

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: P484686

Luminaire Tested: **IFLD-S-SA6C-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484686
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

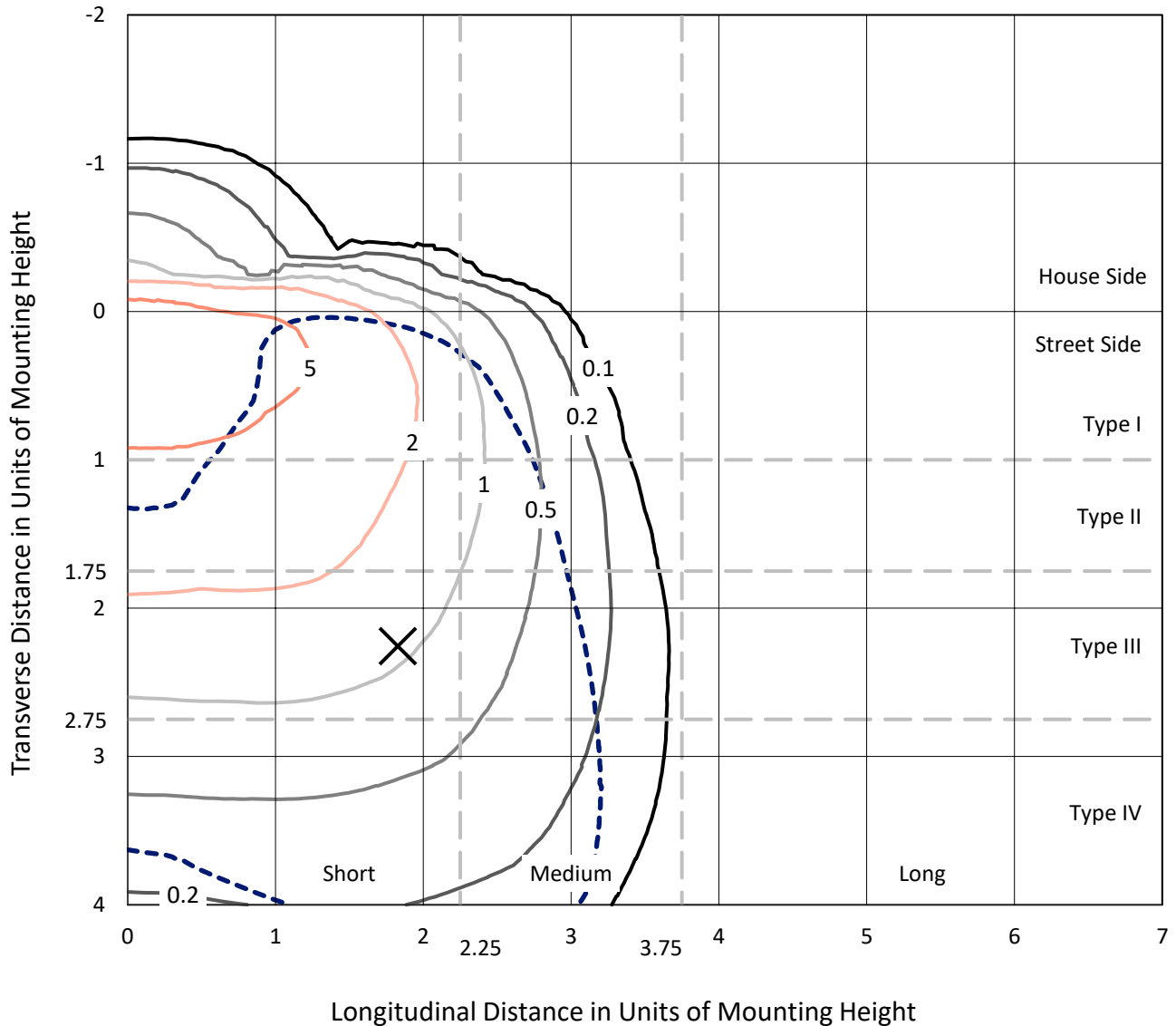
Lumens per Lamp: N/A
Luminaire Lumens: 28707.4 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 321.5
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

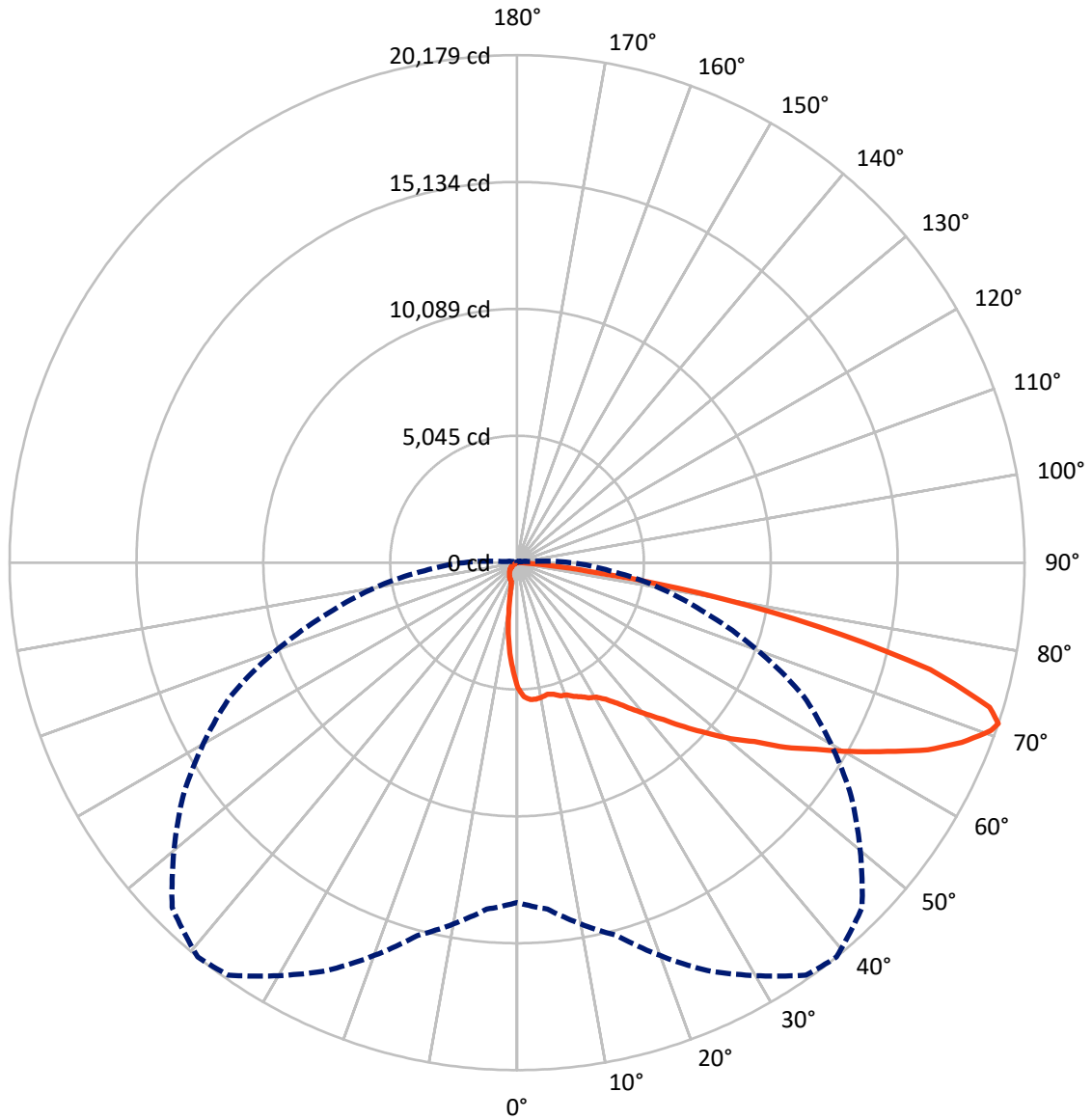
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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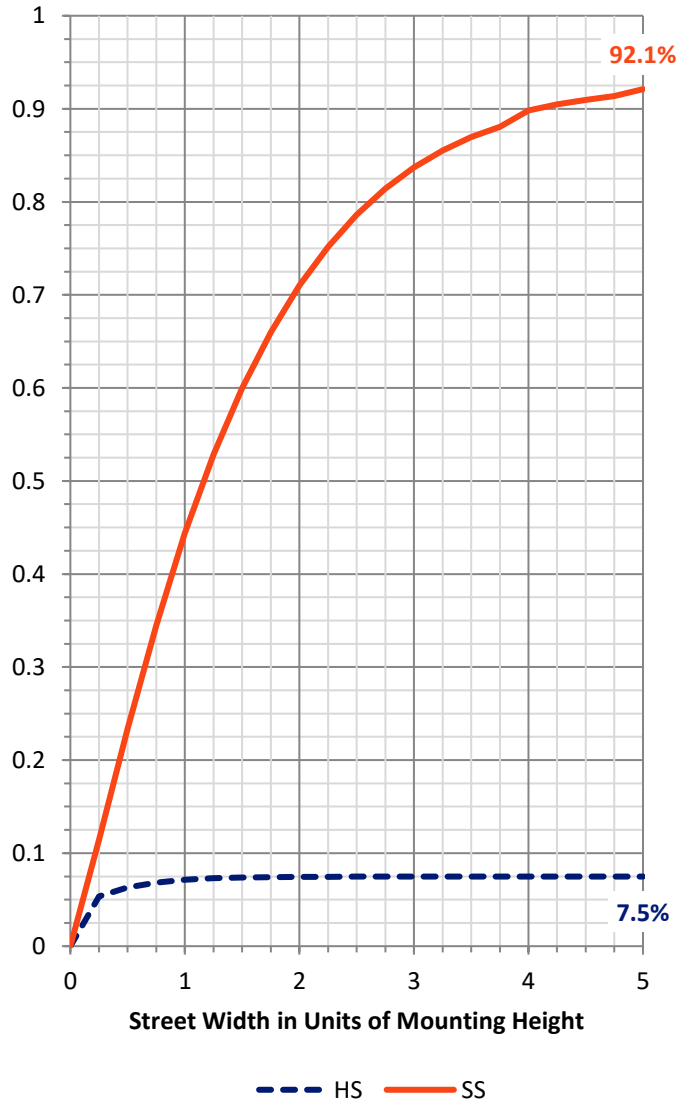
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2161.2	0.0	2161.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	26546.2	0.0	26546.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	28707.4	0.0	28707.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.8	1.5
10°-20°	1028.2	3.6
20°-30°	1650.7	5.8
30°-40°	2526.8	8.8
40°-50°	4056.0	14.1
50°-60°	5957.5	20.8
60°-70°	7503.3	26.1
70°-80°	5007.5	17.4
80°-90°	559.6	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°	28707.4	100.0
0°-180°	28707.4	100.0

Coefficient of Utilization



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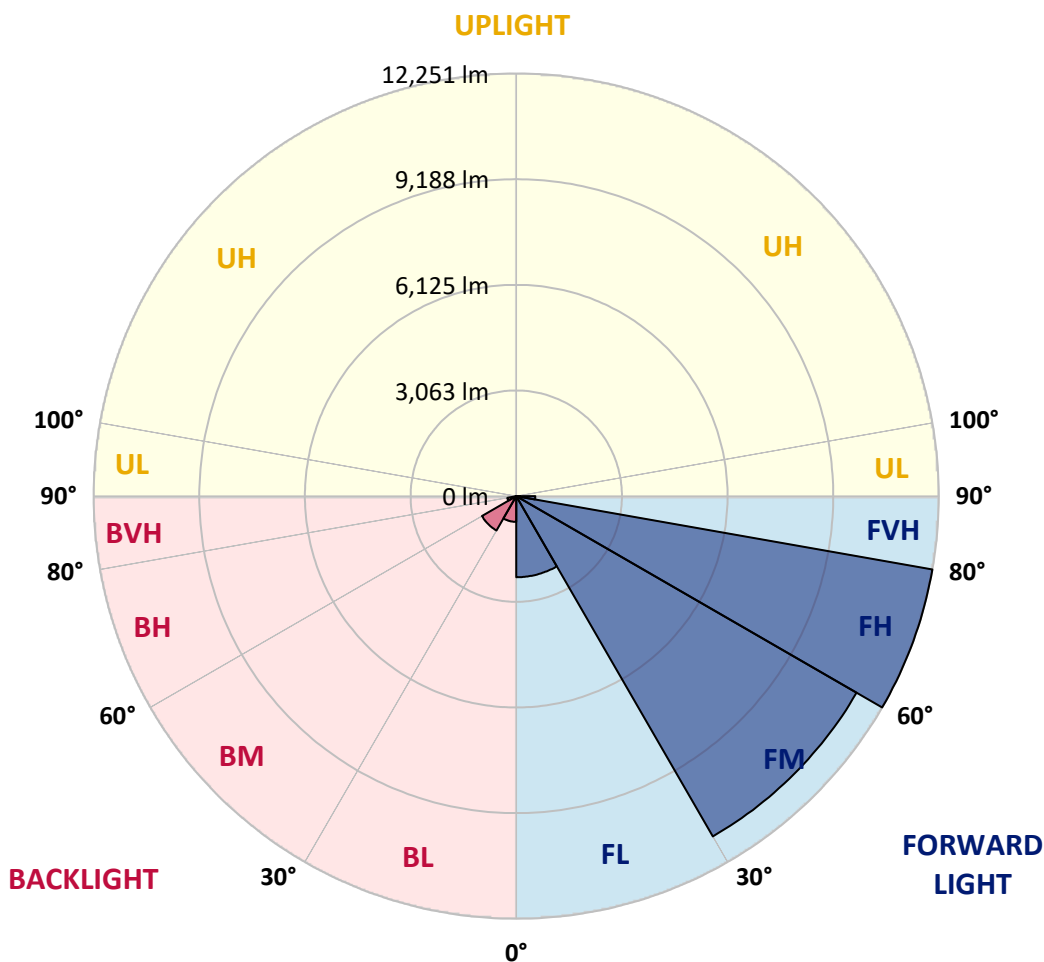
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2350.5	8.2			
FM (30°-60°)	11391.5	39.7			
FH (60°-80°)	12250.7	42.7			G5
FVH (80°-90°)	553.5	1.9			G4/750
BL (0°-30°)	746.2	2.6	B2/1000		
BM (30°-60°)	1148.8	4.0	B2/2500		
BH (60°-80°)	260.1	0.9	B1/500		G1/500
BVH (80°-90°)	6.2	0.0			G0/10
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°	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7
2.5°	5384.5	5437.3	5384.5	5362.0	5339.4	5343.1	5282.9	5294.2	5222.6	5128.5	5053.2
5°	5554.0	5625.5	5569.1	5542.7	5538.9	5467.4	5437.3	5365.7	5279.1	5132.3	5041.9
7.5°	5538.9	5523.9	5550.2	5527.6	5478.7	5478.7	5444.8	5343.1	5256.5	5090.8	4936.5
10°	5426.0	5471.1	5448.6	5422.2	5433.5	5437.3	5373.2	5301.7	5275.3	5109.7	4857.4
12.5°	5414.7	5339.4	5422.2	5426.0	5377.0	5373.2	5365.7	5346.9	5264.1	5113.4	4876.2
15°	5377.0	5346.9	5429.7	5433.5	5444.8	5433.5	5444.8	5429.7	5346.9	5260.3	4959.1
17.5°	5407.1	5373.2	5490.0	5546.5	5520.1	5572.8	5554.0	5486.2	5414.7	5313.0	5038.1
20°	5414.7	5463.6	5591.6	5614.2	5697.1	5610.5	5606.7	5535.2	5490.0	5380.8	5087.1
22.5°	5554.0	5576.6	5734.7	5783.7	5787.4	5776.1	5682.0	5599.2	5580.3	5444.8	5098.4
25°	5764.9	5843.9	5915.5	5945.6	5956.9	5904.2	5806.3	5700.8	5655.7	5569.1	5215.1
27.5°	6137.6	6088.7	6152.7	6197.9	6069.9	6088.7	5964.4	5874.0	5810.0	5734.7	5350.7
30°	6469.0	6423.8	6427.6	6420.0	6310.8	6209.2	6175.3	6017.1	5938.1	5968.2	5561.5
32.5°	6766.5	6668.6	6751.4	6713.7	6510.4	6480.3	6453.9	6254.4	6269.4	6408.7	5877.8
35°	7041.3	7007.4	7075.2	7007.4	6871.9	6864.4	6838.0	6664.8	6747.6	6947.2	6420.0
37.5°	7293.6	7304.9	7387.7	7353.9	7365.2	7372.7	7357.6	7173.1	7410.3	7858.4	7052.6
40°	7527.1	7512.0	7715.3	7820.8	7843.4	7926.2	7926.2	7881.0	8246.3	8750.8	7930.0
42.5°	7775.6	7813.2	8076.8	8253.8	8468.4	8540.0	8637.9	8660.5	9225.3	9801.4	8826.1
45°	8182.2	8118.2	8453.4	8871.3	9059.6	9311.9	9462.5	9590.5	10272.1	11062.8	9722.3
47.5°	8698.1	8570.1	8863.8	9470.0	9906.8	10113.9	10385.0	10554.5	11220.9	12038.0	10569.5
50°	9270.5	9138.7	9281.8	10117.7	10626.0	11002.5	11349.0	11563.6	12369.4	13130.0	11187.1
52.5°	9918.1	9797.6	9820.2	10791.7	11541.0	11815.9	12271.5	12591.6	13393.6	13789.0	11405.4
55°	10607.2	10577.1	10505.5	11450.6	12343.0	12960.6	13235.4	13619.5	14444.1	14146.7	11642.7
57.5°	11300.0	11205.9	11307.5	12324.2	13630.8	13999.8	14380.1	14609.8	15027.8	14459.2	11552.3
60°	11951.4	11959.0	12102.0	13273.1	14726.5	15249.9	15592.6	15453.3	15626.5	14594.8	11345.2
62.5°	12501.2	12486.1	12847.6	14338.7	16176.2	16530.2	16786.2	16164.9	15905.1	14726.5	10983.7
65°	12994.5	13163.9	13732.5	15607.6	17539.3	17946.0	17791.6	16838.9	16176.2	14338.7	9967.1
67.5°	13367.2	13619.5	14606.0	16801.3	18789.4	19075.6	18861.0	17351.0	15856.2	12817.5	8118.2
70°	13585.6	13841.7	15231.1	17795.4	19787.3	19994.4	19489.8	16955.7	13988.5	9281.8	5064.5
71°	13517.8	13830.4	15351.6	17900.8	20024.5	20178.9	19395.7	16225.2	12580.3	7771.8	3693.9
72.5°	12904.1	13197.8	14850.8	17825.5	19738.3	19644.2	18661.4	14470.5	9903.0	4955.3	1909.1
75°	9481.3	9797.6	12745.9	15419.4	17618.4	16970.7	15103.1	10155.3	5166.2	1517.5	557.3
77.5°	4721.8	4774.5	7911.1	11194.6	12922.9	12279.0	10121.4	5663.2	1931.7	448.1	278.6
80°	2176.4	2191.5	2967.1	5798.7	7813.2	7353.9	5670.7	2793.9	873.6	237.2	218.4
82.5°	1483.6	1506.2	1788.6	2402.3	3392.6	2861.7	2296.9	1788.6	500.8	143.1	214.6
85°	271.1	248.5	1001.6	1272.7	1310.4	888.6	794.5	1547.6	188.3	82.8	188.3
87.5°	0.0	3.8	139.3	519.6	466.9	207.1	271.1	376.5	18.8	26.4	33.9
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°	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7	4996.7
2.5°	4989.2	4947.8	4808.4	4654.1	4514.7	4405.5	4266.2	4202.2	4100.5	4044.1	4040.3
5°	4917.6	4804.7	4563.7	4303.9	4013.9	3772.9	3505.6	3355.0	3181.8	3129.1	3117.8
7.5°	4797.1	4635.2	4281.3	3916.0	3471.7	3046.2	2718.6	2368.4	2153.8	2063.4	2029.6
10°	4721.8	4526.0	4044.1	3498.1	2876.8	2278.1	1818.7	1445.9	1250.1	1156.0	1133.4
12.5°	4721.8	4511.0	3852.0	3098.9	2274.3	1558.9	1125.9	911.2	847.2	824.6	824.6
15°	4710.5	4480.8	3667.5	2688.5	1683.1	1046.8	839.7	794.5	787.0	783.2	779.4
17.5°	4767.0	4428.1	3479.2	2248.0	1189.9	824.6	771.9	764.4	756.8	756.8	749.3
20°	4808.4	4398.0	3253.3	1781.0	888.6	764.4	741.8	730.5	726.7	723.0	730.5
22.5°	4774.5	4352.8	2974.7	1333.0	775.7	726.7	711.7	700.4	692.8	692.8	696.6
25°	4838.6	4311.4	2696.0	1005.4	726.7	692.8	677.8	670.2	666.5	662.7	655.2
27.5°	4925.2	4330.2	2364.7	809.6	685.3	658.9	643.9	636.4	632.6	625.1	632.6
30°	5030.6	4326.5	1999.4	707.9	647.7	621.3	606.2	602.5	594.9	591.2	594.9
32.5°	5211.3	4424.4	1622.9	655.2	606.2	583.6	568.6	564.8	561.0	557.3	553.5
35°	5599.2	4544.9	1268.9	613.8	568.6	542.2	530.9	523.4	519.6	515.9	512.1
37.5°	6077.4	4812.2	967.7	576.1	530.9	504.6	493.3	489.5	474.4	470.7	466.9
40°	6676.1	5098.4	745.6	534.7	497.0	470.7	459.4	448.1	429.3	421.7	414.2
42.5°	7421.6	5377.0	613.8	497.0	459.4	440.6	421.7	402.9	387.8	372.8	365.2
45°	8167.2	5700.8	538.5	463.1	429.3	406.7	391.6	365.2	338.9	316.3	312.5
47.5°	8788.5	5817.6	493.3	425.5	399.1	380.3	357.7	323.8	286.2	263.6	259.8
50°	9251.6	5749.8	448.1	387.8	365.2	346.4	316.3	274.9	237.2	214.6	207.1
52.5°	9342.0	5452.3	406.7	357.7	331.4	308.8	274.9	229.7	188.3	165.7	161.9
55°	9278.0	4959.1	372.8	331.4	301.2	267.3	229.7	184.5	146.9	124.3	120.5
57.5°	9146.2	4375.4	335.1	297.5	263.6	229.7	188.3	150.6	109.2	86.6	86.6
60°	8698.1	3580.9	297.5	259.8	225.9	195.8	154.4	109.2	75.3	56.5	52.7
62.5°	8073.1	2752.5	259.8	222.2	195.8	161.9	120.5	79.1	45.2	30.1	30.1
65°	6932.1	1927.9	218.4	184.5	161.9	131.8	90.4	49.0	26.4	11.3	11.3
67.5°	5267.8	1193.6	180.7	154.4	139.3	105.4	64.0	30.1	11.3	3.8	0.0
70°	3023.6	621.3	143.1	124.3	109.2	79.1	45.2	15.1	7.5	0.0	0.0
71°	2112.4	459.4	128.0	109.2	97.9	71.5	37.7	11.3	3.8	0.0	0.0
72.5°	1058.1	305.0	109.2	90.4	79.1	56.5	30.1	11.3	3.8	0.0	0.0
75°	376.5	195.8	75.3	60.2	56.5	41.4	18.8	7.5	3.8	0.0	0.0
77.5°	259.8	158.1	52.7	37.7	37.7	26.4	11.3	3.8	3.8	0.0	0.0
80°	237.2	86.6	33.9	22.6	18.8	15.1	7.5	3.8	0.0	0.0	0.0
82.5°	237.2	64.0	18.8	15.1	11.3	7.5	3.8	0.0	0.0	0.0	0.0
85°	165.7	33.9	11.3	11.3	7.5	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	26.4	11.3	7.5	3.8	3.8	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)