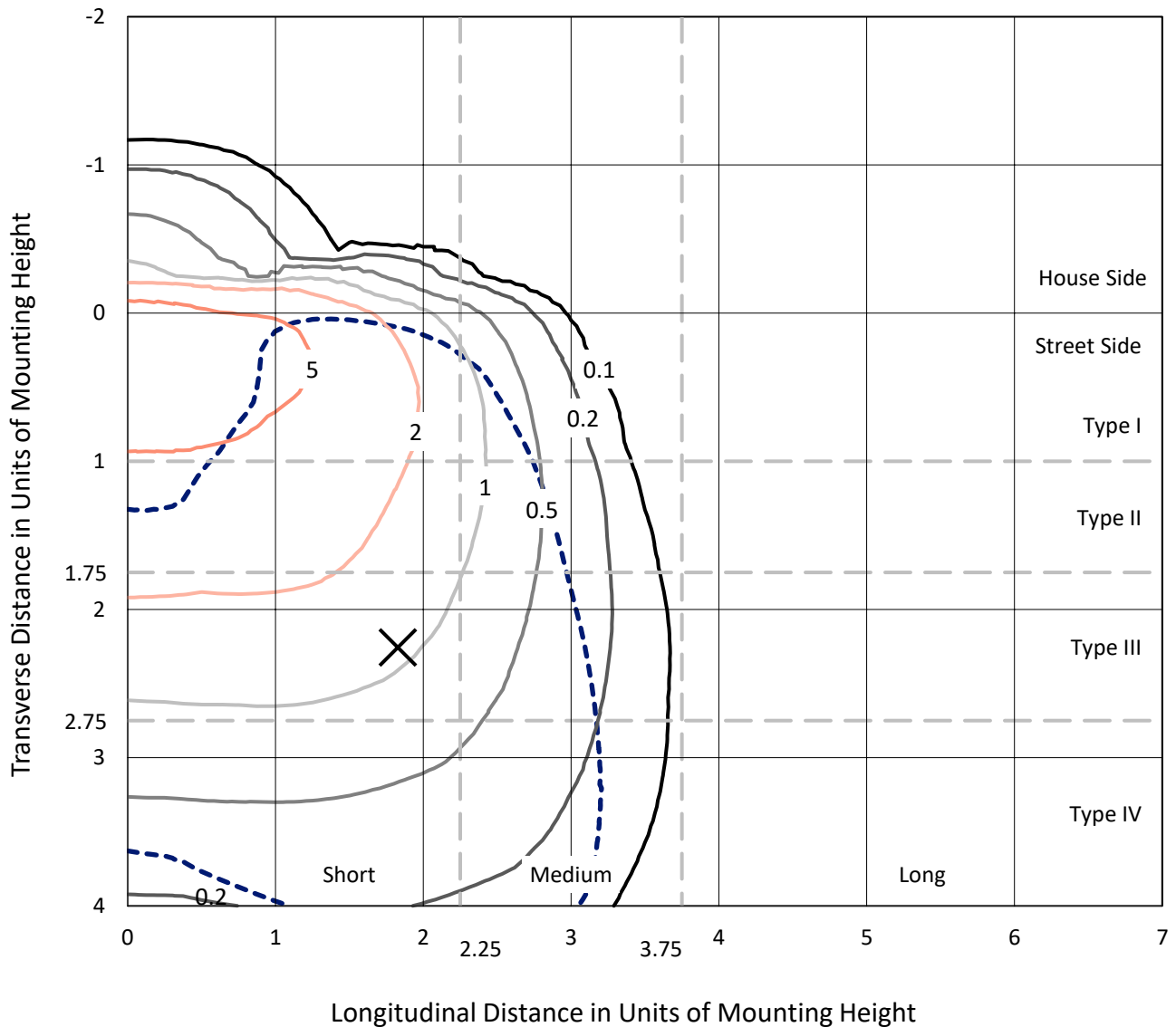
Lumens per Lamp: N/A
Luminaire Lumens: 41854.4 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

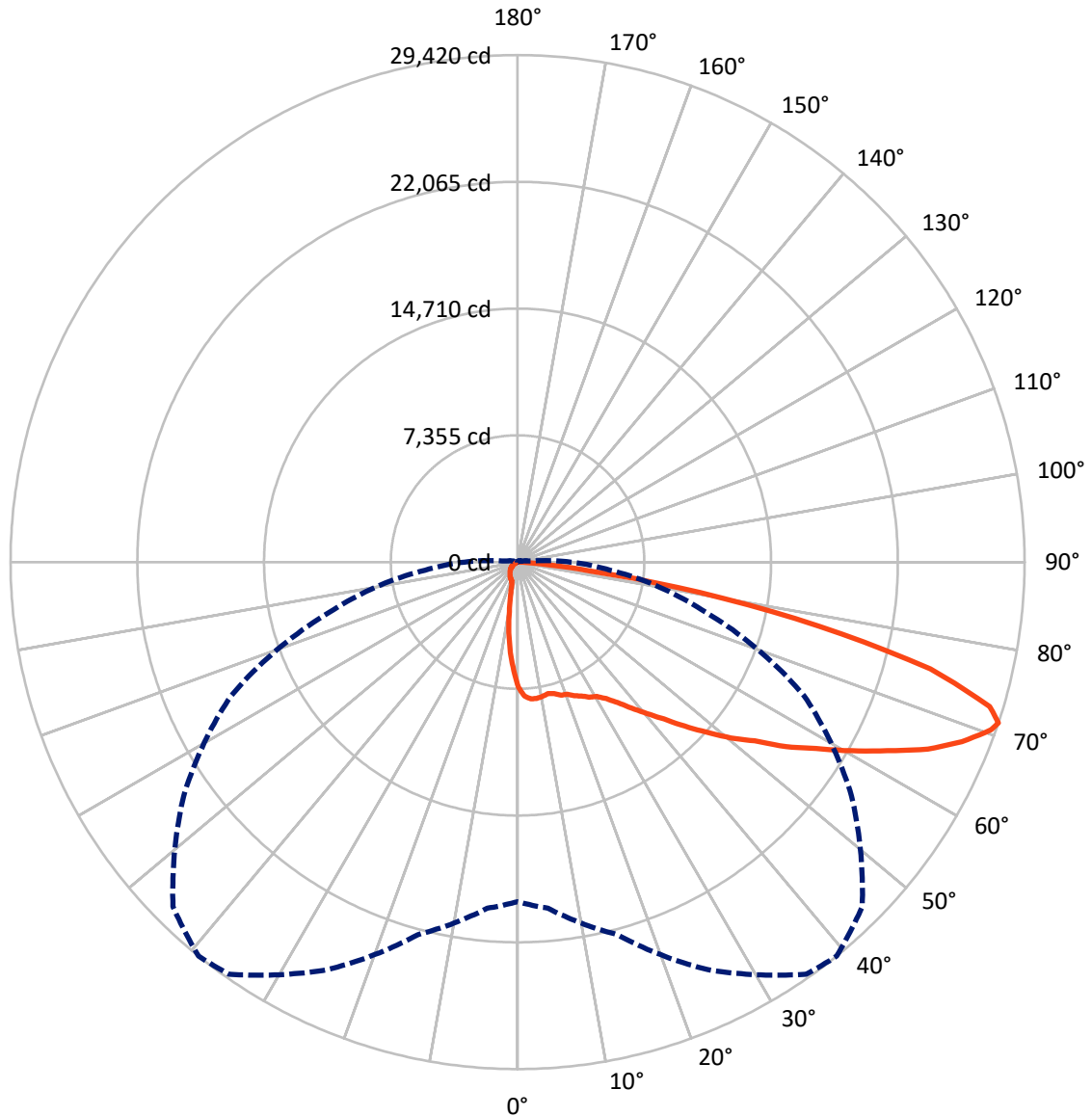
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 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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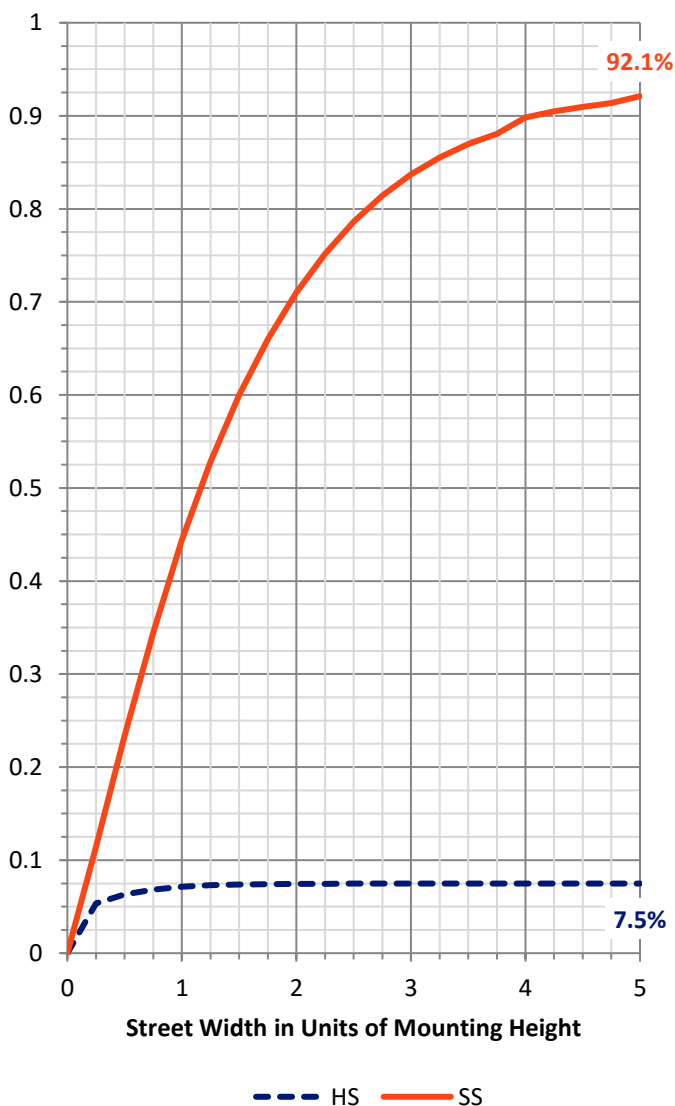
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3151.0	0.0	3151.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	38703.4	0.0	38703.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	41854.4	0.0	41854.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.1	1.5
10°-20°	1499.1	3.6
20°-30°	2406.6	5.8
30°-40°	3684.0	8.8
40°-50°	5913.4	14.1
50°-60°	8685.9	20.8
60°-70°	10939.5	26.1
70°-80°	7300.8	17.4
80°-90°	815.9	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°	41854.4	100.0
0°-180°	41854.4	100.0

Coefficient of Utilization



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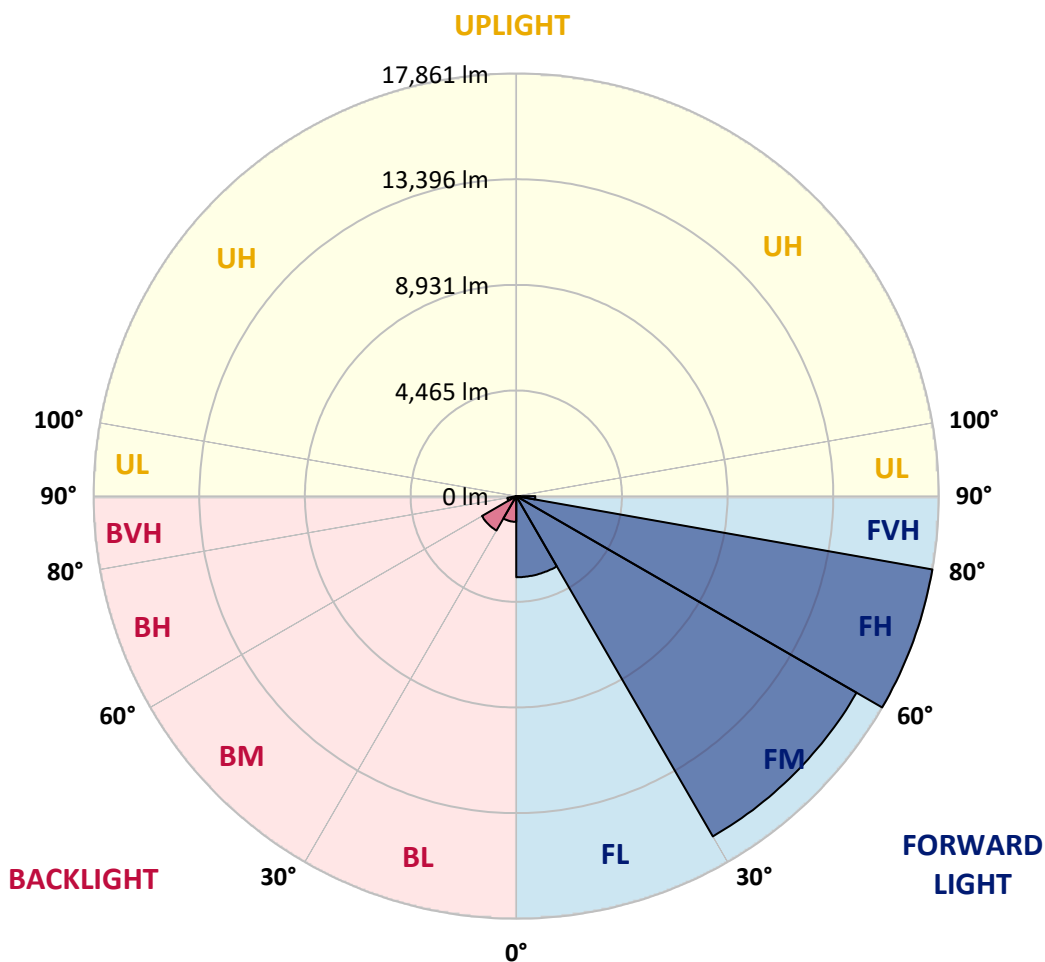
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3427.0	8.2			
FM (30°-60°)	16608.4	39.7			
FH (60°-80°)	17861.1	42.7			G5
FVH (80°-90°)	806.9	1.9			G5
BL (0°-30°)	1087.9	2.6	B3/2500		
BM (30°-60°)	1674.9	4.0	B2/2500		
BH (60°-80°)	379.3	0.9	B1/500		G1/500
BVH (80°-90°)	9.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0
2.5°	7850.5	7927.3	7850.5	7817.5	7784.6	7790.1	7702.3	7718.7	7614.4	7477.2	7367.4
5°	8097.5	8201.8	8119.5	8081.1	8075.6	7971.3	7927.3	7823.0	7696.8	7482.7	7350.9
7.5°	8075.6	8053.6	8092.0	8059.1	7987.7	7987.7	7938.3	7790.1	7663.8	7422.3	7197.2
10°	7910.9	7976.7	7943.8	7905.4	7921.8	7927.3	7834.0	7729.7	7691.3	7449.7	7081.9
12.5°	7894.4	7784.6	7905.4	7910.9	7839.5	7834.0	7823.0	7795.6	7674.8	7455.2	7109.3
15°	7839.5	7795.6	7916.4	7921.8	7938.3	7921.8	7938.3	7916.4	7795.6	7669.3	7230.1
17.5°	7883.4	7834.0	8004.2	8086.5	8048.1	8125.0	8097.5	7998.7	7894.4	7746.2	7345.4
20°	7894.4	7965.8	8152.4	8185.4	8306.1	8179.9	8174.4	8070.1	8004.2	7845.0	7416.8
22.5°	8097.5	8130.5	8361.0	8432.4	8437.9	8421.4	8284.2	8163.4	8136.0	7938.3	7433.3
25°	8405.0	8520.2	8624.5	8668.5	8684.9	8608.1	8465.3	8311.6	8245.7	8119.5	7603.4
27.5°	8948.4	8877.1	8970.4	9036.3	8849.6	8877.1	8695.9	8564.2	8470.8	8361.0	7801.1
30°	9431.6	9365.7	9371.2	9360.2	9201.0	9052.8	9003.3	8772.8	8657.5	8701.4	8108.5
32.5°	9865.3	9722.5	9843.3	9788.4	9491.9	9448.0	9409.6	9118.6	9140.6	9343.7	8569.6
35°	10266.0	10216.6	10315.4	10216.6	10019.0	10008.0	9969.6	9717.0	9837.8	10128.8	9360.2
37.5°	10633.8	10650.3	10771.1	10721.7	10738.1	10749.1	10727.2	10458.2	10804.0	11457.3	10282.5
40°	10974.2	10952.2	11248.7	11402.4	11435.3	11556.1	11556.1	11490.2	12022.8	12758.4	11561.6
42.5°	11336.5	11391.4	11775.7	12033.7	12346.7	12451.0	12593.7	12626.6	13450.1	14290.1	12868.2
45°	11929.4	11836.1	12324.7	12934.1	13208.6	13576.4	13796.0	13982.6	14976.3	16129.2	14174.8
47.5°	12681.5	12494.9	12923.1	13807.0	14443.8	14745.7	15141.0	15388.0	16359.7	17551.0	15410.0
50°	13516.0	13323.9	13532.5	14751.2	15492.3	16041.3	16546.4	16859.3	18034.1	19143.1	16310.3
52.5°	14460.3	14284.6	14317.5	15733.9	16826.4	17227.1	17891.4	18358.0	19527.4	20103.8	16628.7
55°	15464.9	15421.0	15316.7	16694.6	17995.7	18896.0	19296.8	19856.8	21059.0	20625.3	16974.6
57.5°	16475.0	16337.8	16486.0	17968.3	19873.2	20411.2	20965.7	21300.6	21910.0	21081.0	16842.8
60°	17424.8	17435.7	17644.4	19351.7	21470.8	22233.9	22733.4	22530.3	22782.9	21278.6	16540.9
62.5°	18226.3	18204.3	18731.4	20905.3	23584.4	24100.4	24473.7	23567.9	23189.1	21470.8	16013.9
65°	18945.5	19192.5	20021.5	22755.4	25571.7	26164.6	25939.5	24550.6	23584.4	20905.3	14531.6
67.5°	19489.0	19856.8	21295.1	24495.7	27394.3	27811.6	27498.6	25297.2	23117.7	18687.4	11836.1
70°	19807.4	20180.7	22206.4	25945.0	28849.1	29151.1	28415.4	24720.8	20394.8	13532.5	7383.8
71°	19708.5	20164.2	22382.1	26098.7	29195.0	29420.1	28278.2	23655.7	18341.6	11331.0	5385.5
72.5°	18813.7	19241.9	21651.9	25988.9	28777.8	28640.5	27207.7	21097.5	14438.3	7224.6	2783.4
75°	13823.4	14284.6	18583.1	22480.9	25687.0	24742.7	22019.8	14806.1	7532.1	2212.4	812.5
77.5°	6884.3	6961.1	11534.2	16321.3	18841.1	17902.4	14756.7	8256.7	2816.3	653.3	406.2
80°	3173.1	3195.1	4326.0	8454.4	11391.4	10721.7	8267.7	4073.5	1273.6	345.9	318.4
82.5°	2163.0	2195.9	2607.7	3502.5	4946.4	4172.3	3348.8	2607.7	730.1	208.6	312.9
85°	395.3	362.3	1460.3	1855.6	1910.5	1295.6	1158.4	2256.3	274.5	120.8	274.5
87.5°	0.0	5.5	203.1	757.6	680.7	301.9	395.3	549.0	27.4	38.4	49.4
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°	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0	7285.0
2.5°	7274.0	7213.7	7010.5	6785.4	6582.3	6423.1	6220.0	6126.7	5978.4	5896.1	5890.6
5°	7169.7	7005.0	6653.7	6274.9	5852.2	5500.8	5111.0	4891.5	4638.9	4562.1	4545.6
7.5°	6994.1	6758.0	6242.0	5709.4	5061.6	4441.3	3963.7	3453.1	3140.2	3008.4	2959.0
10°	6884.3	6598.8	5896.1	5100.1	4194.2	3321.4	2651.6	2108.1	1822.6	1685.4	1652.4
12.5°	6884.3	6576.8	5616.1	4518.1	3315.9	2272.8	1641.5	1328.5	1235.2	1202.3	1202.3
15°	6867.8	6532.9	5347.1	3919.7	2454.0	1526.2	1224.2	1158.4	1147.4	1141.9	1136.4
17.5°	6950.1	6456.1	5072.6	3277.4	1734.8	1202.3	1125.4	1114.4	1103.5	1103.5	1092.5
20°	7010.5	6412.1	4743.2	2596.7	1295.6	1114.4	1081.5	1065.0	1059.5	1054.1	1065.0
22.5°	6961.1	6346.3	4337.0	1943.4	1130.9	1059.5	1037.6	1021.1	1010.1	1010.1	1015.6
25°	7054.5	6285.9	3930.7	1465.8	1059.5	1010.1	988.2	977.2	971.7	966.2	955.2
27.5°	7180.7	6313.3	3447.6	1180.3	999.2	960.7	938.8	927.8	922.3	911.3	922.3
30°	7334.4	6307.8	2915.1	1032.1	944.3	905.8	883.9	878.4	867.4	861.9	867.4
32.5°	7597.9	6450.6	2366.1	955.2	883.9	850.9	829.0	823.5	818.0	812.5	807.0
35°	8163.4	6626.2	1850.1	894.8	829.0	790.5	774.1	763.1	757.6	752.1	746.6
37.5°	8860.6	7016.0	1410.9	839.9	774.1	735.6	719.2	713.7	691.7	686.2	680.7
40°	9733.5	7433.3	1087.0	779.6	724.7	686.2	669.8	653.3	625.8	614.9	603.9
42.5°	10820.5	7839.5	894.8	724.7	669.8	642.3	614.9	587.4	565.5	543.5	532.5
45°	11907.5	8311.6	785.0	675.3	625.8	592.9	570.9	532.5	494.1	461.1	455.7
47.5°	12813.3	8481.8	719.2	620.4	581.9	554.5	521.5	472.1	417.2	384.3	378.8
50°	13488.5	8383.0	653.3	565.5	532.5	505.1	461.1	400.8	345.9	312.9	301.9
52.5°	13620.3	7949.3	592.9	521.5	483.1	450.2	400.8	334.9	274.5	241.6	236.1
55°	13527.0	7230.1	543.5	483.1	439.2	389.8	334.9	269.0	214.1	181.2	175.7
57.5°	13334.8	6379.2	488.6	433.7	384.3	334.9	274.5	219.6	159.2	126.3	126.3
60°	12681.5	5220.8	433.7	378.8	329.4	285.5	225.1	159.2	109.8	82.3	76.9
62.5°	11770.2	4013.1	378.8	323.9	285.5	236.1	175.7	115.3	65.9	43.9	43.9
65°	10106.8	2810.8	318.4	269.0	236.1	192.1	131.8	71.4	38.4	16.5	16.5
67.5°	7680.3	1740.3	263.5	225.1	203.1	153.7	93.3	43.9	16.5	5.5	0.0
70°	4408.3	905.8	208.6	181.2	159.2	115.3	65.9	22.0	11.0	0.0	0.0
71°	3079.8	669.8	186.7	159.2	142.7	104.3	54.9	16.5	5.5	0.0	0.0
72.5°	1542.6	444.7	159.2	131.8	115.3	82.3	43.9	16.5	5.5	0.0	0.0
75°	549.0	285.5	109.8	87.8	82.3	60.4	27.4	11.0	5.5	0.0	0.0
77.5°	378.8	230.6	76.9	54.9	54.9	38.4	16.5	5.5	5.5	0.0	0.0
80°	345.9	126.3	49.4	32.9	27.4	22.0	11.0	5.5	0.0	0.0	0.0
82.5°	345.9	93.3	27.4	22.0	16.5	11.0	5.5	0.0	0.0	0.0	0.0
85°	241.6	49.4	16.5	16.5	11.0	5.5	0.0	0.0	0.0	0.0	0.0
87.5°	38.4	16.5	11.0	5.5	5.5	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)