

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: P484731

Luminaire Tested: **IFLD-M-SA4D-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484731
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

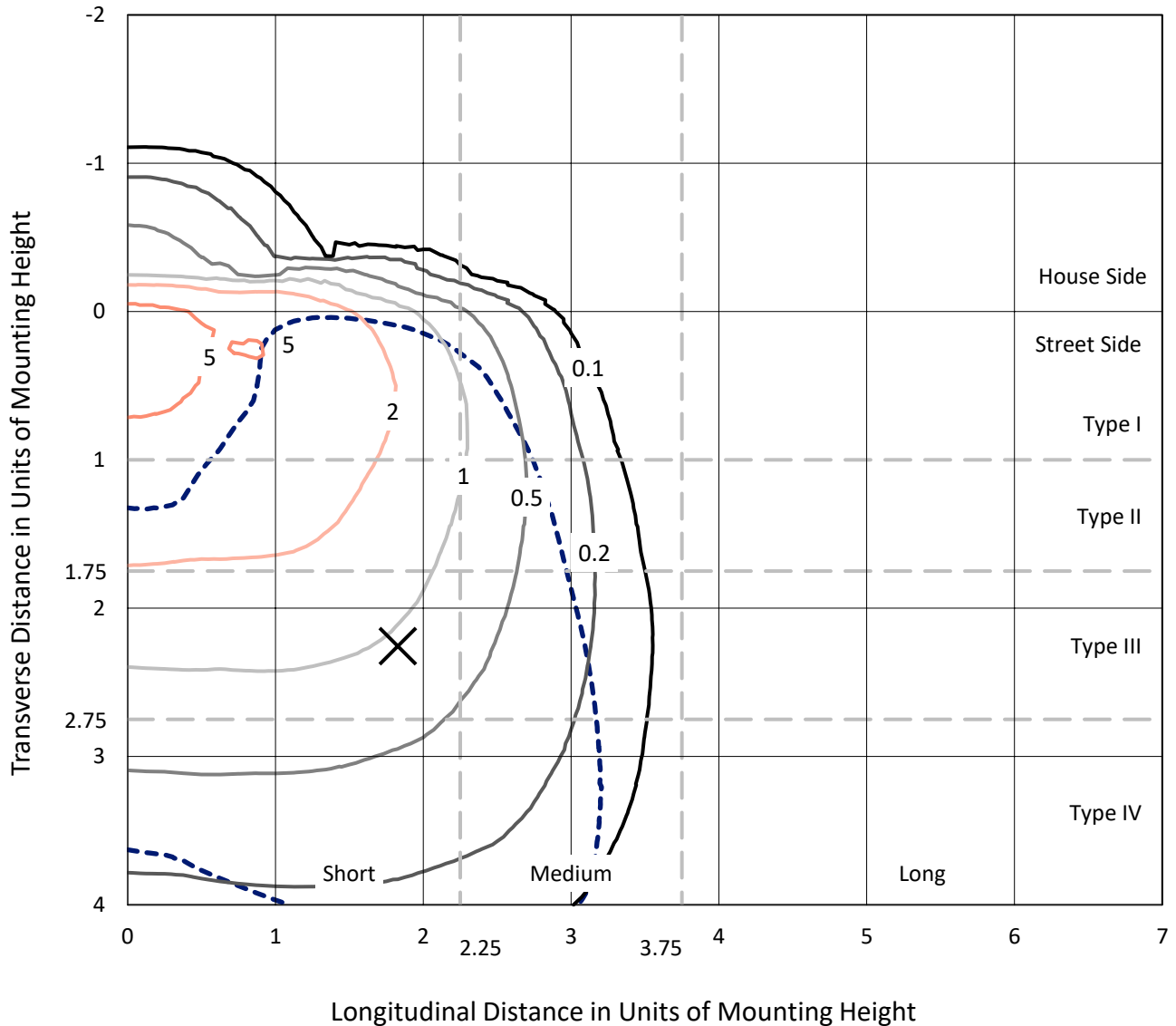
Lumens per Lamp: N/A
Luminaire Lumens: 23533.7 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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: P484731
 CATALOG NUMBER: IFLD-M-SA4D-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

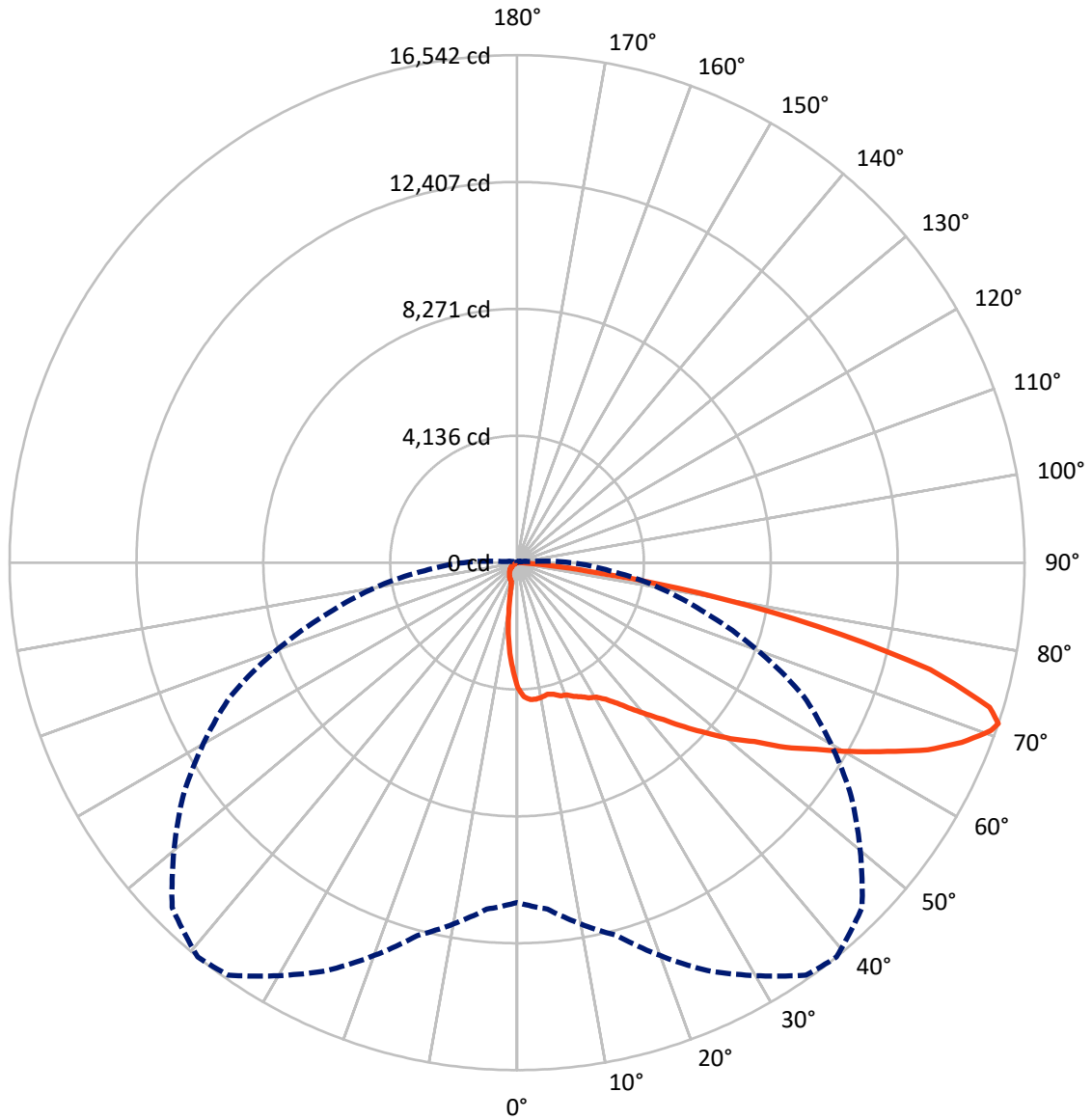
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P484731
CATALOG NUMBER: IFLD-M-SA4D-730-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484731
 CATALOG NUMBER: IFLD-M-SA4D-730-U-SL4-HSS

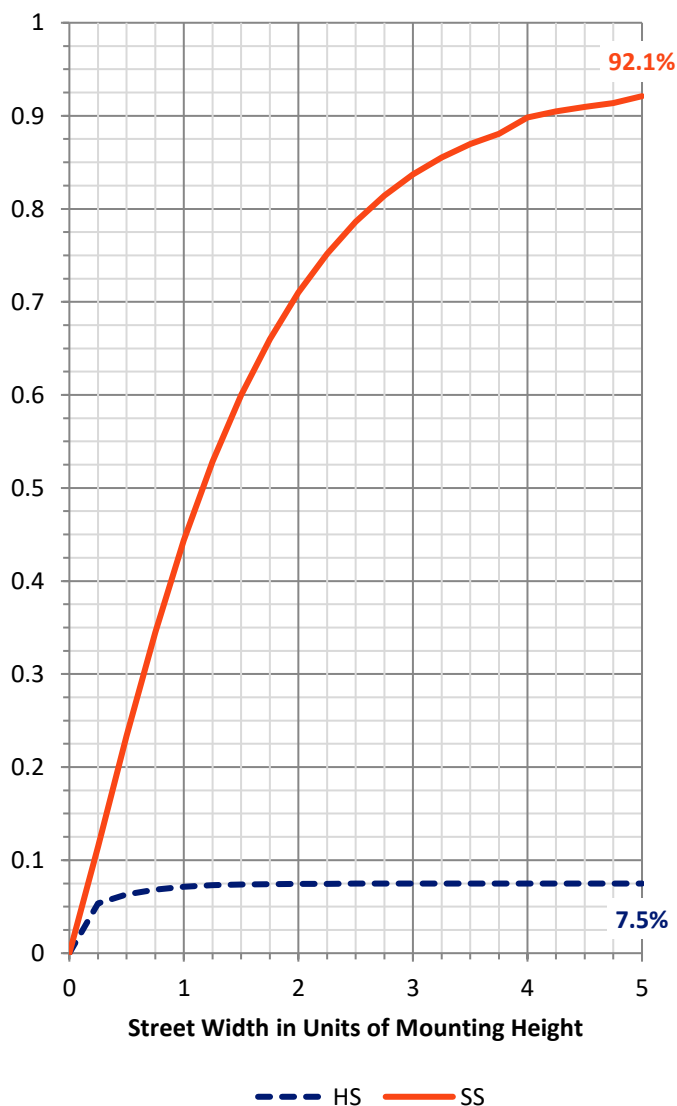
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1771.7	0.0	1771.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21762.0	0.0	21762.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	23533.7	0.0	23533.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.5	1.5
10°-20°	842.9	3.6
20°-30°	1353.2	5.8
30°-40°	2071.4	8.8
40°-50°	3325.0	14.1
50°-60°	4883.9	20.8
60°-70°	6151.0	26.1
70°-80°	4105.1	17.4
80°-90°	458.8	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°	23533.7	100.0
0°-180°	23533.7	100.0

Coefficient of Utilization



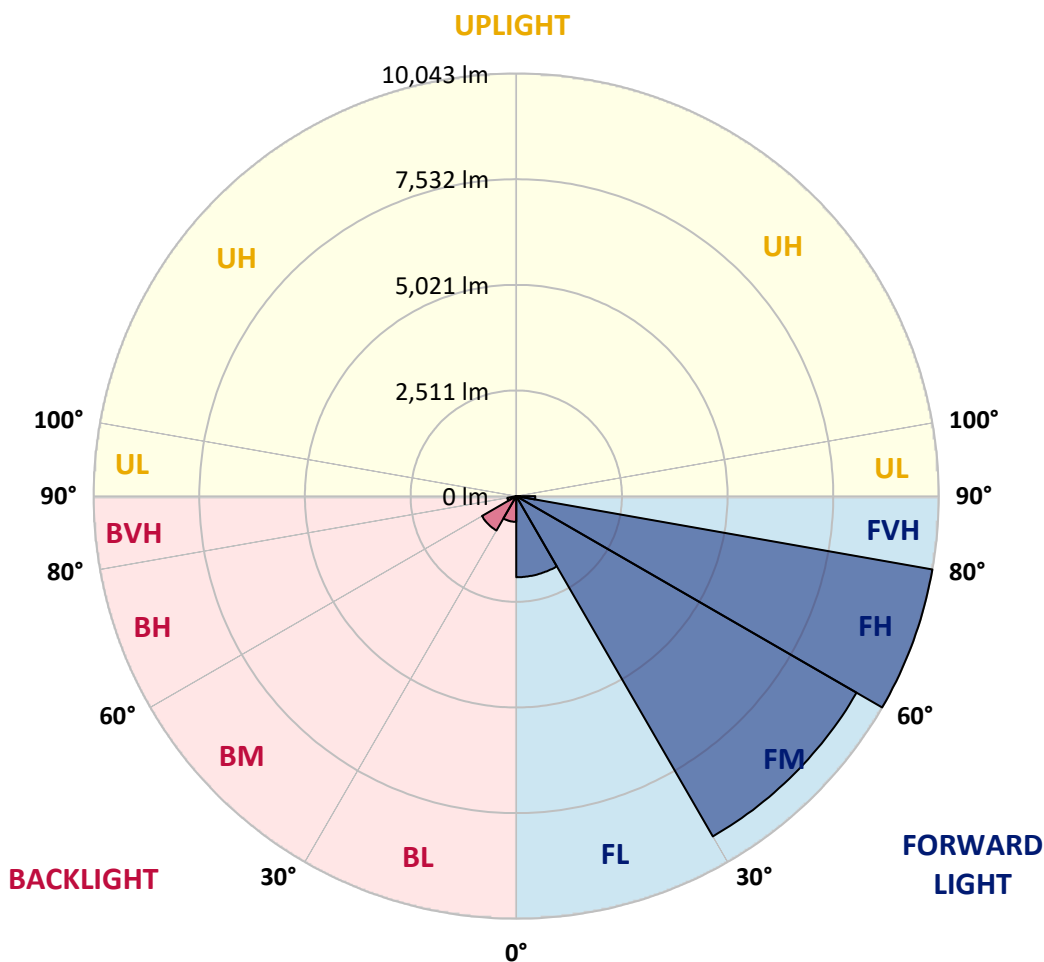
REPORT NUMBER: P484731
 CATALOG NUMBER: IFLD-M-SA4D-730-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1926.9	8.2			
FM (30°-60°)	9338.5	39.7			
FH (60°-80°)	10042.9	42.7			G4/12000
FVH (80°-90°)	453.7	1.9			G3/500
BL (0°-30°)	611.7	2.6	B2/1000		
BM (30°-60°)	941.7	4.0	B1/1000		
BH (60°-80°)	213.2	0.9	B1/500		G1/500
BVH (80°-90°)	5.1	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-G4

Type IV Short





REPORT NUMBER: P484731

CATALOG NUMBER: IFLD-M-SA4D-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2
2.5°	4414.1	4457.4	4414.1	4395.6	4377.1	4380.2	4330.8	4340.1	4281.4	4204.2	4142.5
5°	4553.0	4611.7	4565.4	4543.8	4540.7	4482.0	4457.4	4398.7	4327.7	4207.3	4133.2
7.5°	4540.7	4528.3	4550.0	4531.4	4491.3	4491.3	4463.5	4380.2	4309.2	4173.4	4046.8
10°	4448.1	4485.1	4466.6	4445.0	4454.3	4457.4	4404.9	4346.2	4324.6	4188.8	3982.0
12.5°	4438.8	4377.1	4445.0	4448.1	4408.0	4404.9	4398.7	4383.3	4315.4	4191.9	3997.4
15°	4408.0	4383.3	4451.2	4454.3	4463.5	4454.3	4463.5	4451.2	4383.3	4312.3	4065.3
17.5°	4432.7	4404.9	4500.6	4546.9	4525.3	4568.5	4553.0	4497.5	4438.8	4355.5	4130.2
20°	4438.8	4479.0	4583.9	4602.4	4670.3	4599.3	4596.3	4537.6	4500.6	4411.1	4170.3
22.5°	4553.0	4571.6	4701.2	4741.3	4744.4	4735.2	4658.0	4590.1	4574.7	4463.5	4179.5
25°	4725.9	4790.7	4849.4	4874.1	4883.3	4840.1	4759.9	4673.4	4636.4	4565.4	4275.2
27.5°	5031.5	4991.4	5043.8	5080.9	4975.9	4991.4	4889.5	4815.4	4762.9	4701.2	4386.4
30°	5303.1	5266.1	5269.2	5263.0	5173.5	5090.1	5062.4	4932.7	4867.9	4892.6	4559.2
32.5°	5547.0	5466.7	5534.6	5503.8	5337.1	5312.4	5290.8	5127.2	5139.5	5253.7	4818.5
35°	5772.3	5744.6	5800.1	5744.6	5633.4	5627.3	5605.6	5463.7	5531.6	5695.2	5263.0
37.5°	5979.1	5988.4	6056.3	6028.5	6037.8	6044.0	6031.6	5880.4	6074.8	6442.2	5781.6
40°	6170.5	6158.2	6324.9	6411.3	6429.8	6497.7	6497.7	6460.7	6760.1	7173.7	6500.8
42.5°	6374.3	6405.1	6621.2	6766.3	6942.2	7000.9	7081.1	7099.7	7562.7	8035.0	7235.5
45°	6707.6	6655.2	6929.9	7272.5	7426.9	7633.7	7757.2	7862.1	8420.8	9069.0	7970.1
47.5°	7130.5	7025.6	7266.3	7763.3	8121.4	8291.2	8513.4	8652.3	9198.7	9868.5	8664.7
50°	7599.7	7491.7	7609.0	8294.3	8711.0	9019.7	9303.6	9479.6	10140.2	10763.7	9170.9
52.5°	8130.7	8031.9	8050.4	8846.8	9461.1	9686.4	10059.9	10322.3	10979.8	11303.9	9349.9
55°	8695.5	8670.8	8612.2	9387.0	10118.6	10624.8	10850.1	11165.0	11841.0	11597.1	9544.4
57.5°	9263.5	9186.3	9269.7	10103.1	11174.2	11476.8	11788.5	11976.8	12319.5	11853.3	9470.3
60°	9797.5	9803.7	9921.0	10881.0	12072.5	12501.6	12782.5	12668.3	12810.3	11964.5	9300.6
62.5°	10248.2	10235.9	10532.2	11754.6	13260.9	13551.1	13761.0	13251.7	13038.7	12072.5	9004.2
65°	10652.6	10791.5	11257.6	12794.8	14378.4	14711.7	14585.2	13804.2	13260.9	11754.6	8170.8
67.5°	10958.2	11165.0	11973.7	13773.3	15403.2	15637.8	15461.8	14224.0	12998.6	10507.5	6655.2
70°	11137.2	11347.1	12486.1	14588.3	16221.2	16391.0	15977.3	13899.9	11467.5	7609.0	4151.8
71°	11081.6	11337.8	12584.9	14674.7	16415.7	16542.2	15900.2	13301.1	10313.0	6371.2	3028.2
72.5°	10578.5	10819.3	12174.4	14613.0	16181.1	16103.9	15298.2	11862.6	8118.3	4062.2	1565.0
75°	7772.6	8031.9	10448.8	12640.5	14443.2	13912.2	12381.2	8325.1	4235.1	1244.0	456.8
77.5°	3870.9	3914.1	6485.4	9177.1	10593.9	10066.1	8297.3	4642.6	1583.5	367.3	228.4
80°	1784.2	1796.5	2432.4	4753.7	6405.1	6028.5	4648.7	2290.4	716.1	194.5	179.0
82.5°	1216.2	1234.7	1466.2	1969.4	2781.2	2346.0	1883.0	1466.2	410.5	117.3	175.9
85°	222.3	203.7	821.1	1043.3	1074.2	728.5	651.3	1268.7	154.3	67.9	154.3
87.5°	0.0	3.1	114.2	426.0	382.8	169.8	222.3	308.7	15.4	21.6	27.8
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: P484731

CATALOG NUMBER: IFLD-M-SA4D-730-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2	4096.2
2.5°	4090.0	4056.1	3941.9	3815.3	3701.1	3611.6	3497.4	3444.9	3361.5	3315.2	3312.1
5°	4031.4	3938.8	3741.2	3528.2	3290.5	3093.0	2873.8	2750.3	2608.4	2565.1	2555.9
7.5°	3932.6	3799.9	3509.7	3210.3	2846.0	2497.2	2228.7	1941.6	1765.7	1691.6	1663.8
10°	3870.9	3710.3	3315.2	2867.6	2358.3	1867.5	1490.9	1185.3	1024.8	947.7	929.1
12.5°	3870.9	3698.0	3157.8	2540.4	1864.4	1277.9	923.0	747.0	694.5	676.0	676.0
15°	3861.6	3673.3	3006.6	2204.0	1379.8	858.1	688.4	651.3	645.1	642.1	639.0
17.5°	3907.9	3630.1	2852.2	1842.8	975.4	676.0	632.8	626.6	620.4	620.4	614.3
20°	3941.9	3605.4	2667.0	1460.1	728.5	626.6	608.1	598.8	595.8	592.7	598.8
22.5°	3914.1	3568.4	2438.6	1092.7	635.9	595.8	583.4	574.1	568.0	568.0	571.1
25°	3966.5	3534.4	2210.2	824.2	595.8	568.0	555.6	549.5	546.4	543.3	537.1
27.5°	4037.5	3549.8	1938.5	663.7	561.8	540.2	527.8	521.7	518.6	512.4	518.6
30°	4124.0	3546.7	1639.1	580.3	530.9	509.3	497.0	493.9	487.7	484.6	487.7
32.5°	4272.1	3627.0	1330.4	537.1	497.0	478.5	466.1	463.0	459.9	456.8	453.8
35°	4590.1	3725.8	1040.3	503.1	466.1	444.5	435.2	429.1	426.0	422.9	419.8
37.5°	4982.1	3944.9	793.3	472.3	435.2	413.6	404.4	401.3	388.9	385.9	382.8
40°	5472.9	4179.5	611.2	438.3	407.5	385.9	376.6	367.3	351.9	345.7	339.5
42.5°	6084.1	4408.0	503.1	407.5	376.6	361.2	345.7	330.3	317.9	305.6	299.4
45°	6695.3	4673.4	441.4	379.7	351.9	333.4	321.0	299.4	277.8	259.3	256.2
47.5°	7204.6	4769.1	404.4	348.8	327.2	311.8	293.2	265.5	234.6	216.1	213.0
50°	7584.3	4713.6	367.3	317.9	299.4	284.0	259.3	225.3	194.5	175.9	169.8
52.5°	7658.4	4469.7	333.4	293.2	271.6	253.1	225.3	188.3	154.3	135.8	132.7
55°	7605.9	4065.3	305.6	271.6	246.9	219.2	188.3	151.3	120.4	101.9	98.8
57.5°	7497.9	3586.9	274.7	243.9	216.1	188.3	154.3	123.5	89.5	71.0	71.0
60°	7130.5	2935.6	243.9	213.0	185.2	160.5	126.6	89.5	61.7	46.3	43.2
62.5°	6618.1	2256.5	213.0	182.1	160.5	132.7	98.8	64.8	37.0	24.7	24.7
65°	5682.8	1580.4	179.0	151.3	132.7	108.0	74.1	40.1	21.6	9.3	9.3
67.5°	4318.4	978.5	148.2	126.6	114.2	86.4	52.5	24.7	9.3	3.1	0.0
70°	2478.7	509.3	117.3	101.9	89.5	64.8	37.0	12.3	6.2	0.0	0.0
71°	1731.7	376.6	105.0	89.5	80.3	58.6	30.9	9.3	3.1	0.0	0.0
72.5°	867.4	250.0	89.5	74.1	64.8	46.3	24.7	9.3	3.1	0.0	0.0
75°	308.7	160.5	61.7	49.4	46.3	34.0	15.4	6.2	3.1	0.0	0.0
77.5°	213.0	129.6	43.2	30.9	30.9	21.6	9.3	3.1	3.1	0.0	0.0
80°	194.5	71.0	27.8	18.5	15.4	12.3	6.2	3.1	0.0	0.0	0.0
82.5°	194.5	52.5	15.4	12.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0
85°	135.8	27.8	9.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	21.6	9.3	6.2	3.1	3.1	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)