

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: P479476

Luminaire Tested: **IFLD-L-SA8D-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479476
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

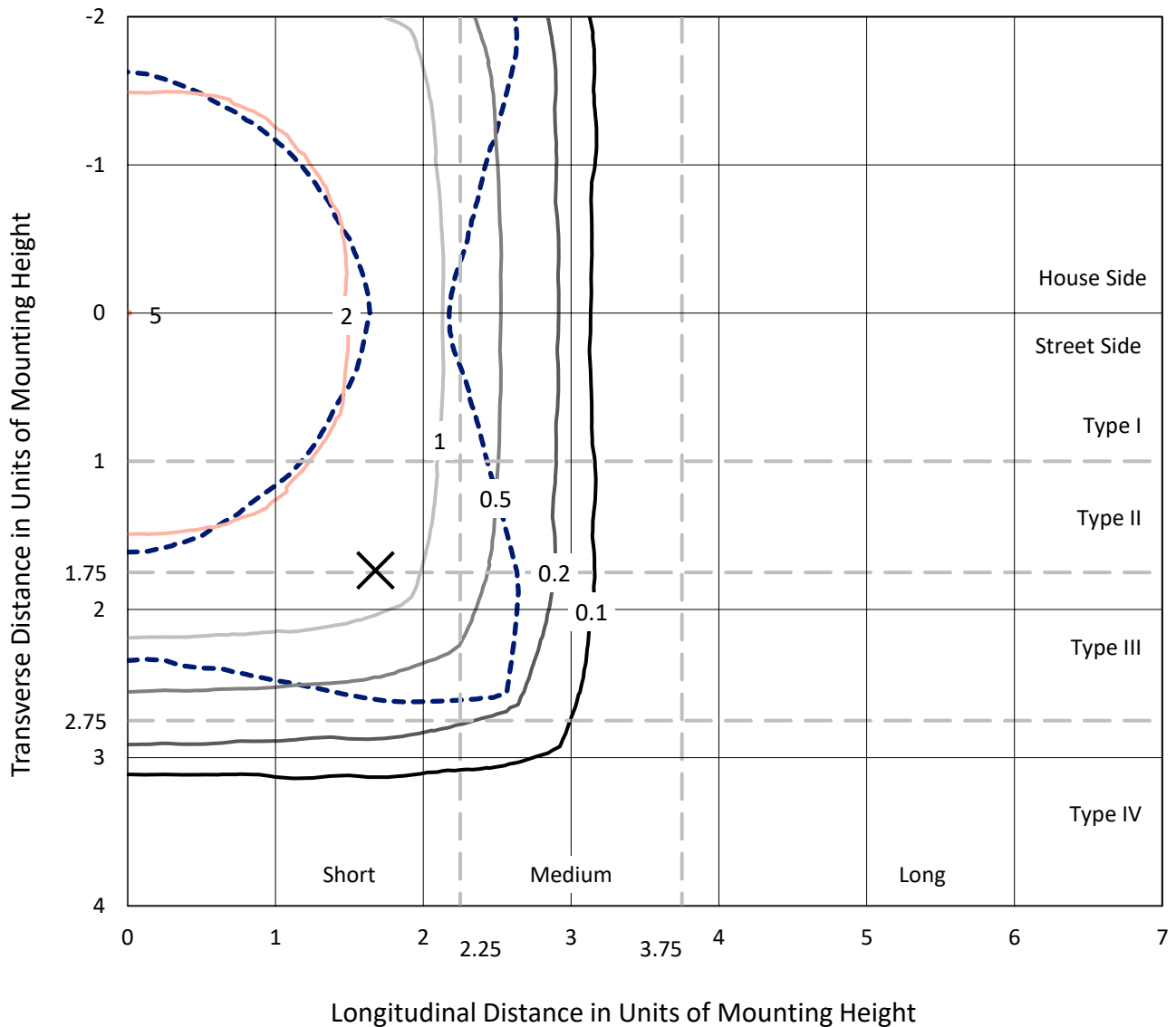
Lumens per Lamp: N/A
Luminaire Lumens: 41365.7 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 488.3
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

REPORT NUMBER: P479476
 CATALOG NUMBER: IFLD-L-SA8D-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

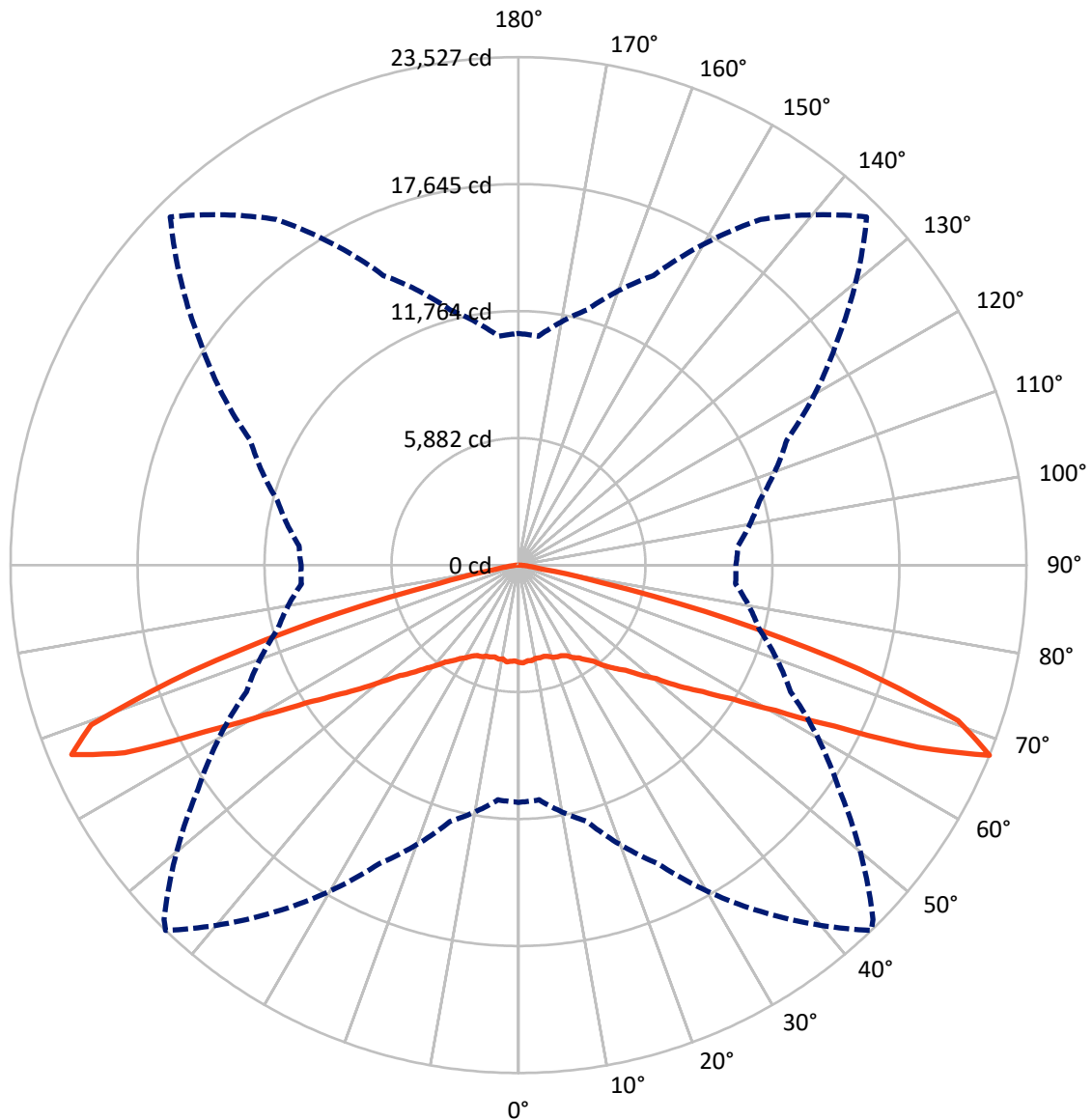
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

REPORT NUMBER: P479476
CATALOG NUMBER: IFLD-L-SA8D-827-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479476

CATALOG NUMBER: IFLD-L-SA8D-827-U-5MQ

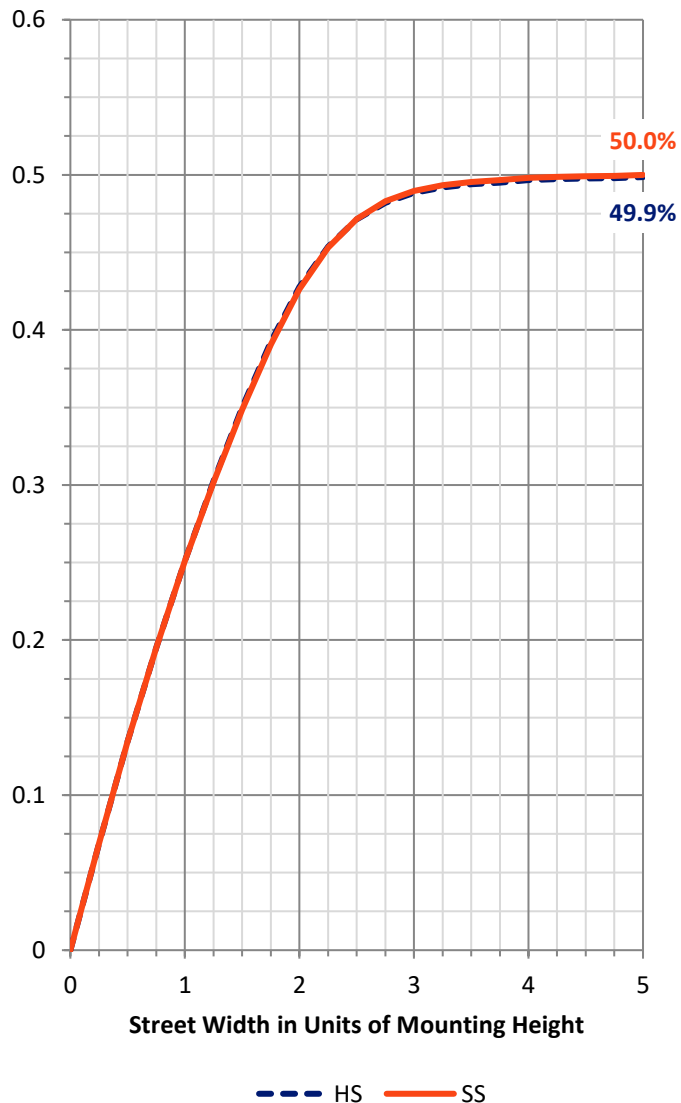
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20629.9	0.0	20629.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	20735.8	0.0	20735.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	41365.7	0.0	41365.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.6	1.0
10°-20°	1249.2	3.0
20°-30°	2124.3	5.1
30°-40°	3368.1	8.1
40°-50°	5492.1	13.3
50°-60°	9379.7	22.7
60°-70°	14266.4	34.5
70°-80°	4808.7	11.6
80°-90°	249.7	0.6
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°	41365.7	100.0
0°-180°	41365.7	100.0

Coefficient of Utilization



REPORT NUMBER: P479476

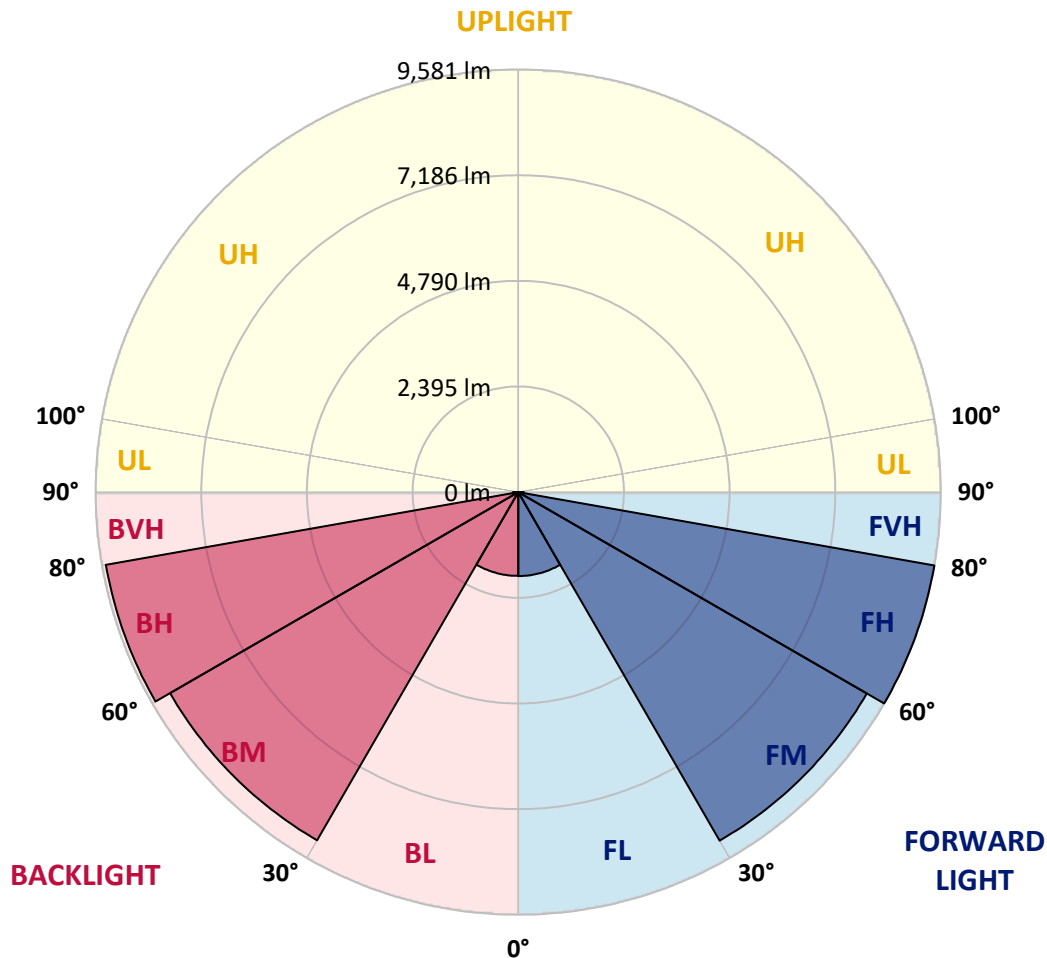
CATALOG NUMBER: IFLD-L-SA8D-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.5	4.6			
FM (30°-60°)	9124.9	22.1			
FH (60°-80°)	9580.7	23.2			G4/12000
FVH (80°-90°)	127.7	0.3			G2/225
BL (0°-30°)	1898.6	4.6	B3/2500		
BM (30°-60°)	9115.0	22.0	B5		
BH (60°-80°)	9494.3	23.0	B5		G4/12000
BVH (80°-90°)	121.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P479476
 CATALOG NUMBER: IFLD-L-SA8D-827-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5
2.5°	4414.6	4466.5	4504.3	4499.6	4513.8	4527.9	4509.0	4537.4	4518.5	4551.5	4570.4
5°	4499.6	4485.4	4490.2	4461.8	4527.9	4452.4	4452.4	4490.2	4537.4	4480.7	4513.8
7.5°	4447.7	4438.2	4414.6	4457.1	4471.3	4471.3	4509.0	4438.2	4518.5	4537.4	4542.1
10°	4391.0	4339.1	4409.9	4452.4	4461.8	4386.3	4419.3	4438.2	4414.6	4438.2	4452.4
12.5°	4343.8	4372.1	4372.1	4372.1	4358.0	4409.9	4442.9	4438.2	4391.0	4433.5	4358.0
15°	4339.1	4324.9	4367.4	4405.2	4381.6	4391.0	4405.2	4447.7	4358.0	4376.8	4376.8
17.5°	4334.3	4353.2	4367.4	4362.7	4442.9	4442.9	4428.8	4400.4	4471.3	4433.5	4381.6
20°	4353.2	4339.1	4376.8	4391.0	4447.7	4561.0	4518.5	4494.9	4457.1	4409.9	4409.9
22.5°	4376.8	4367.4	4419.3	4480.7	4589.3	4617.6	4612.9	4584.6	4518.5	4461.8	4452.4
25°	4461.8	4376.8	4433.5	4551.5	4589.3	4646.0	4683.7	4646.0	4556.3	4570.4	4485.4
27.5°	4589.3	4575.1	4650.7	4731.0	4697.9	4749.8	4716.8	4745.1	4749.8	4679.0	4594.0
30°	4740.4	4697.9	4745.1	4900.9	4915.1	4971.8	4915.1	4839.5	4863.2	4801.8	4759.3
32.5°	4957.6	4943.4	5033.1	5137.0	5155.9	5127.6	5099.2	5141.7	5042.6	4995.4	4919.8
35°	5099.2	5160.6	5269.2	5349.5	5410.9	5382.5	5396.7	5354.2	5377.8	5278.6	5245.6
37.5°	5519.4	5495.8	5519.4	5656.4	5670.5	5656.4	5670.5	5717.7	5684.7	5599.7	5514.7
40°	5916.1	5878.3	5934.9	6090.7	6081.3	6128.5	6034.1	6086.0	6086.0	5925.5	5892.4
42.5°	6213.5	6341.0	6407.1	6534.6	6581.8	6539.3	6520.4	6529.8	6633.7	6444.9	6374.0
45°	6827.3	6822.6	7020.9	7091.7	6959.5	6950.1	6912.3	7025.6	7096.4	6987.8	6959.5
47.5°	7493.0	7526.1	7639.4	7667.7	7748.0	7601.6	7601.6	7615.8	7866.0	7611.1	7478.9
50°	8092.7	8135.2	8361.8	8583.7	8432.6	8276.8	8338.2	8413.7	8550.7	8309.9	8196.5
52.5°	8819.8	9051.1	9202.2	9320.3	9428.9	9320.3	9178.6	9263.6	9532.7	9211.7	9070.0
55°	9868.0	10052.1	10193.7	10410.9	10500.6	10354.3	10340.1	10330.7	10481.8	10141.8	9948.2
57.5°	11038.9	10963.3	11190.0	11525.2	11851.0	11709.3	11666.9	11676.3	11714.1	11232.5	11086.1
60°	12493.1	12578.1	12847.2	13140.0	13484.6	13682.9	13404.4	13243.8	13276.9	12620.6	12394.0
62.5°	13324.1	13513.0	14122.0	15127.7	15821.8	16440.3	16482.8	15439.3	14740.6	13465.7	12502.6
65°	12922.8	12894.4	14041.8	15902.0	18531.9	20330.8	20061.7	17531.0	15089.9	13064.4	11770.7
67.5°	10991.7	10916.1	12304.3	15255.2	19599.0	23527.3	23220.4	18121.2	13909.6	11558.3	10094.6
70°	7082.3	7063.4	8569.5	11629.1	17497.9	21600.9	21714.2	16459.2	11322.2	8465.7	7016.2
72.5°	2573.2	2729.0	3602.5	6251.3	11884.0	16525.3	16596.1	12186.2	6511.0	3914.1	2884.8
75°	949.0	977.4	1137.9	2030.2	5415.6	10146.5	10410.9	5911.3	2313.5	1274.8	1038.7
77.5°	547.7	552.4	609.1	755.4	1605.3	3961.3	4121.9	1794.2	897.1	679.9	628.0
80°	373.0	368.3	429.7	491.0	642.1	1123.7	1194.5	750.7	566.6	472.2	396.6
82.5°	217.2	231.4	316.3	349.4	391.9	495.8	505.2	467.4	424.9	349.4	259.7
85°	132.2	108.6	174.7	193.6	226.6	221.9	221.9	255.0	273.8	245.5	146.4
87.5°	33.1	33.1	42.5	47.2	61.4	47.2	51.9	99.2	132.2	122.8	75.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479476
 CATALOG NUMBER: IFLD-L-SA8D-827-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5	4518.5
2.5°	4527.9	4513.8	4523.2	4575.1	4542.1	4442.9	4466.5	4518.5	4476.0	4452.4	4447.7
5°	4509.0	4537.4	4504.3	4513.8	4546.8	4466.5	4480.7	4546.8	4518.5	4527.9	4476.0
7.5°	4513.8	4527.9	4499.6	4457.1	4457.1	4523.2	4485.4	4494.9	4452.4	4523.2	4428.8
10°	4485.4	4447.7	4414.6	4438.2	4428.8	4409.9	4395.7	4424.1	4381.6	4442.9	4376.8
12.5°	4400.4	4409.9	4400.4	4391.0	4409.9	4457.1	4381.6	4391.0	4324.9	4334.3	4367.4
15°	4367.4	4395.7	4386.3	4438.2	4461.8	4391.0	4447.7	4391.0	4339.1	4310.7	4362.7
17.5°	4381.6	4424.1	4409.9	4447.7	4405.2	4457.1	4466.5	4442.9	4381.6	4358.0	4381.6
20°	4395.7	4381.6	4400.4	4466.5	4527.9	4476.0	4476.0	4461.8	4405.2	4372.1	4372.1
22.5°	4428.8	4405.2	4433.5	4485.4	4504.3	4584.6	4513.8	4480.7	4386.3	4301.3	4381.6
25°	4494.9	4509.0	4527.9	4509.0	4612.9	4603.5	4594.0	4570.4	4424.1	4428.8	4414.6
27.5°	4622.4	4542.1	4565.7	4679.0	4693.2	4731.0	4683.7	4726.2	4570.4	4575.1	4480.7
30°	4778.2	4693.2	4768.7	4867.9	4863.2	4934.0	4910.4	4919.8	4811.2	4749.8	4622.4
32.5°	4948.1	4938.7	4985.9	5047.3	5070.9	5108.7	5104.0	5104.0	5037.9	4877.3	4900.9
35°	5137.0	5203.1	5259.8	5325.9	5335.3	5382.5	5316.4	5325.9	5259.8	5141.7	5179.5
37.5°	5510.0	5505.3	5566.7	5646.9	5656.4	5618.6	5670.5	5646.9	5557.2	5477.0	5415.6
40°	5944.4	5850.0	5906.6	6095.5	6109.6	6043.5	6038.8	6034.1	5968.0	5793.3	5755.5
42.5°	6322.1	6444.9	6435.4	6496.8	6454.3	6421.3	6539.3	6473.2	6421.3	6237.1	6204.1
45°	6808.4	6846.2	6968.9	7167.3	6964.2	6964.2	7044.5	6992.6	6964.2	6827.3	6699.8
47.5°	7412.8	7445.8	7691.3	7705.5	7573.3	7483.6	7733.8	7743.3	7625.2	7521.4	7365.6
50°	8121.0	8135.2	8357.1	8583.7	8437.3	8267.4	8522.3	8621.5	8357.1	8215.4	8021.8
52.5°	8900.0	8857.6	9041.7	9466.6	9325.0	9273.0	9546.9	9570.5	9211.7	8989.8	9041.7
55°	9797.1	9740.5	10241.0	10529.0	10439.3	10344.8	10467.6	10524.2	10236.2	9872.7	10000.2
57.5°	10958.6	10987.0	11237.2	11520.5	11666.9	11690.5	11747.1	11690.5	11397.7	11029.4	10911.4
60°	12120.1	12205.1	12691.4	13225.0	13272.2	13687.7	13612.1	13328.8	12913.3	12389.2	12412.9
62.5°	12549.8	12479.0	13262.7	14565.9	15675.4	16435.6	16100.4	15094.7	14131.5	13177.7	13248.6
65°	11685.7	11860.4	12927.5	14967.2	17375.2	20382.8	18598.0	15817.1	13871.8	12639.5	12502.6
67.5°	10071.0	10203.2	11558.3	13711.3	17984.2	22809.6	19542.3	14797.2	12233.4	10637.6	10722.6
70°	7016.2	7082.3	8409.0	11232.5	16308.1	21525.4	17630.1	11364.7	8446.8	6732.9	6827.3
72.5°	2823.5	2984.0	3857.5	6765.9	12039.9	16355.3	11869.9	5963.3	3503.4	2606.3	2365.5
75°	1043.5	1048.2	1232.3	2327.7	5717.7	10278.7	5354.2	1916.9	1119.0	916.0	873.5
77.5°	604.4	599.6	642.1	840.4	1657.3	4013.3	1520.3	750.7	609.1	547.7	524.1
80°	377.7	373.0	439.1	557.1	727.1	1100.1	642.1	467.4	410.8	354.1	354.1
82.5°	240.8	245.5	344.7	410.8	443.8	486.3	373.0	330.5	306.9	203.0	198.3
85°	155.8	141.6	240.8	273.8	245.5	217.2	207.7	174.7	160.5	99.2	108.6
87.5°	70.8	75.5	122.8	136.9	89.7	51.9	51.9	37.8	37.8	23.6	23.6
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)