

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: P481029

Luminaire Tested: **IFLD-L-SA7B-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481029
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

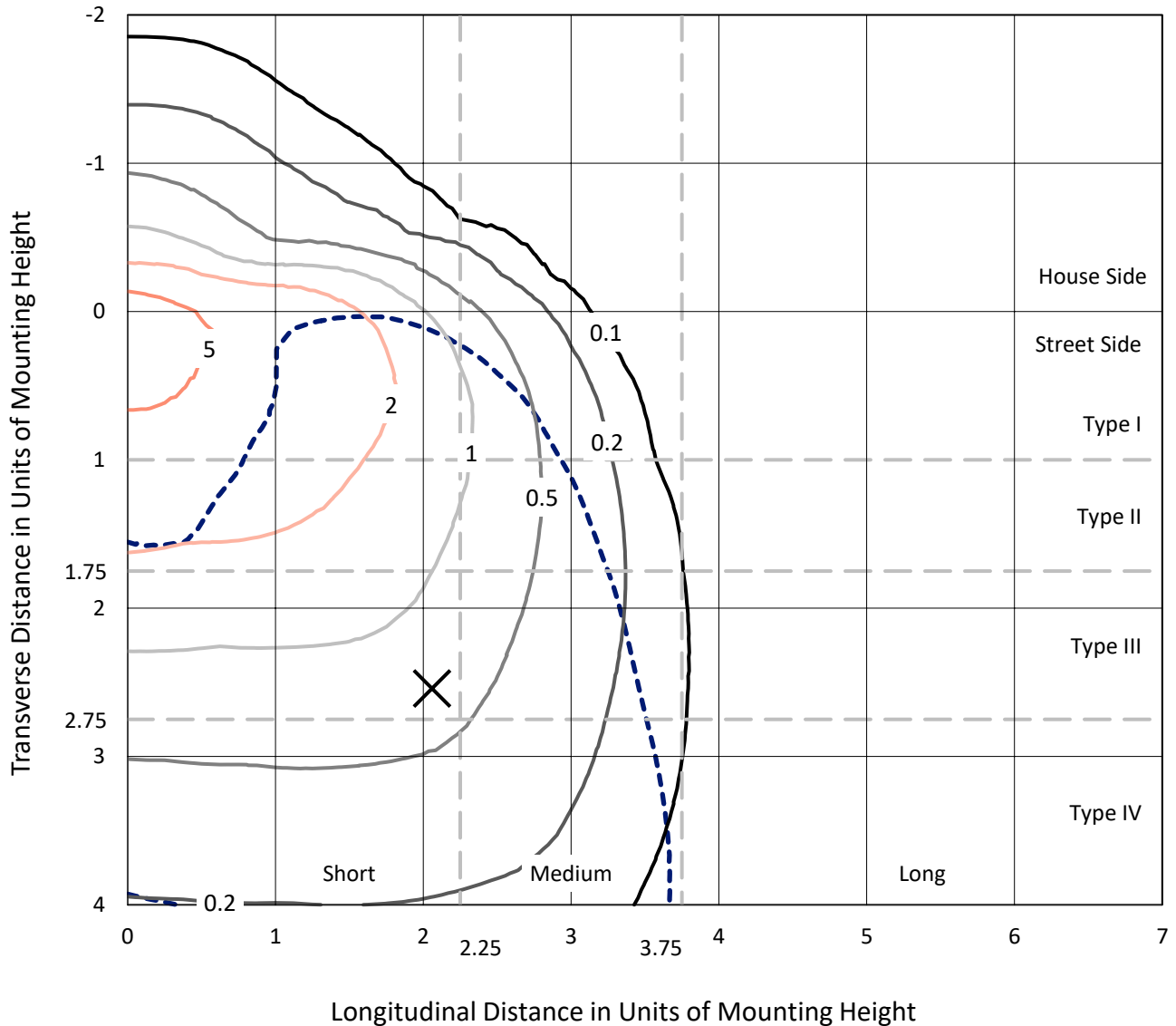
Lumens per Lamp: N/A
Luminaire Lumens: 25321.9 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 281
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

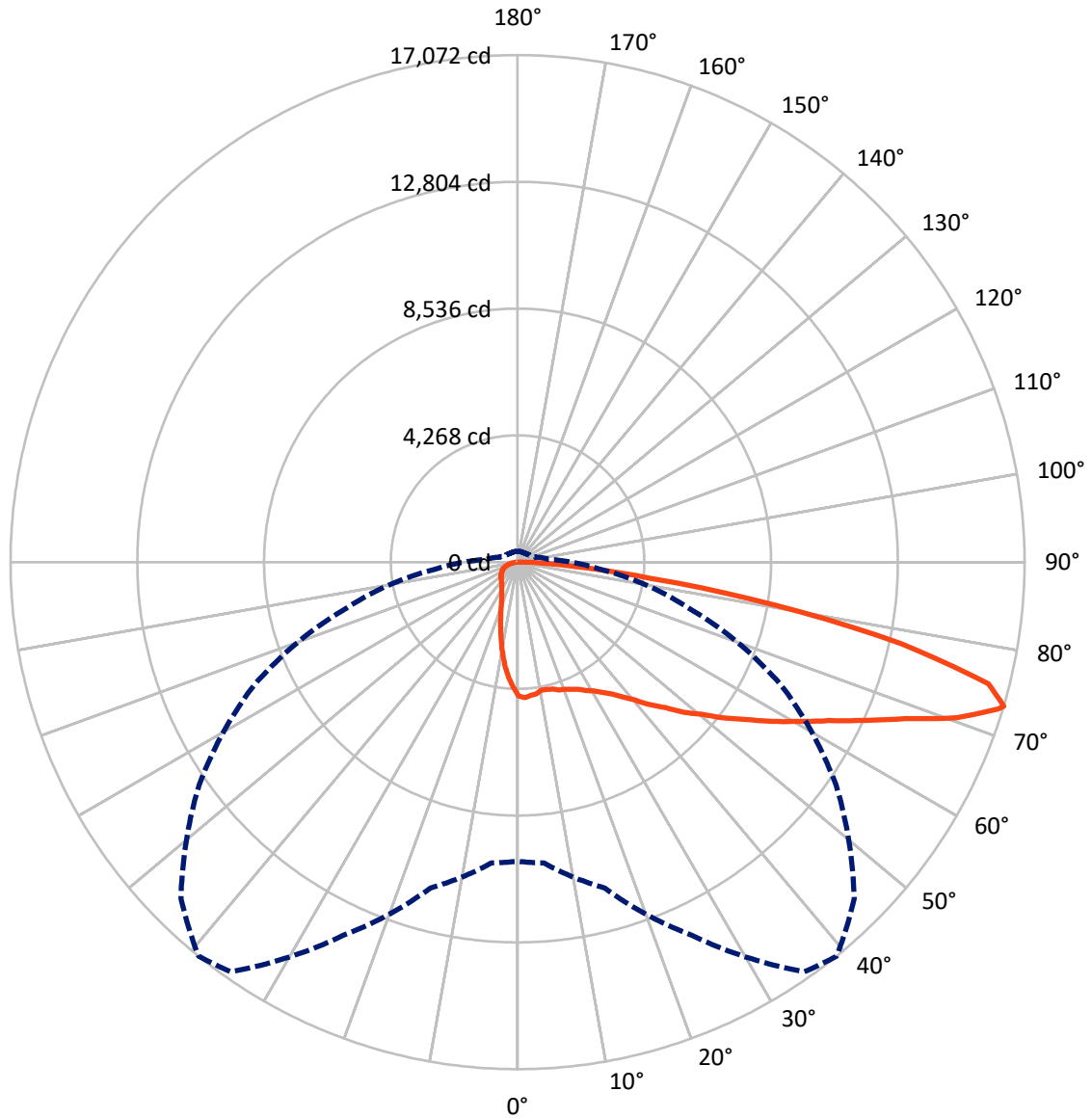
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3559.5	0.0	3559.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	21762.3	0.0	21762.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	25321.9	0.0	25321.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.3	1.5
10°-20°	994.7	3.9
20°-30°	1520.0	6.0
30°-40°	2216.2	8.8
40°-50°	3348.9	13.2
50°-60°	4849.4	19.2
60°-70°	6161.4	24.3
70°-80°	4994.8	19.7
80°-90°	845.1	3.3
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°	25321.9	100.0
0°-180°	25321.9	100.0

Coefficient of Utilization



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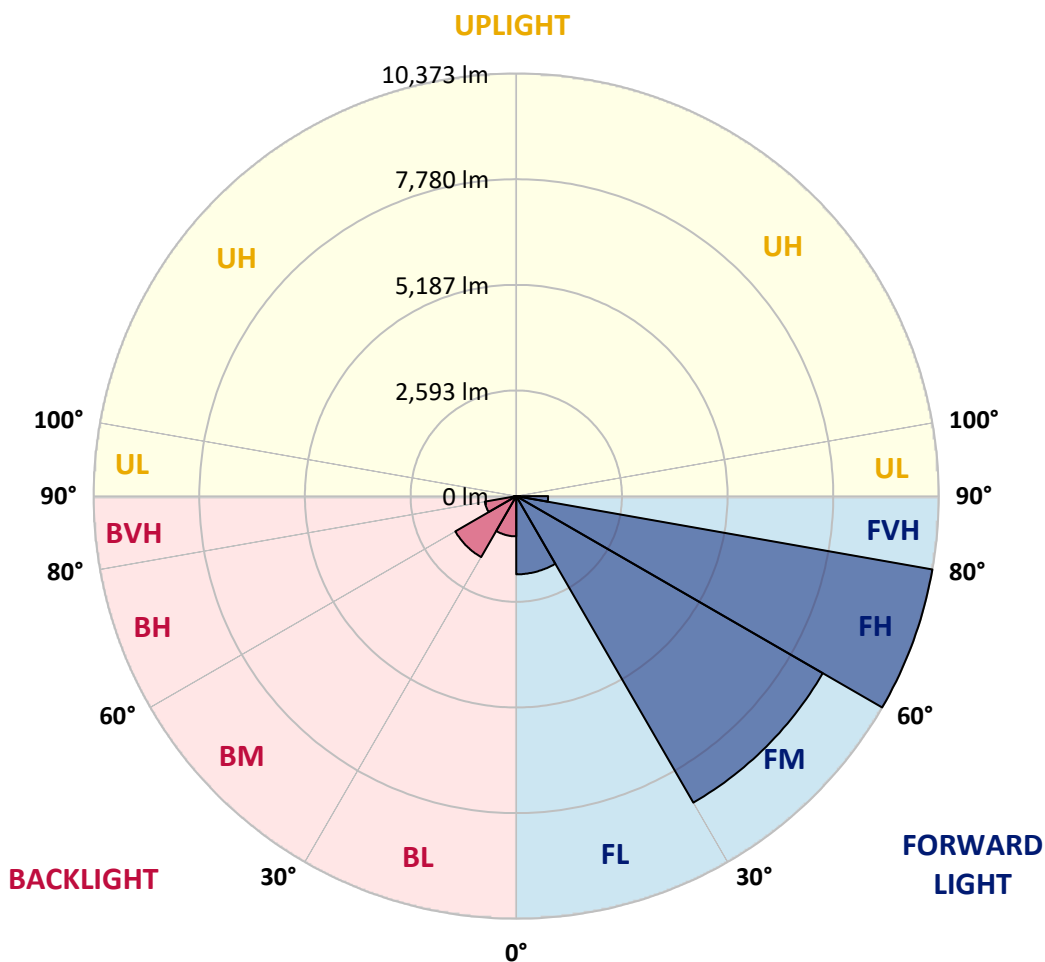
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1918.8	7.6			
FM (30°-60°)	8687.0	34.3			
FH (60°-80°)	10373.4	41.0			G4/12000
FVH (80°-90°)	783.1	3.1			G5
BL (0°-30°)	987.1	3.9	B2/1000		
BM (30°-60°)	1727.5	6.8	B2/2500		
BH (60°-80°)	782.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	62.0	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4
2.5°	4615.1	4566.9	4575.4	4558.4	4575.4	4569.8	4561.3	4518.8	4561.3	4518.8	4507.4
5°	4552.8	4552.8	4581.1	4538.6	4544.3	4515.9	4544.3	4513.1	4484.8	4414.0	4394.1
7.5°	4532.9	4530.1	4532.9	4473.5	4501.8	4484.8	4456.5	4422.5	4365.8	4320.5	4255.3
10°	4397.0	4425.3	4394.1	4411.1	4433.8	4382.8	4380.0	4371.5	4346.0	4286.5	4246.8
12.5°	4323.3	4371.5	4388.5	4374.3	4394.1	4399.8	4382.8	4371.5	4340.3	4300.6	4187.3
15°	4354.5	4297.8	4346.0	4439.5	4419.6	4433.8	4436.6	4425.3	4411.1	4337.5	4263.8
17.5°	4363.0	4329.0	4431.0	4450.8	4476.3	4527.3	4493.3	4490.5	4436.6	4385.6	4278.0
20°	4382.8	4368.6	4450.8	4555.6	4558.4	4566.9	4583.9	4541.4	4513.1	4425.3	4261.0
22.5°	4456.5	4504.6	4581.1	4626.4	4651.9	4657.6	4657.6	4572.6	4541.4	4470.6	4340.3
25°	4677.4	4626.4	4734.1	4787.9	4751.1	4742.6	4722.8	4646.3	4612.3	4549.9	4377.1
27.5°	4838.9	4836.1	4898.4	4972.1	4872.9	4892.7	4821.9	4799.3	4722.8	4688.8	4442.3
30°	5059.9	5122.2	5119.4	5142.1	5011.7	5034.4	4943.7	4901.2	4858.8	4878.6	4634.9
32.5°	5343.2	5320.5	5357.4	5340.4	5210.1	5229.9	5122.2	5057.1	5071.2	5130.7	4898.4
35°	5524.5	5501.9	5516.0	5516.0	5476.4	5453.7	5408.4	5323.4	5391.4	5501.9	5193.1
37.5°	5720.0	5748.3	5830.5	5813.5	5762.5	5762.5	5756.8	5697.3	5785.2	6057.1	5663.4
40°	5892.8	5969.3	6020.3	6054.3	6113.8	6113.8	6162.0	6128.0	6286.6	6722.9	6238.5
42.5°	6074.1	6077.0	6354.6	6380.1	6513.3	6569.9	6606.8	6635.1	6932.6	7419.9	6853.2
45°	6306.5	6320.6	6564.3	6759.8	6966.6	6986.4	7125.2	7218.7	7584.2	8182.0	7521.9
47.5°	6612.4	6595.4	6856.1	7167.7	7425.5	7561.5	7728.7	7830.7	8281.1	9009.2	8252.8
50°	7014.7	6963.7	7113.9	7604.0	7907.2	8057.3	8354.8	8524.8	9051.7	9799.7	8754.3
52.5°	7504.9	7419.9	7538.9	8074.3	8414.3	8717.4	9000.7	9190.5	9740.2	10411.6	9125.4
55°	8023.3	7847.7	7881.7	8572.9	9063.1	9349.2	9737.3	9935.7	10496.6	10961.2	9496.5
57.5°	8536.1	8425.6	8357.6	9051.7	9836.5	10111.3	10468.3	10726.1	11202.0	11448.5	9811.0
60°	8966.7	8938.4	8827.9	9794.0	10655.3	10890.4	11264.4	11423.0	11782.8	11899.0	9816.7
62.5°	9320.9	9224.5	9400.2	10391.8	11488.2	11754.5	12165.3	12179.5	12434.4	12179.5	9527.7
65°	9598.5	9604.2	9884.7	11114.2	12451.4	12845.2	13176.7	13139.9	12975.6	12012.3	8844.9
67.5°	9850.7	9958.3	10369.1	11907.5	13689.5	14060.6	14428.9	13941.6	13122.9	11230.4	7510.5
70°	10049.0	10156.6	11023.6	12873.6	15148.5	15692.5	15774.7	14258.9	12445.8	9513.5	5666.2
72.5°	10026.3	10221.8	11394.7	13644.2	16443.3	16913.6	16250.6	13366.5	10369.1	6632.3	3306.2
73°	10074.5	10170.8	11363.5	13859.5	16837.1	17072.2	16029.6	13086.0	9779.8	5949.5	2796.3
75°	9145.2	9471.0	10799.7	13508.2	16414.9	16372.4	14760.4	10904.6	6952.4	3124.9	1354.2
77.5°	6765.4	6972.2	8510.6	11108.6	13474.2	13202.2	11134.0	6969.4	3300.6	1158.7	730.9
80°	3306.2	3467.7	4510.3	6414.1	8810.9	8833.6	6909.9	3626.4	1413.7	654.4	498.6
82.5°	1651.7	1748.0	2167.3	2818.9	4334.6	4541.4	3504.5	2062.5	875.4	371.1	283.3
85°	1079.4	1147.4	1334.4	1379.7	1838.7	1940.7	1631.9	1609.2	569.5	201.1	229.5
87.5°	716.8	728.1	818.8	696.9	736.6	708.3	787.6	1014.2	167.2	85.0	62.3
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°	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4	4507.4
2.5°	4493.3	4453.6	4411.1	4351.6	4309.1	4244.0	4184.5	4159.0	4153.3	4156.1	4127.8
5°	4377.1	4320.5	4235.5	4113.6	4042.8	3935.2	3844.5	3796.3	3745.3	3753.8	3731.2
7.5°	4215.6	4153.3	4023.0	3881.3	3705.7	3552.7	3467.7	3348.7	3280.7	3229.7	3258.1
10°	4164.6	4057.0	3861.5	3666.0	3394.0	3192.9	2997.4	2861.4	2767.9	2677.3	2716.9
12.5°	4139.1	4031.5	3759.5	3470.5	3119.2	2813.3	2538.5	2371.3	2238.1	2158.8	2190.0
15°	4116.5	3983.3	3663.2	3255.2	2861.4	2459.1	2150.3	1929.3	1801.8	1725.4	1733.9
17.5°	4147.6	3957.8	3521.5	3045.6	2578.1	2147.5	1804.7	1575.2	1444.9	1396.7	1385.4
20°	4116.5	3929.5	3382.7	2835.9	2294.8	1850.0	1521.4	1331.6	1240.9	1201.2	1192.7
22.5°	4127.8	3861.5	3238.2	2603.6	2031.3	1600.7	1331.6	1187.1	1116.2	1096.4	1102.1
25°	4181.6	3821.8	3093.7	2348.6	1770.7	1416.5	1209.7	1099.2	1048.2	1028.4	1034.1
27.5°	4221.3	3855.8	2963.4	2107.8	1549.7	1252.2	1107.7	1034.1	1000.1	985.9	983.1
30°	4320.5	3875.7	2835.9	1892.5	1368.4	1144.6	1036.9	977.4	954.8	946.3	943.4
32.5°	4467.8	3912.5	2688.6	1694.2	1235.2	1042.6	980.2	929.3	923.6	915.1	917.9
35°	4708.6	4040.0	2524.3	1524.2	1107.7	974.6	920.8	886.8	886.8	886.8	895.3
37.5°	5054.2	4218.5	2377.0	1362.7	1025.6	915.1	869.8	858.4	852.8	861.3	866.9
40°	5499.0	4433.8	2258.0	1235.2	954.8	875.4	835.8	830.1	827.3	824.4	830.1
42.5°	5986.3	4708.6	2156.0	1136.1	903.8	832.9	804.6	798.9	787.6	793.3	801.8
45°	6470.8	5048.6	2065.3	1056.7	869.8	810.3	770.6	767.8	762.1	759.3	773.4
47.5°	7009.1	5382.9	2037.0	1008.6	844.3	776.3	747.9	745.1	728.1	725.3	736.6
50°	7428.4	5629.4	2068.2	985.9	807.4	750.8	730.9	716.8	702.6	688.4	688.4
52.5°	7717.3	5799.3	2090.8	968.9	787.6	716.8	691.3	685.6	671.4	657.3	651.6
55°	7978.0	5901.3	2096.5	971.8	767.8	677.1	660.1	657.3	648.8	626.1	620.4
57.5°	8065.8	5858.8	1983.2	946.3	756.4	651.6	628.9	634.6	623.3	603.4	600.6
60°	8057.3	5564.2	1725.4	912.3	730.9	623.3	594.9	611.9	611.9	589.3	586.4
62.5°	7567.2	4884.2	1410.9	847.1	702.6	594.9	563.8	589.3	597.8	583.6	580.8
65°	6550.1	3977.7	1178.6	781.9	660.1	563.8	532.6	561.0	575.1	569.5	566.6
67.5°	5419.7	3042.7	980.2	696.9	606.3	521.3	495.8	515.6	524.1	527.0	529.8
70°	3830.3	2025.7	818.8	603.4	532.6	476.0	447.6	450.5	447.6	456.1	456.1
72.5°	2082.3	1167.2	665.8	512.8	459.0	413.6	393.8	379.6	379.6	376.8	376.8
73°	1782.0	1048.2	634.6	498.6	439.1	402.3	379.6	368.3	368.3	365.5	362.6
75°	1000.1	767.8	544.0	427.8	379.6	351.3	334.3	317.3	314.5	314.5	314.5
77.5°	657.3	597.8	433.5	342.8	306.0	280.5	274.8	257.8	257.8	257.8	255.0
80°	493.0	470.3	334.3	260.6	235.1	215.3	209.6	198.3	195.5	184.2	187.0
82.5°	328.6	371.1	243.6	184.2	158.7	147.3	147.3	144.5	136.0	121.8	121.8
85°	260.6	303.1	175.7	113.3	93.5	79.3	82.2	79.3	76.5	62.3	59.5
87.5°	48.2	121.8	51.0	31.2	22.7	14.2	14.2	8.5	5.7	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)