

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: P478886

Luminaire Tested: **IFLD-L-SA7D-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478886
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

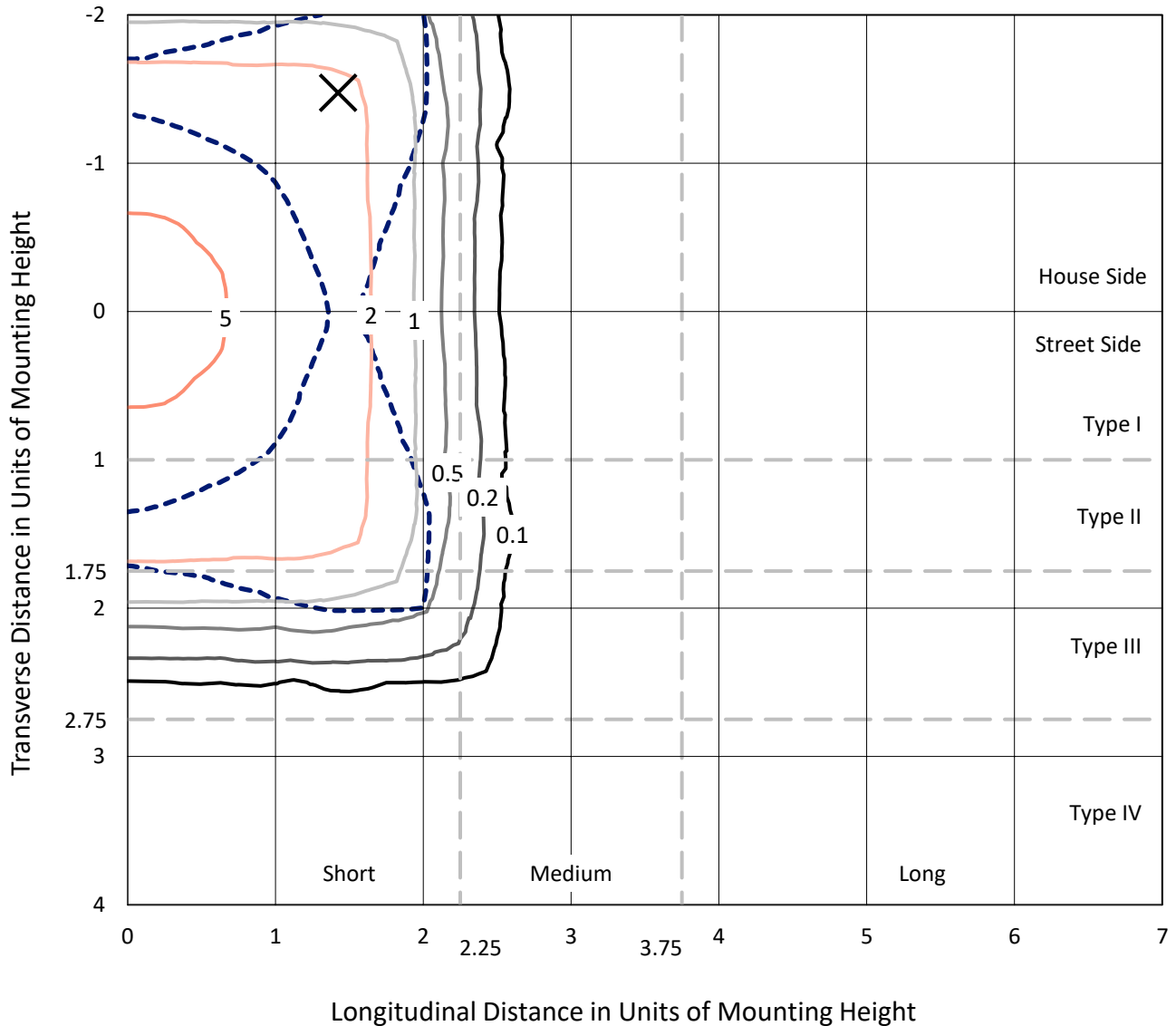
Lumens per Lamp: N/A
Luminaire Lumens: 44301.5 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 422.6
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

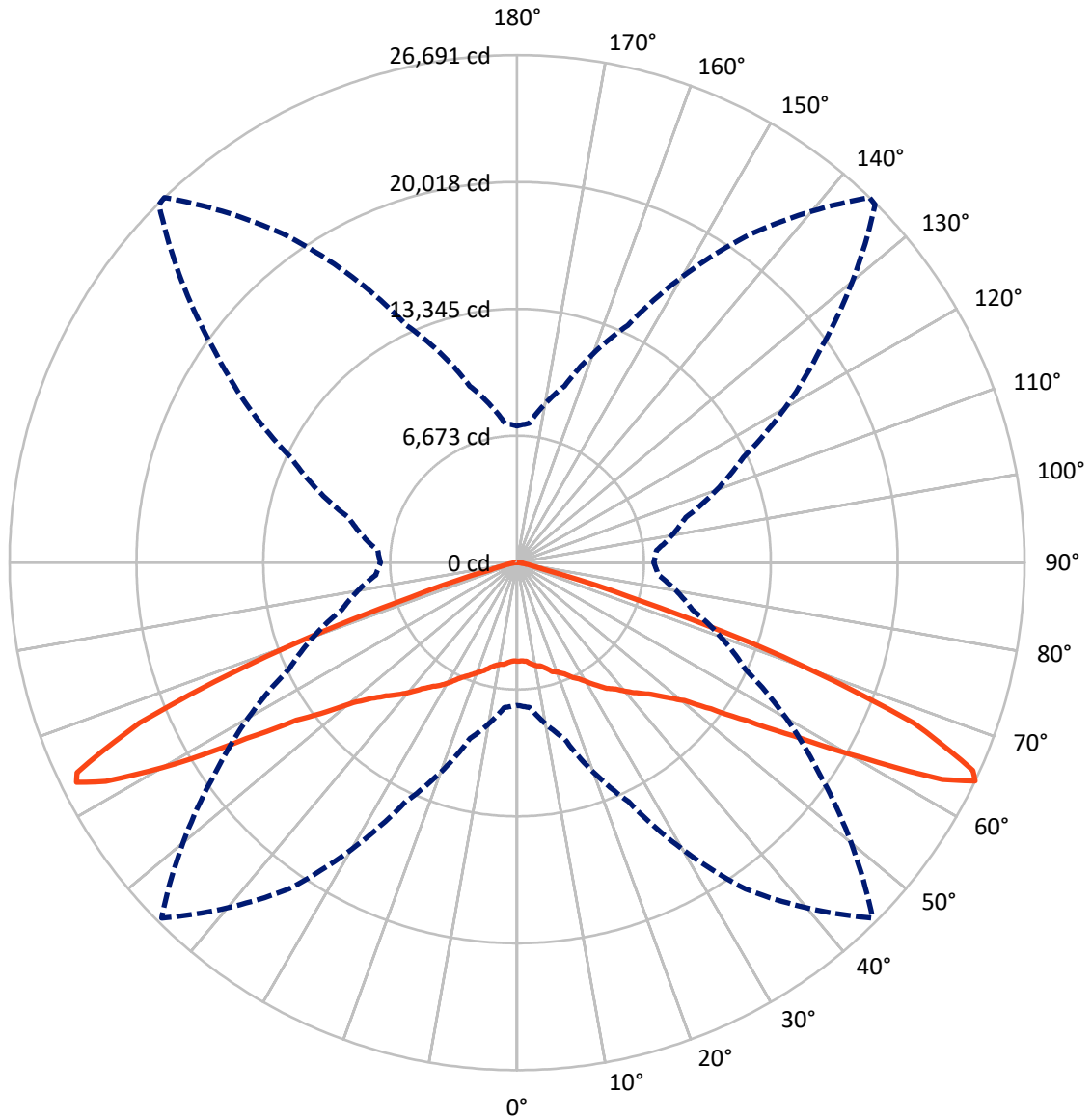
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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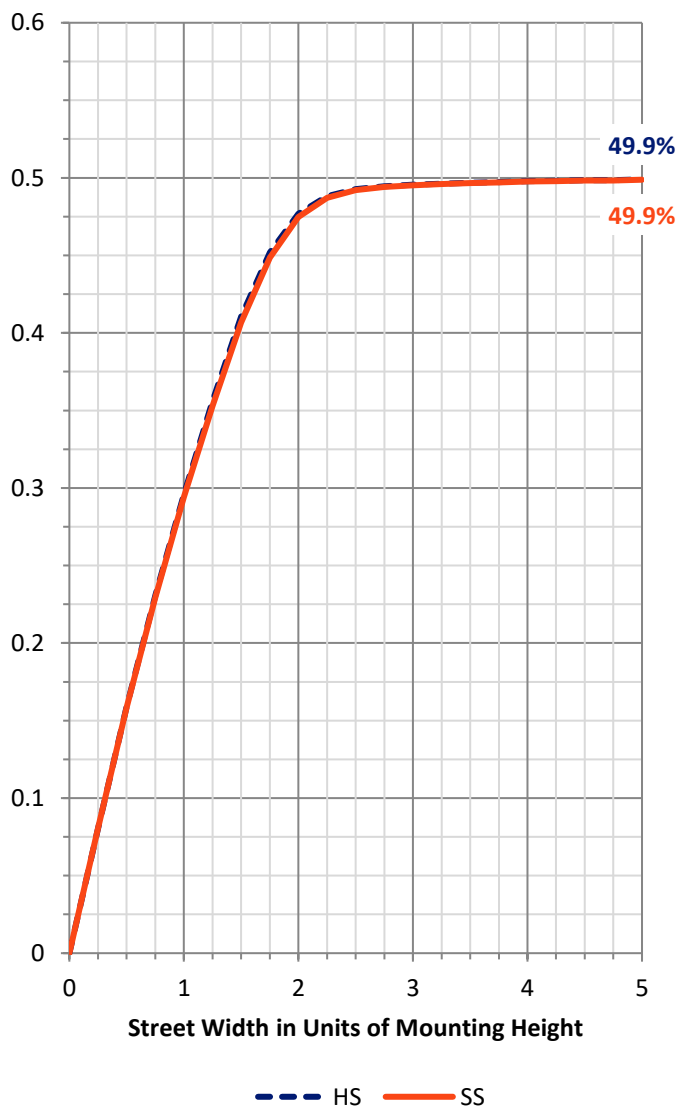
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22171.9	0.0	22171.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22129.7	0.0	22129.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	44301.5	0.0	44301.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.6	1.2
10°-20°	1642.6	3.7
20°-30°	3087.1	7.0
30°-40°	5091.1	11.5
40°-50°	7962.2	18.0
50°-60°	12864.9	29.0
60°-70°	11584.0	26.1
70°-80°	1372.2	3.1
80°-90°	187.8	0.4
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°	44301.5	100.0
0°-180°	44301.5	100.0

Coefficient of Utilization



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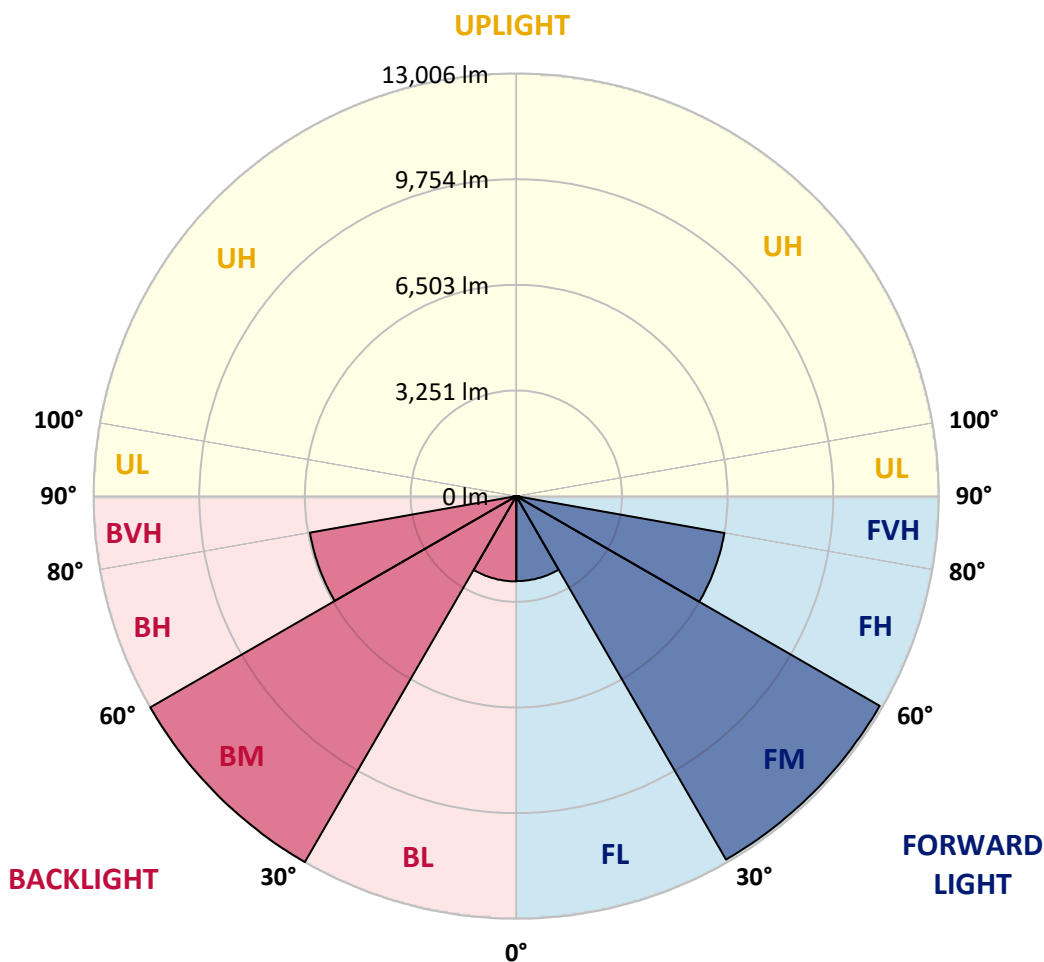
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2614.6	5.9			
FM (30°-60°)	12912.5	29.1			
FH (60°-80°)	6506.2	14.7			G3/7500
FVH (80°-90°)	96.4	0.2			G1/100
BL (0°-30°)	2624.7	5.9	B4/5000		
BM (30°-60°)	13005.7	29.4	B5		
BH (60°-80°)	6450.0	14.6	B5		G3/7500
BVH (80°-90°)	91.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8
2.5°	5125.8	5136.0	5227.4	5191.9	5222.4	5166.5	5207.1	5293.5	5191.9	5268.1	5293.5
5°	5181.7	5197.0	5197.0	5232.5	5252.8	5242.7	5268.1	5232.5	5329.0	5288.4	5349.4
7.5°	5384.9	5359.5	5318.9	5349.4	5354.4	5379.8	5405.2	5451.0	5435.7	5400.2	5461.1
10°	5420.5	5400.2	5461.1	5466.2	5440.8	5420.5	5445.9	5445.9	5491.6	5501.8	5501.8
12.5°	5481.4	5501.8	5496.7	5537.3	5542.4	5527.2	5567.8	5644.0	5623.7	5638.9	5603.4
15°	5715.1	5689.7	5684.7	5725.3	5791.3	5694.8	5765.9	5760.9	5740.5	5771.0	5689.7
17.5°	5918.3	5837.1	5872.6	5938.7	5913.3	5933.6	6025.0	5943.7	5964.1	5928.5	5903.1
20°	6096.1	6030.1	6035.2	6060.6	6060.6	6121.5	6157.1	6126.6	6106.3	6101.2	6111.4
22.5°	6294.3	6218.1	6223.1	6329.8	6365.4	6345.1	6319.7	6370.5	6380.6	6340.0	6385.7
25°	6441.6	6522.9	6548.3	6599.1	6522.9	6578.8	6558.4	6655.0	6715.9	6634.6	6690.5
27.5°	6827.7	6792.1	6858.2	6853.1	6914.0	6858.2	6893.7	6924.2	6949.6	6954.7	6929.3
30°	7173.1	7188.4	7122.3	7300.1	7157.9	7249.3	7310.3	7325.5	7356.0	7356.0	7279.8
32.5°	7538.9	7508.4	7615.1	7574.5	7549.1	7620.2	7554.1	7762.4	7640.5	7711.6	7625.3
35°	7950.4	7950.4	7991.0	8102.8	7950.4	7904.7	8026.6	8112.9	8112.9	7985.9	8016.4
37.5°	8412.7	8372.0	8422.8	8565.1	8448.2	8295.8	8519.4	8554.9	8529.5	8494.0	8433.0
40°	8737.8	8727.6	8829.2	9017.2	8849.6	8819.1	8859.7	8956.2	8986.7	9022.3	8941.0
42.5°	9286.5	9332.2	9626.8	9581.1	9443.9	9337.3	9327.1	9687.8	9601.4	9510.0	9464.3
45°	10099.3	10058.6	10211.0	10216.1	10038.3	9804.6	9855.4	10185.6	10333.0	10129.8	10206.0
47.5°	10744.5	10764.8	10871.5	11089.9	10678.4	10434.6	10622.5	11155.9	11110.2	11034.0	11105.1
50°	11608.1	11699.5	12034.8	11958.6	11592.8	11293.1	11704.6	12207.5	12263.4	11984.0	11933.2
52.5°	12801.9	12944.1	13127.0	13188.0	12837.5	12730.8	12756.2	13381.0	13243.9	12974.6	12801.9
55°	13848.4	13914.4	14249.7	14752.7	14727.3	14214.2	14508.8	14742.5	14183.7	13630.0	13675.7
57.5°	14295.5	14325.9	15260.7	16266.5	16866.0	16982.8	16647.5	15860.1	14529.1	13462.3	13396.3
60°	13182.9	13472.5	14600.3	16871.1	19609.3	20960.6	18730.4	15987.1	13721.4	12426.0	12329.4
62.5°	10536.2	10551.4	12227.8	15672.2	21316.2	24857.0	19528.0	14793.3	11567.4	10099.3	9713.2
64°	7503.3	7645.6	9570.9	13873.8	20960.6	26442.0	19431.5	13233.7	9535.4	7452.5	7183.3
65°	5384.9	5583.1	7442.4	12045.0	20127.4	26254.1	19141.9	11892.6	7711.6	5689.7	5415.4
67.5°	1981.2	2062.5	2921.1	6025.0	14452.9	22372.8	15169.2	6538.1	3388.4	2413.1	2169.2
70°	919.5	924.6	1082.1	1991.4	6319.7	14960.9	7239.2	2453.7	1275.1	1010.9	939.8
72.5°	675.7	690.9	756.9	919.5	1859.3	6334.9	2377.5	1005.9	746.8	660.4	645.2
75°	548.7	558.8	579.1	665.5	858.5	1696.8	965.2	696.0	594.4	533.4	513.1
77.5°	421.6	421.6	467.4	508.0	569.0	792.5	640.1	553.7	482.6	421.6	406.4
80°	304.8	309.9	365.8	396.2	386.1	523.3	462.3	457.2	396.2	330.2	304.8
82.5°	177.8	193.0	264.2	284.5	274.3	309.9	335.3	355.6	309.9	228.6	208.3
85°	101.6	106.7	152.4	157.5	157.5	147.3	193.0	213.4	208.3	142.2	127.0
87.5°	30.5	30.5	40.6	40.6	45.7	50.8	76.2	91.4	101.6	71.1	66.0
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8	5186.8
2.5°	5268.1	5191.9	5197.0	5217.3	5151.2	5176.6	5252.8	5197.0	5181.7	5151.2	5136.0
5°	5242.7	5324.0	5293.5	5303.6	5288.4	5217.3	5207.1	5252.8	5278.2	5232.5	5324.0
7.5°	5420.5	5384.9	5344.3	5359.5	5324.0	5384.9	5425.6	5334.1	5379.8	5354.4	5303.6
10°	5522.1	5456.0	5486.5	5476.4	5451.0	5511.9	5471.3	5461.1	5420.5	5364.6	5445.9
12.5°	5557.6	5633.9	5684.7	5598.3	5613.5	5583.1	5557.6	5557.6	5511.9	5496.7	5511.9
15°	5715.1	5781.2	5760.9	5826.9	5740.5	5771.0	5801.5	5725.3	5765.9	5654.2	5740.5
17.5°	6004.7	5948.8	6019.9	5933.6	5964.1	6025.0	5928.5	5928.5	5959.0	5898.0	5821.8
20°	6187.6	6162.2	6136.8	6141.9	6091.1	6146.9	6116.5	6101.2	6055.5	6075.8	6116.5
22.5°	6360.3	6324.7	6334.9	6350.1	6385.7	6360.3	6345.1	6360.3	6248.5	6350.1	6207.9
25°	6573.7	6670.2	6639.7	6705.8	6604.2	6670.2	6665.1	6568.6	6629.6	6588.9	6558.4
27.5°	6929.3	6878.5	6924.2	6842.9	6914.0	6919.1	6858.2	7020.7	6949.6	6939.4	6919.1
30°	7386.5	7350.9	7320.5	7274.7	7330.6	7284.9	7335.7	7350.9	7284.9	7234.1	7137.6
32.5°	7645.6	7742.1	7777.7	7665.9	7671.0	7696.4	7650.7	7604.9	7645.6	7660.8	7645.6
35°	8011.3	8102.8	8123.1	8036.7	7991.0	8118.0	8026.6	8179.0	8046.9	8052.0	7914.8
37.5°	8438.1	8463.5	8636.2	8539.7	8499.0	8438.1	8605.7	8585.4	8615.9	8372.0	8494.0
40°	8920.7	9012.1	9108.7	8864.8	8859.7	8915.6	8905.4	9022.3	8966.4	8930.8	8844.5
42.5°	9449.0	9642.1	9657.3	9494.7	9393.1	9383.0	9433.8	9692.9	9697.9	9464.3	9362.7
45°	10150.1	10363.4	10307.6	9992.6	9880.8	9865.6	10114.5	10226.3	10322.8	10231.4	10145.0
47.5°	11023.9	11166.1	11125.5	10835.9	10475.2	10576.8	10820.7	11171.2	11069.6	10947.7	10846.1
50°	11958.6	12126.2	12039.9	11750.3	11404.9	11404.9	11704.6	12151.6	12121.2	11882.4	11791.0
52.5°	12994.9	13238.8	13436.9	13025.4	12735.9	12781.6	13254.0	13416.6	13340.4	13172.7	13096.5
55°	13767.1	14234.5	14640.9	14661.2	14676.5	14671.4	14793.3	14955.9	14412.3	14143.1	13868.7
57.5°	13579.2	14463.1	15855.1	16800.0	17079.4	17226.7	17186.0	16434.2	15148.9	14265.0	14356.4
60°	12238.0	13680.8	15926.2	18959.0	20991.0	20787.8	20046.1	17074.3	14742.5	13248.9	13061.0
62.5°	9764.0	11501.4	14732.3	19568.6	25166.9	25105.9	21224.7	15596.0	12283.7	10393.9	10277.1
64°	7356.0	9184.9	13142.3	19411.1	26630.0	26690.9	20925.0	13777.3	9611.6	7356.0	7178.2
65°	5628.8	7325.5	11582.7	19086.0	26315.0	26350.6	20091.9	11897.6	7305.2	5222.4	5029.3
67.5°	2240.3	3119.2	6284.1	14473.3	22596.4	22499.8	14336.1	5755.8	2794.1	1818.7	1783.1
70°	955.1	1188.7	2204.8	6858.2	15128.6	14849.2	6172.3	1869.5	1036.3	868.7	863.6
72.5°	655.3	726.5	944.9	2118.4	6289.2	6141.9	1757.7	868.7	706.1	650.3	650.3
75°	528.3	579.1	685.8	889.0	1666.3	1605.3	828.1	640.1	563.9	523.3	518.2
77.5°	411.5	462.3	538.5	614.7	762.0	756.9	553.7	482.6	436.9	406.4	396.2
80°	325.1	375.9	426.7	436.9	497.9	487.7	375.9	381.0	355.6	294.6	289.6
82.5°	223.5	304.8	340.4	309.9	294.6	294.6	269.2	269.2	248.9	182.9	167.6
85°	137.2	203.2	213.4	182.9	137.2	137.2	147.3	142.2	132.1	96.5	91.4
87.5°	71.1	96.5	86.4	71.1	45.7	45.7	40.6	30.5	30.5	25.4	25.4
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)