

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: P480635

Luminaire Tested: **IFLD-M-SA4C-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480635
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

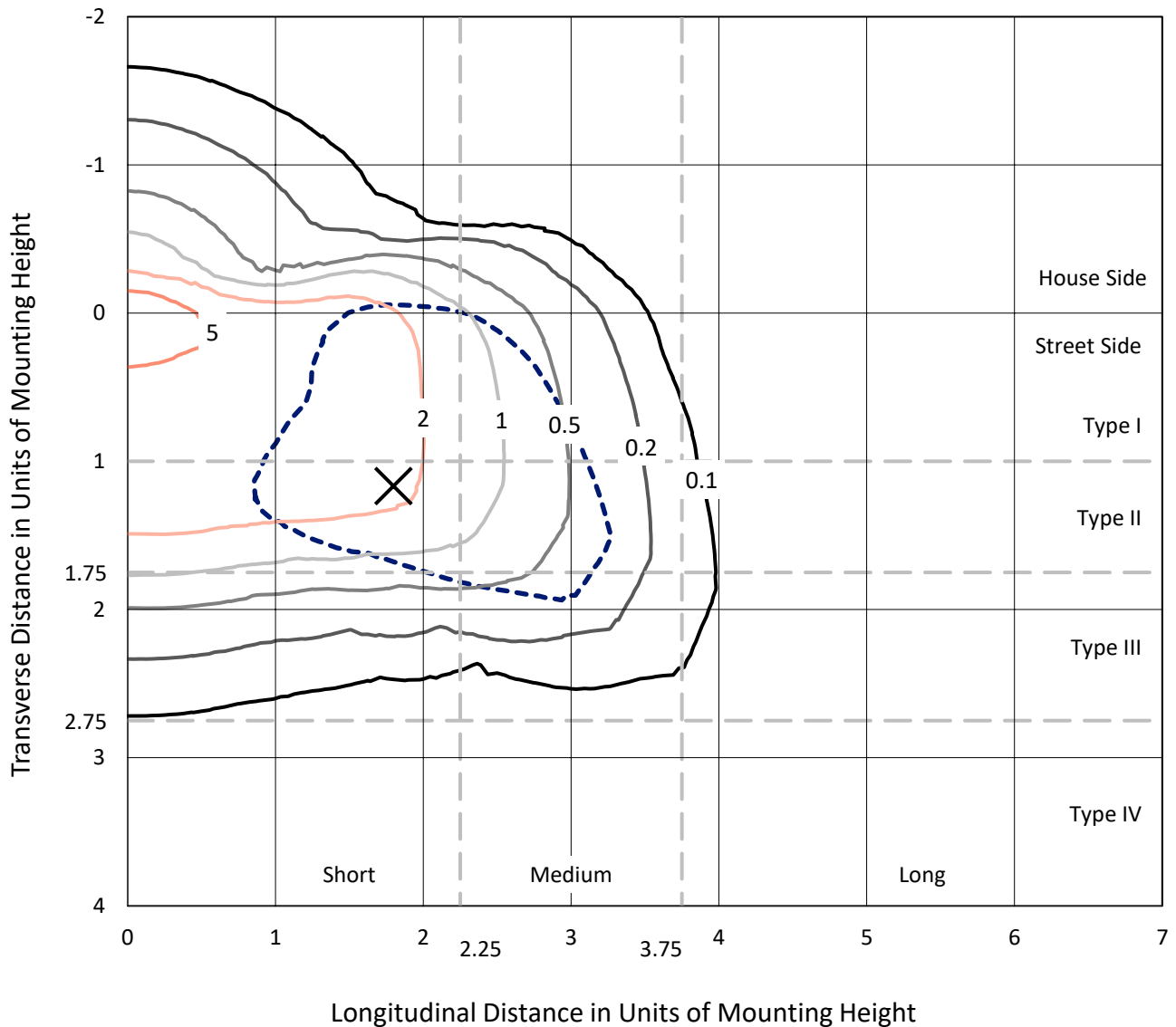
Lumens per Lamp: N/A
Luminaire Lumens: 20622.7 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

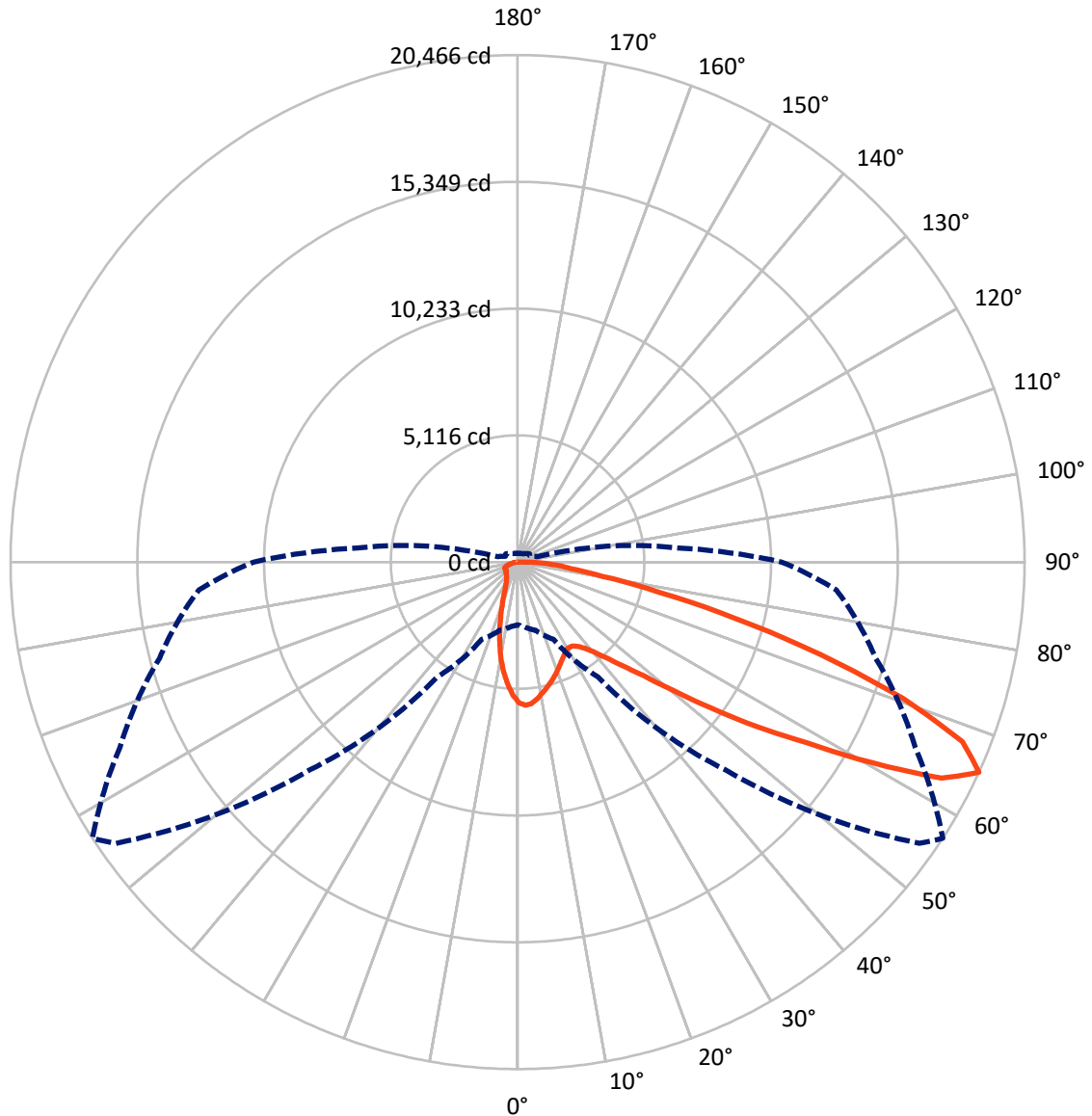
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3162.7	0.0	3162.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17460.0	0.0	17460.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	20622.7	0.0	20622.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.9	2.3
10°-20°	1022.1	5.0
20°-30°	1321.4	6.4
30°-40°	1778.2	8.6
40°-50°	2835.4	13.7
50°-60°	5008.1	24.3
60°-70°	5509.5	26.7
70°-80°	2304.7	11.2
80°-90°	368.3	1.8
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°	20622.7	100.0
0°-180°	20622.7	100.0

Coefficient of Utilization



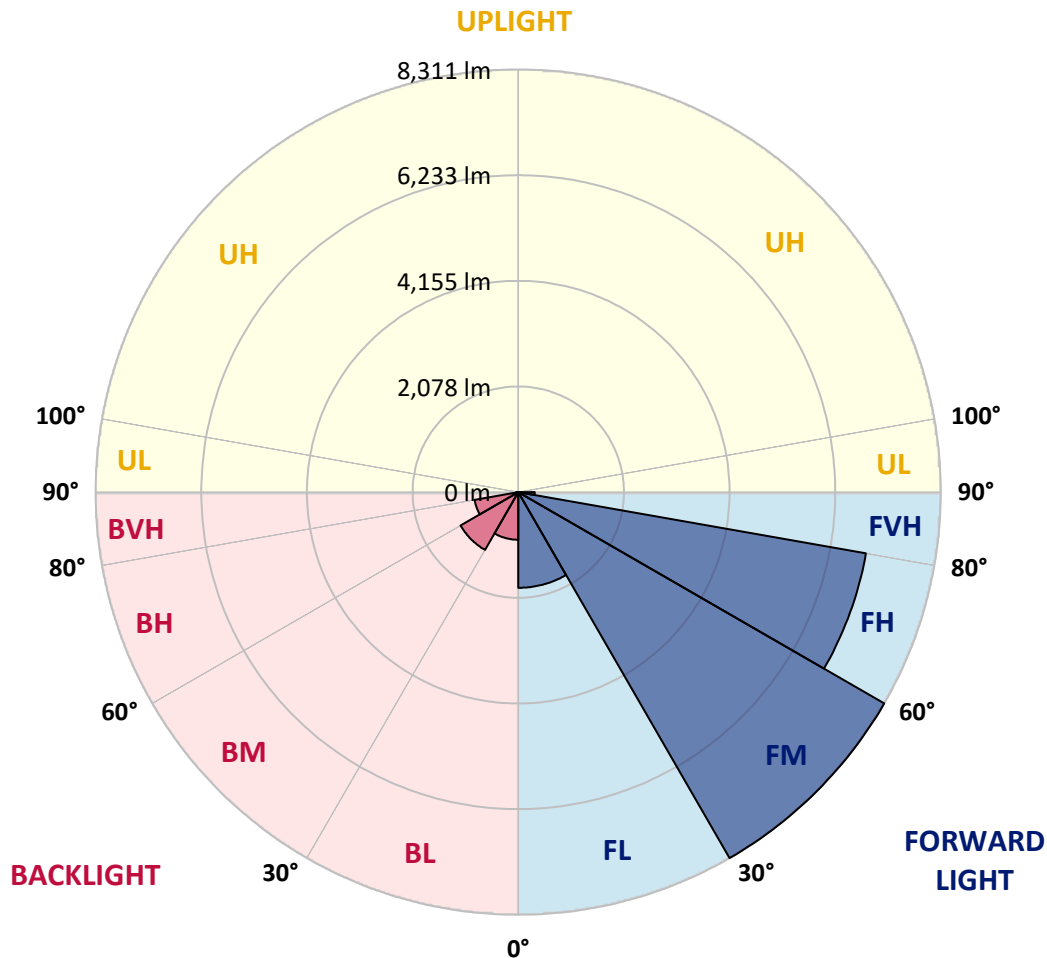
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1881.7	9.1			
FM (30°-60°)	8310.9	40.3			
FH (60°-80°)	6942.2	33.7			G3/7500
FVH (80°-90°)	325.1	1.6			G3/500
BL (0°-30°)	936.6	4.5	B2/1000		
BM (30°-60°)	1310.8	6.4	B2/2500		
BH (60°-80°)	872.1	4.2	B2/1000		G2/1000
BVH (80°-90°)	43.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9
2.5°	5824.1	5833.4	5833.4	5851.9	5789.3	5819.5	5814.8	5787.0	5796.2	5747.5	5698.8
5°	5659.3	5652.4	5689.5	5694.2	5742.9	5756.8	5768.4	5749.8	5754.5	5647.7	5601.3
7.5°	5237.0	5234.7	5297.4	5350.7	5452.8	5548.0	5610.6	5592.1	5617.6	5550.3	5441.2
10°	4735.8	4789.2	4854.2	4907.6	5095.5	5216.2	5378.6	5394.8	5492.3	5476.0	5278.8
12.5°	4359.9	4383.2	4431.9	4585.0	4756.7	4956.3	5188.3	5209.2	5304.3	5350.7	5179.0
15°	4051.3	4072.2	4134.9	4248.6	4441.2	4677.8	4972.5	5025.9	5216.2	5232.4	5049.1
17.5°	3826.3	3842.5	3884.3	3998.0	4155.8	4459.7	4738.2	4833.3	5083.9	5162.8	4914.5
20°	3738.1	3703.3	3726.5	3798.4	3956.2	4190.6	4550.2	4633.8	4954.0	5109.4	4786.9
22.5°	3698.6	3668.5	3682.4	3677.8	3803.1	3970.1	4348.3	4436.5	4831.0	5046.8	4673.2
25°	3728.8	3728.8	3714.9	3703.3	3717.2	3826.3	4130.2	4267.1	4666.2	4993.4	4557.2
27.5°	3891.2	3828.6	3835.5	3786.8	3772.9	3772.9	4032.8	4114.0	4612.9	4963.2	4462.0
30°	3995.7	4025.8	4028.1	3956.2	3884.3	3754.3	3942.3	4021.2	4568.8	5000.4	4406.4
32.5°	4262.5	4248.6	4209.1	4195.2	4088.5	3942.3	3986.4	4039.7	4543.3	5083.9	4422.6
35°	4529.3	4522.4	4524.7	4517.7	4406.4	4190.6	4104.7	4176.6	4589.7	5230.1	4478.3
37.5°	4805.5	4824.0	4902.9	4902.9	4784.6	4550.2	4436.5	4415.6	4759.0	5469.1	4610.5
40°	5081.6	5128.0	5227.8	5385.5	5218.5	5000.4	4817.1	4784.6	4963.2	5789.3	4928.4
42.5°	5346.1	5422.7	5619.9	5854.3	5798.6	5580.5	5336.8	5299.7	5383.2	6265.0	5371.6
45°	5684.9	5749.8	6060.8	6420.4	6497.0	6304.4	6019.0	5988.8	5984.2	6961.1	5981.9
47.5°	6200.0	6269.6	6580.5	6942.5	7179.2	7209.3	6889.1	6856.7	6745.3	7900.8	6875.2
50°	6845.0	6958.7	7220.9	7643.3	7986.7	8309.2	8218.7	8123.6	7905.5	8993.7	8007.5
52.5°	7316.1	7455.3	7810.3	8351.0	8956.6	9469.4	9794.2	9794.2	9293.0	10193.3	9369.6
55°	7441.4	7524.9	7972.7	8754.7	9791.9	11089.0	11768.8	11717.8	10945.1	11455.6	10954.4
57.5°	6942.5	7051.6	7594.5	8413.6	10230.4	12604.2	13729.5	13741.1	12750.4	12922.1	12518.3
60°	5568.9	5603.7	6244.1	7339.3	9808.1	13824.7	16407.2	16451.3	14803.9	14228.4	13314.2
62.5°	3849.5	3960.8	4443.5	5404.1	8125.9	13687.8	18989.8	19207.9	16449.0	14917.6	13439.5
65°	2533.8	2601.1	2858.7	3443.4	5657.0	11864.0	19792.6	20465.5	17706.6	14957.0	12915.1
67.5°	1837.7	1849.3	1925.9	2227.5	3399.3	8531.9	18421.3	19370.3	18177.7	14627.5	11685.3
70°	1485.0	1494.3	1522.2	1714.7	2195.1	5339.1	15024.3	16511.7	16764.6	13065.9	9411.4
72.5°	1206.6	1218.2	1253.0	1434.0	1809.9	2970.1	10986.9	12799.1	13636.7	9666.6	6255.7
75°	949.0	958.3	1041.8	1220.5	1700.8	2039.6	7288.2	9063.3	9177.0	5650.1	2928.3
77.5°	649.7	665.9	768.0	1034.9	1601.0	1784.4	4543.3	5805.5	5209.2	2211.3	1007.0
80°	413.0	436.2	496.6	784.3	1415.4	1703.1	2826.2	3466.6	2280.9	756.4	485.0
82.5°	243.6	266.8	327.2	508.2	1111.5	1580.2	1990.9	2169.5	1069.7	387.5	292.4
85°	134.6	150.8	197.2	306.3	652.0	1403.8	1594.1	1557.0	612.6	206.5	183.3
87.5°	44.1	51.0	71.9	123.0	269.2	661.3	956.0	898.0	317.9	95.1	71.9
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°	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9	5670.9
2.5°	5666.3	5659.3	5554.9	5476.0	5341.5	5230.1	5186.0	5125.7	5123.3	5079.3	5067.7
5°	5529.4	5457.5	5297.4	5144.2	4905.2	4745.1	4598.9	4496.8	4455.1	4364.6	4343.7
7.5°	5353.1	5257.9	5012.0	4724.2	4443.5	4192.9	3965.5	3738.1	3610.5	3566.4	3517.7
10°	5169.8	5002.7	4638.4	4315.9	3923.7	3538.5	3181.2	2861.0	2687.0	2564.0	2510.6
12.5°	5023.6	4800.8	4336.7	3854.1	3336.7	2821.6	2406.2	2069.8	1872.5	1779.7	1737.9
15°	4858.8	4564.1	4007.3	3397.0	2751.9	2167.2	1761.2	1496.6	1417.7	1373.7	1366.7
17.5°	4684.8	4343.7	3649.9	2946.9	2181.1	1631.2	1369.0	1262.3	1227.5	1208.9	1199.6
20°	4522.4	4146.5	3283.3	2445.7	1707.8	1308.7	1185.7	1130.0	1127.7	1137.0	1134.7
22.5°	4292.7	3888.9	2921.3	1981.6	1364.4	1139.3	1060.4	1046.5	1060.4	1072.0	1076.6
25°	4162.7	3677.8	2517.6	1573.2	1127.7	1011.7	986.2	981.5	1002.4	1016.3	1014.0
27.5°	4028.1	3459.7	2141.7	1260.0	988.5	921.2	916.5	921.2	942.1	962.9	960.6
30°	3923.7	3285.6	1789.0	1053.4	881.7	856.2	851.6	856.2	867.8	870.1	870.1
32.5°	3837.9	3079.1	1489.7	914.2	816.8	795.9	800.5	798.2	800.5	802.8	805.2
35°	3786.8	2956.1	1243.7	828.4	763.4	747.2	744.8	737.9	740.2	742.5	740.2
37.5°	3895.9	2895.8	1048.8	768.0	726.3	712.3	707.7	703.1	696.1	696.1	696.1
40°	4060.6	2863.3	930.5	728.6	698.4	682.2	668.3	663.6	663.6	665.9	668.3
42.5°	4387.8	2916.7	849.3	698.4	663.6	645.1	631.1	633.5	640.4	647.4	642.7
45°	4861.1	3079.1	812.1	675.2	642.7	617.2	607.9	605.6	612.6	624.2	633.5
47.5°	5480.7	3332.0	798.2	654.3	628.8	594.0	582.4	589.4	598.7	614.9	607.9
50°	6494.7	3900.5	809.8	635.8	607.9	582.4	568.5	561.5	568.5	580.1	584.7
52.5°	7819.6	4933.1	853.9	626.5	594.0	573.1	549.9	538.3	545.3	554.6	554.6
55°	9404.4	6343.9	976.9	614.9	570.8	559.2	533.7	510.5	515.1	515.1	512.8
57.5°	10801.3	7408.9	1123.1	598.7	556.9	540.6	508.2	480.3	475.7	478.0	480.3
60°	11427.8	7692.0	1192.7	594.0	556.9	517.4	473.4	445.5	438.5	433.9	433.9
62.5°	11318.7	7202.4	1051.1	573.1	570.8	498.9	440.9	410.7	401.4	392.1	394.5
65°	10659.7	6504.0	828.4	545.3	573.1	487.3	408.4	378.2	362.0	350.4	348.1
67.5°	9455.5	5552.6	656.7	524.4	549.9	466.4	380.5	345.7	331.8	320.2	315.6
70°	7397.3	4353.0	570.8	496.6	494.2	415.3	348.1	317.9	297.0	283.1	283.1
72.5°	4796.2	2751.9	489.6	440.9	426.9	348.1	301.6	283.1	266.8	255.2	255.2
75°	2171.9	1278.5	394.5	368.9	348.1	278.4	255.2	246.0	232.0	220.4	220.4
77.5°	779.6	545.3	294.7	290.0	259.9	215.8	206.5	199.6	190.3	178.7	178.7
80°	436.2	345.7	220.4	211.2	181.0	160.1	148.5	148.5	143.9	136.9	134.6
82.5°	276.1	225.1	162.4	141.5	118.3	106.7	102.1	99.8	97.5	88.2	85.9
85°	174.0	153.1	106.7	83.5	69.6	53.4	51.0	48.7	44.1	39.4	39.4
87.5°	78.9	88.2	41.8	25.5	18.6	11.6	7.0	2.3	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)