

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: P479969

Luminaire Tested: **IFLD-S-SA6E-722-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479969
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

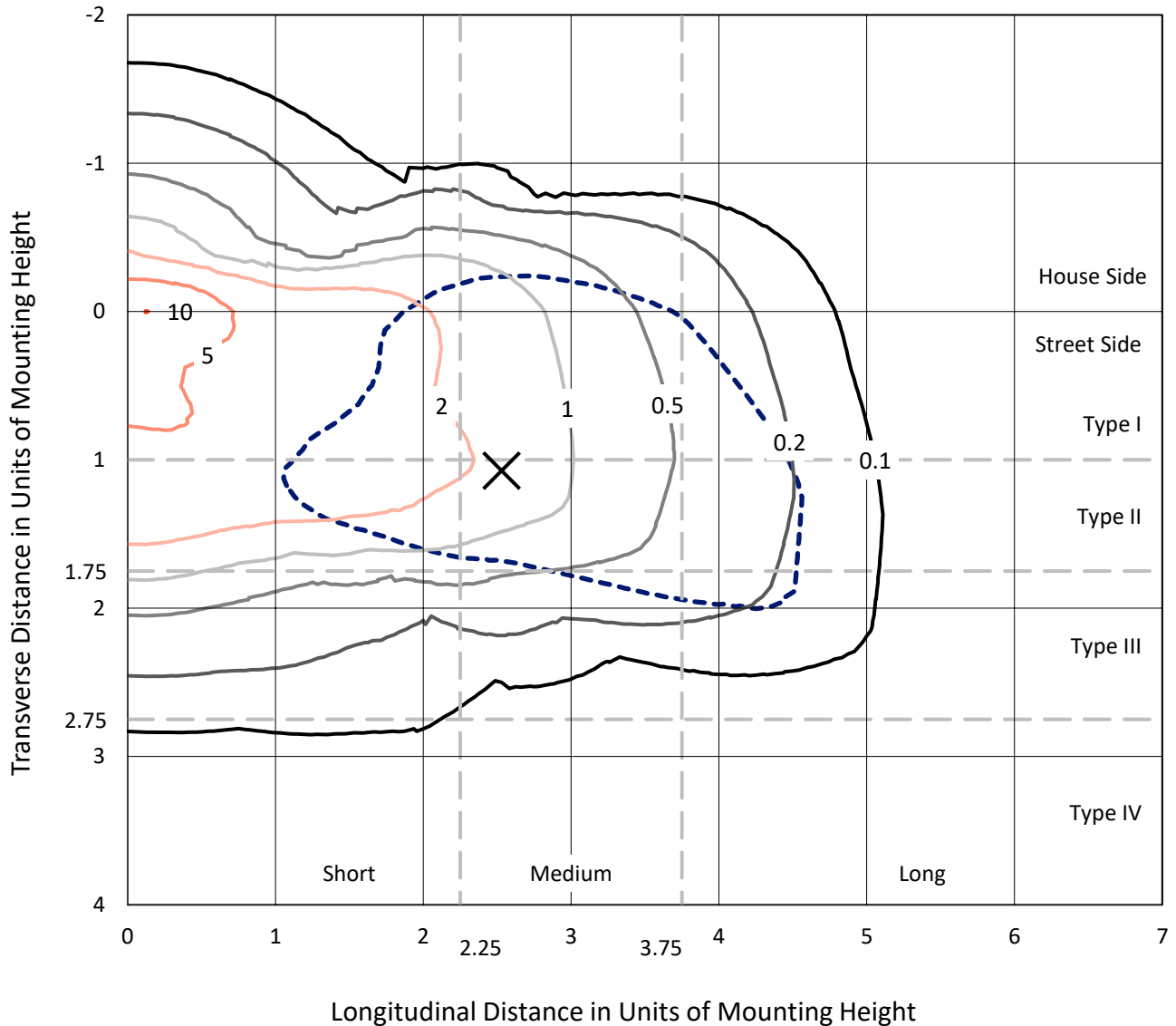
Lumens per Lamp: N/A
Luminaire Lumens: 38861 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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

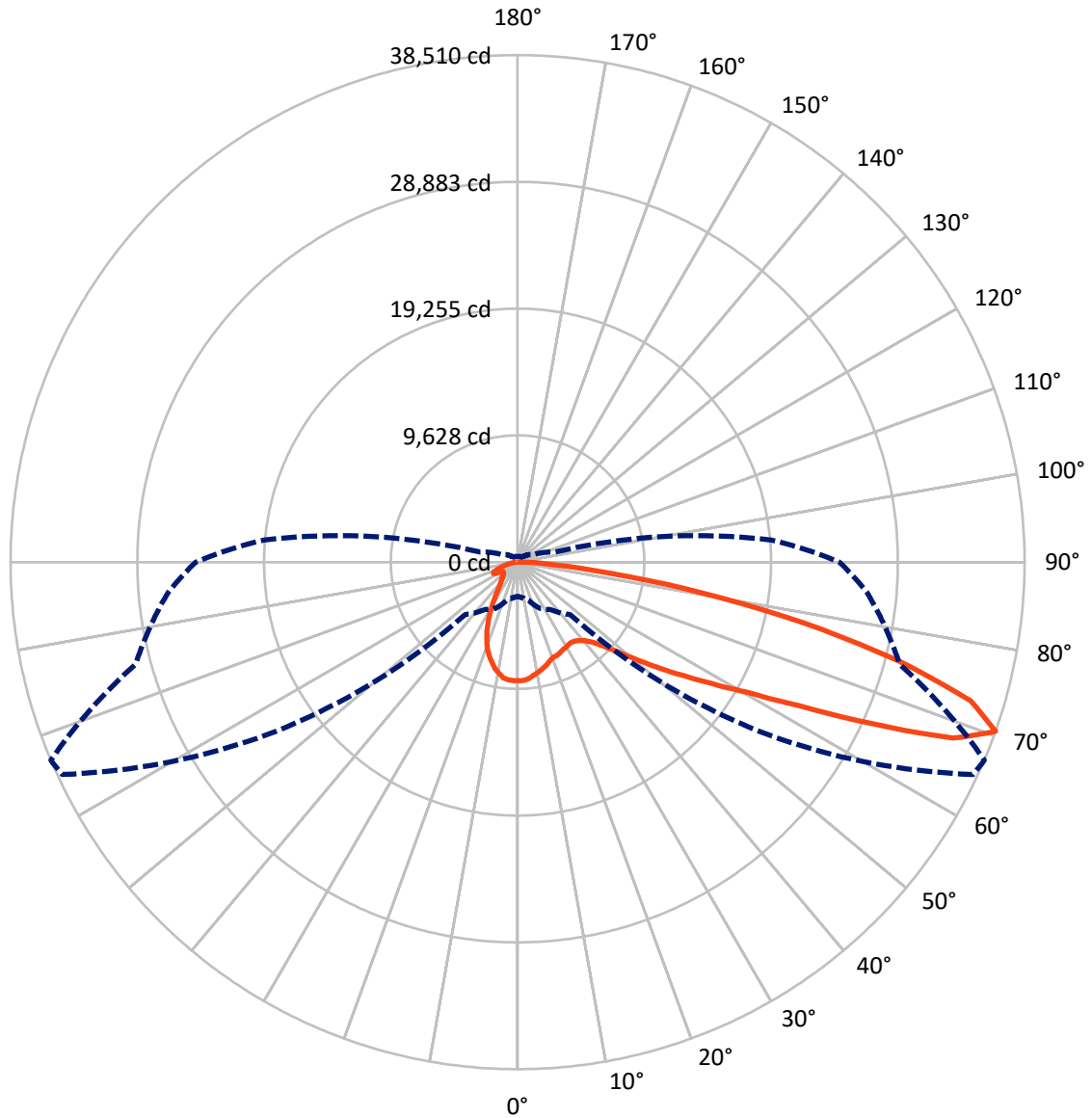
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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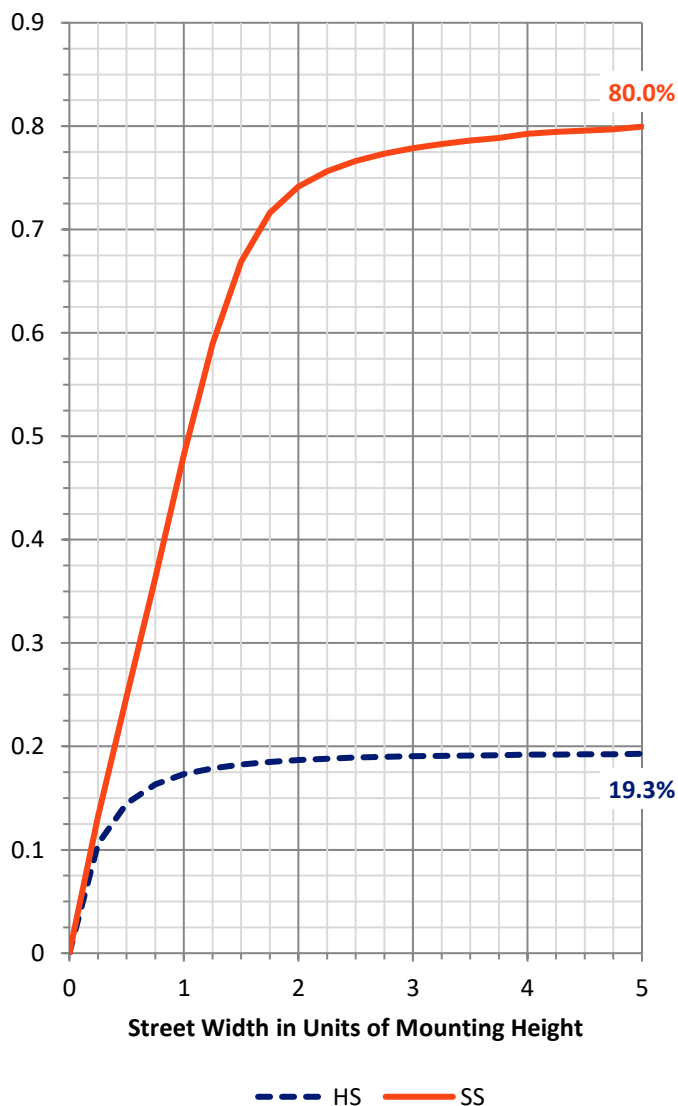
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7568.6	0.0	7568.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	31292.5	0.0	31292.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	38861.0	0.0	38861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.9	2.0
10°-20°	1879.9	4.8
20°-30°	2538.7	6.5
30°-40°	3397.0	8.7
40°-50°	4995.2	12.9
50°-60°	7786.2	20.0
60°-70°	9591.3	24.7
70°-80°	6777.1	17.4
80°-90°	1110.8	2.9
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°	38861.0	100.0
0°-180°	38861.0	100.0

Coefficient of Utilization

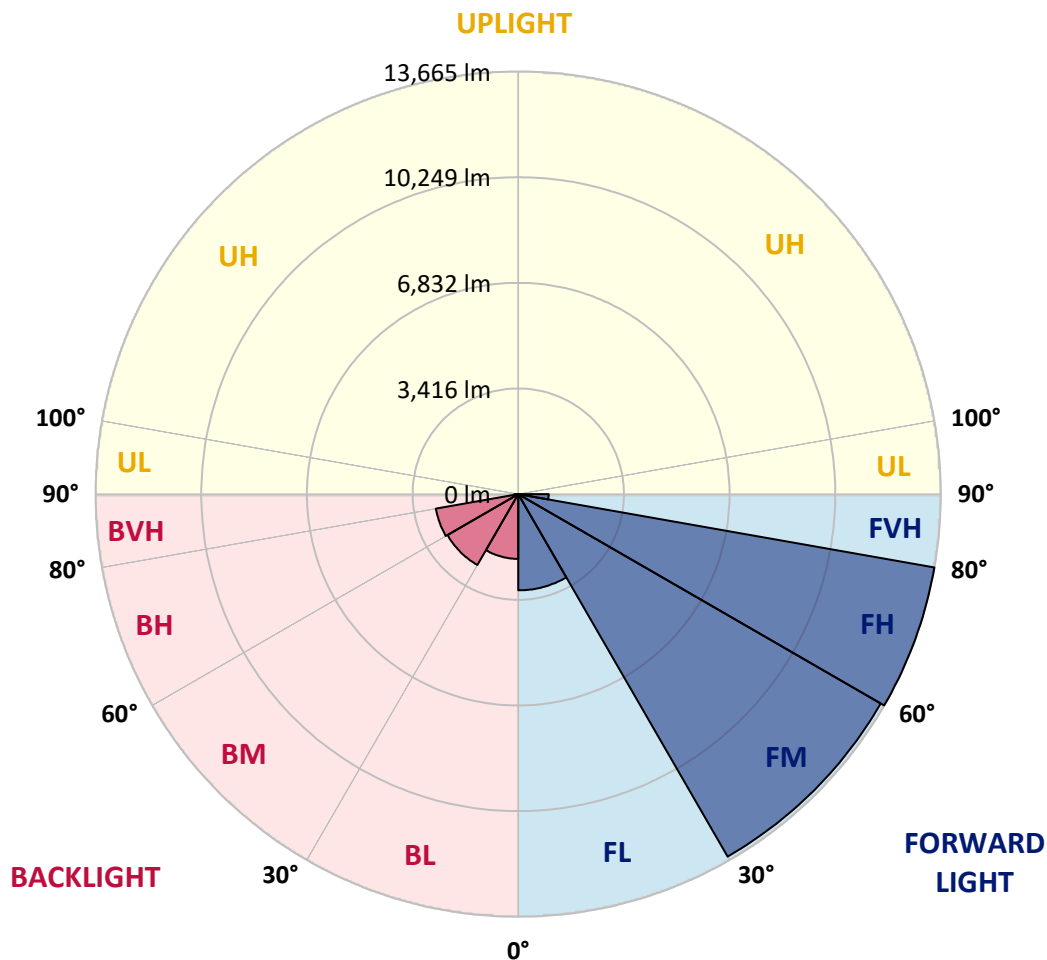


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3110.5	8.0			
FM (30°-60°)	13534.5	34.8			
FH (60°-80°)	13664.8	35.2			G5
FVH (80°-90°)	982.7	2.5			G5
BL (0°-30°)	2093.0	5.4	B3/2500		
BM (30°-60°)	2643.9	6.8	B3/5000		
BH (60°-80°)	2703.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	128.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2
2.5°	8376.7	8471.3	8505.7	8557.4	8690.7	8789.7	8849.9	8918.8	9000.5	9069.3	9112.4
5°	7791.5	7843.2	7924.9	7980.9	8148.6	8415.4	8596.1	8888.6	8880.0	8987.6	9151.1
7.5°	7223.6	7275.3	7314.0	7425.8	7666.8	7907.7	8239.0	8712.2	8677.8	8927.4	9181.2
10°	6870.8	6832.1	6845.0	7034.3	7223.6	7494.7	7912.0	8393.9	8518.6	8905.9	9267.3
12.5°	6539.6	6496.5	6599.8	6720.3	6952.6	7197.8	7696.9	8131.4	8320.7	8828.4	9306.0
15°	6333.1	6302.9	6432.0	6483.6	6759.0	7051.5	7404.3	7933.5	8140.0	8733.8	9245.7
17.5°	6216.9	6242.7	6290.0	6401.9	6578.3	6827.8	7215.0	7800.2	7890.5	8617.6	9232.8
20°	6238.4	6268.5	6272.8	6320.1	6440.6	6634.2	7030.0	7658.2	7718.4	8596.1	9267.3
22.5°	6410.5	6367.5	6384.7	6354.6	6389.0	6539.6	6888.1	7468.9	7701.2	8415.4	9194.1
25°	6668.6	6608.4	6599.8	6496.5	6432.0	6475.0	6862.2	7421.5	7572.1	8359.5	9189.8
27.5°	7124.7	7034.3	7034.3	6879.5	6617.0	6548.2	6789.1	7344.1	7477.5	8307.8	9090.9
30°	7563.5	7563.5	7567.8	7348.4	7055.8	6716.0	6819.2	7314.0	7400.0	8152.9	8957.5
32.5°	8097.0	8084.1	8062.6	7955.0	7503.3	6995.6	6965.5	7275.3	7318.3	8101.3	8918.8
35°	8617.6	8583.2	8751.0	8656.3	8196.0	7542.0	7116.1	7292.5	7387.1	8023.9	8798.3
37.5°	9009.1	9030.6	9379.1	9439.3	9043.5	8161.5	7542.0	7464.6	7554.9	8135.7	8798.3
40°	9516.8	9602.8	9929.8	10132.0	9891.1	8979.0	8217.5	7752.8	7817.4	8385.3	8987.6
42.5°	10183.7	10256.8	10674.1	10936.6	10867.7	10020.2	8884.3	8355.2	8303.5	8802.6	9271.6
45°	11065.6	11078.5	11500.2	11861.6	12003.5	11108.7	9942.7	9116.7	9073.6	9521.1	9792.1
47.5°	12115.4	12102.5	12364.9	12752.2	13135.1	12408.0	11160.3	10274.0	10119.1	10549.4	10656.9
50°	13130.8	13074.8	13135.1	13629.8	14365.5	14034.3	12640.3	11689.5	11534.6	11771.2	11956.2
52.5°	13690.1	13758.9	13595.4	14249.4	15673.4	15957.4	14602.2	13380.3	13246.9	13363.1	13685.8
55°	13298.5	13440.5	13333.0	13952.5	16245.7	18302.2	17140.5	15337.9	15165.8	15122.7	15651.9
57.5°	11633.5	11891.7	11913.2	12894.1	16047.7	20117.8	20711.5	17648.2	17390.1	16951.2	17497.6
60°	8931.7	9189.8	9387.7	10549.4	14352.6	21202.0	24850.3	20935.2	20083.3	18947.5	19274.5
62.5°	6259.9	6436.3	6634.2	7348.4	11065.6	20565.2	28429.9	25564.5	23994.2	21051.4	21460.1
65°	4560.5	4698.2	4900.4	5322.0	6797.7	17015.8	30090.6	31062.9	29574.3	23727.4	23675.8
67.5°	3433.3	3519.3	3786.1	4461.5	4711.1	10510.6	28369.7	36871.1	35666.4	26700.4	25457.0
70°	2598.6	2671.8	2921.3	3846.3	4401.3	5636.1	22380.8	38166.1	38510.3	30034.7	26653.0
72.5°	1789.8	1871.5	2151.2	3205.2	4190.5	4470.1	14047.2	34672.6	35976.2	31407.1	25370.9
75°	1097.1	1153.0	1316.5	2430.8	4160.4	4371.2	7731.3	28412.7	29793.7	29019.3	22195.8
77.5°	774.4	770.1	800.2	1424.1	3605.4	4397.0	4767.0	20819.0	22161.4	21387.0	15062.5
80°	563.6	567.9	598.0	851.9	2448.0	4470.1	3755.9	13943.9	14344.0	11151.7	5941.5
82.5°	339.9	357.1	430.2	576.5	1471.4	4035.6	3472.0	7748.5	7249.5	3579.6	1634.9
85°	180.7	180.7	253.8	365.7	783.0	3011.6	3342.9	3687.1	3089.1	1110.0	606.6
87.5°	43.0	43.0	73.1	146.3	314.1	1441.3	2280.2	1467.1	1174.5	374.3	249.5
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°	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2	8996.2
2.5°	9095.2	9043.5	9108.1	8979.0	8875.7	8880.0	8720.9	8712.2	8690.7	8578.9	8617.6
5°	9198.4	9155.4	9082.3	8940.3	8712.2	8484.2	8346.5	8170.2	8097.0	8058.3	8075.5
7.5°	9297.4	9219.9	9009.1	8811.2	8458.4	8028.2	7778.6	7542.0	7240.8	7206.4	7146.2
10°	9323.2	9159.7	8888.6	8467.0	7998.1	7520.5	6952.6	6513.8	6281.4	6100.7	6031.9
12.5°	9284.5	9215.6	8695.0	8152.9	7443.1	6694.4	6031.9	5412.4	4982.1	4758.4	4698.2
15°	9280.2	9159.7	8479.9	7675.4	6767.6	5791.0	4848.7	4104.4	3652.7	3467.7	3467.7
17.5°	9284.5	8996.2	8226.1	7193.5	5971.7	4650.8	3614.0	3003.0	2753.5	2727.7	2749.2
20°	9198.4	8875.7	7959.3	6625.6	4973.5	3493.5	2624.4	2374.9	2374.9	2409.3	2422.2
22.5°	9121.0	8695.0	7537.7	5924.3	3958.2	2529.8	2134.0	2060.8	2142.6	2202.8	2228.6
25°	9013.4	8544.5	7107.5	5197.2	3011.6	2039.3	1854.3	1871.5	1949.0	2056.5	2047.9
27.5°	8858.5	8282.0	6595.5	4354.0	2241.5	1759.7	1712.3	1720.9	1802.7	1850.0	1841.4
30°	8682.1	8015.3	6122.2	3515.0	1776.9	1613.4	1609.1	1630.6	1643.5	1669.3	1665.0
32.5°	8458.4	7662.5	5618.9	2732.0	1600.5	1531.6	1514.4	1501.5	1514.4	1510.1	1497.2
35°	8299.2	7473.2	5106.9	2082.3	1501.5	1458.5	1445.6	1424.1	1406.9	1381.1	1376.8
37.5°	8256.2	7283.9	4569.1	1699.4	1424.1	1402.6	1359.5	1320.8	1299.3	1286.4	1277.8
40°	8230.4	7159.1	4044.2	1492.9	1359.5	1338.0	1286.4	1234.8	1213.3	1200.4	1204.7
42.5°	8320.7	7090.3	3510.7	1389.7	1303.6	1264.9	1209.0	1148.7	1144.4	1135.8	1148.7
45°	8639.1	7176.3	3015.9	1316.5	1247.7	1183.1	1110.0	1079.9	1075.6	1067.0	1075.6
47.5°	9361.9	7391.4	2594.3	1269.2	1187.4	1131.5	1054.1	1011.1	1006.7	1002.4	1002.4
50°	10360.0	8054.0	2241.5	1213.3	1148.7	1071.3	998.1	950.8	942.2	925.0	925.0
52.5°	11926.1	9168.3	2030.7	1183.1	1079.9	1015.4	937.9	886.3	864.8	847.6	847.6
55°	13690.1	10549.4	1992.0	1131.5	1006.7	946.5	877.7	826.1	804.5	783.0	774.4
57.5°	15699.3	12377.8	2267.3	1097.1	955.1	877.7	800.2	752.9	735.7	714.2	705.6
60°	17570.8	14202.0	3123.5	1045.5	907.8	813.1	735.7	688.4	666.9	645.4	645.4
62.5°	19734.9	16460.8	4573.4	1045.5	864.8	744.3	666.9	632.4	619.5	598.0	593.7
65°	22294.8	18796.9	5631.8	1110.0	851.9	684.1	602.3	567.9	555.0	542.1	537.8
67.5°	24243.7	20139.3	4844.4	1282.1	907.8	632.4	537.8	516.3	507.7	494.8	486.2
70°	24450.2	19321.8	2921.3	1385.4	963.7	580.8	481.9	460.4	460.4	447.4	438.8
72.5°	22595.9	17144.8	1966.2	1234.8	873.4	520.6	425.9	408.7	400.1	391.5	387.2
75°	18908.8	14541.9	1553.1	985.2	671.2	430.2	370.0	352.8	339.9	335.6	327.0
77.5°	12700.5	9452.3	1148.7	770.1	494.8	348.5	309.8	292.6	279.7	275.4	262.4
80°	4878.9	3601.1	740.0	559.3	348.5	275.4	245.2	228.0	219.4	206.5	197.9
82.5°	1437.0	1165.9	413.0	344.2	223.7	189.3	176.4	163.5	150.6	137.7	133.4
85°	593.7	533.5	253.8	180.7	137.7	111.9	103.3	90.3	77.4	68.8	60.2
87.5°	275.4	228.0	116.2	68.8	47.3	25.8	12.9	4.3	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)