

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: P479506

Luminaire Tested: **IFLD-M-SA4E-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479506
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

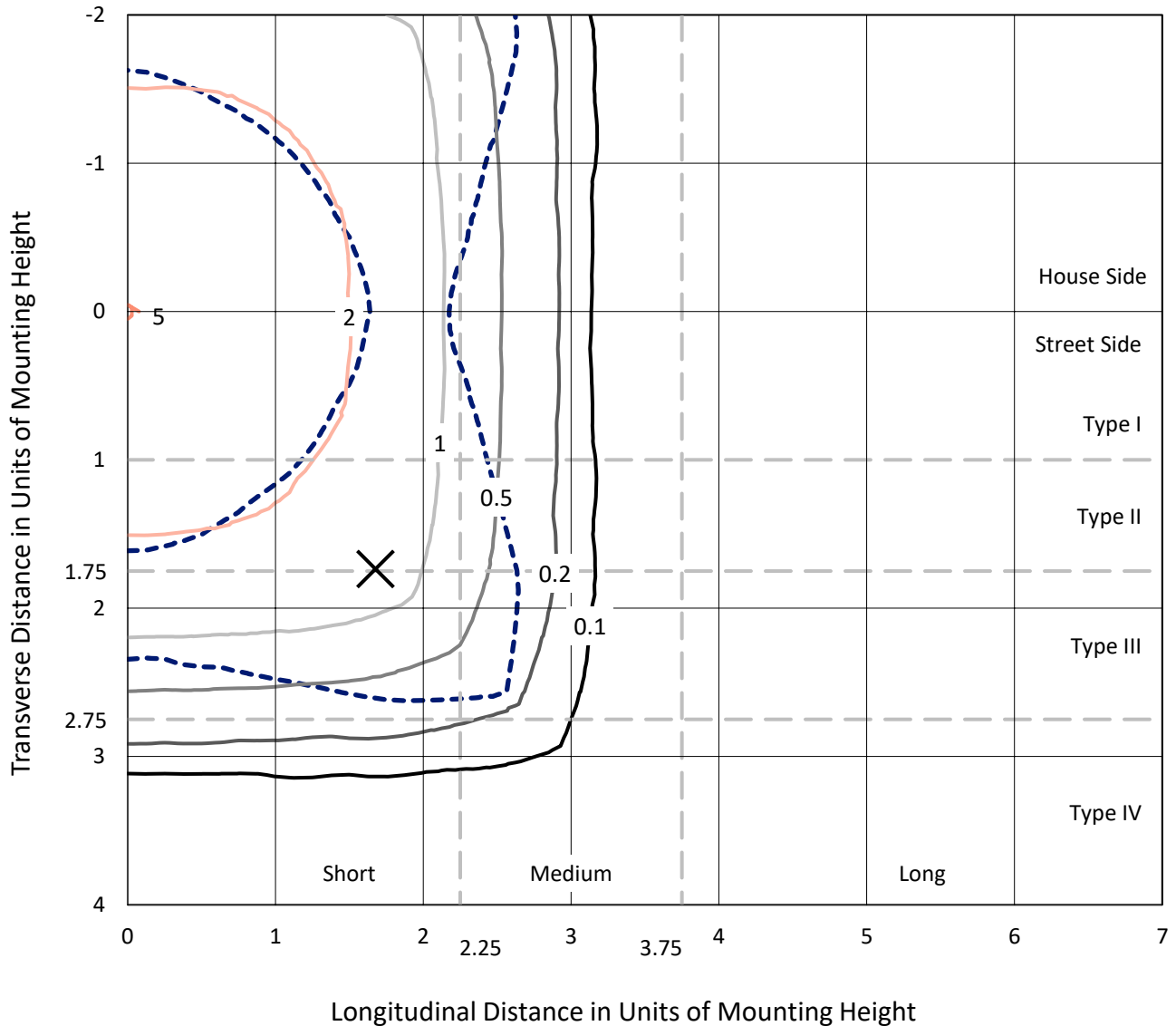
Lumens per Lamp: N/A
Luminaire Lumens: 29038.8 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 314.8
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: P479506
 CATALOG NUMBER: IFLD-M-SA4E-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

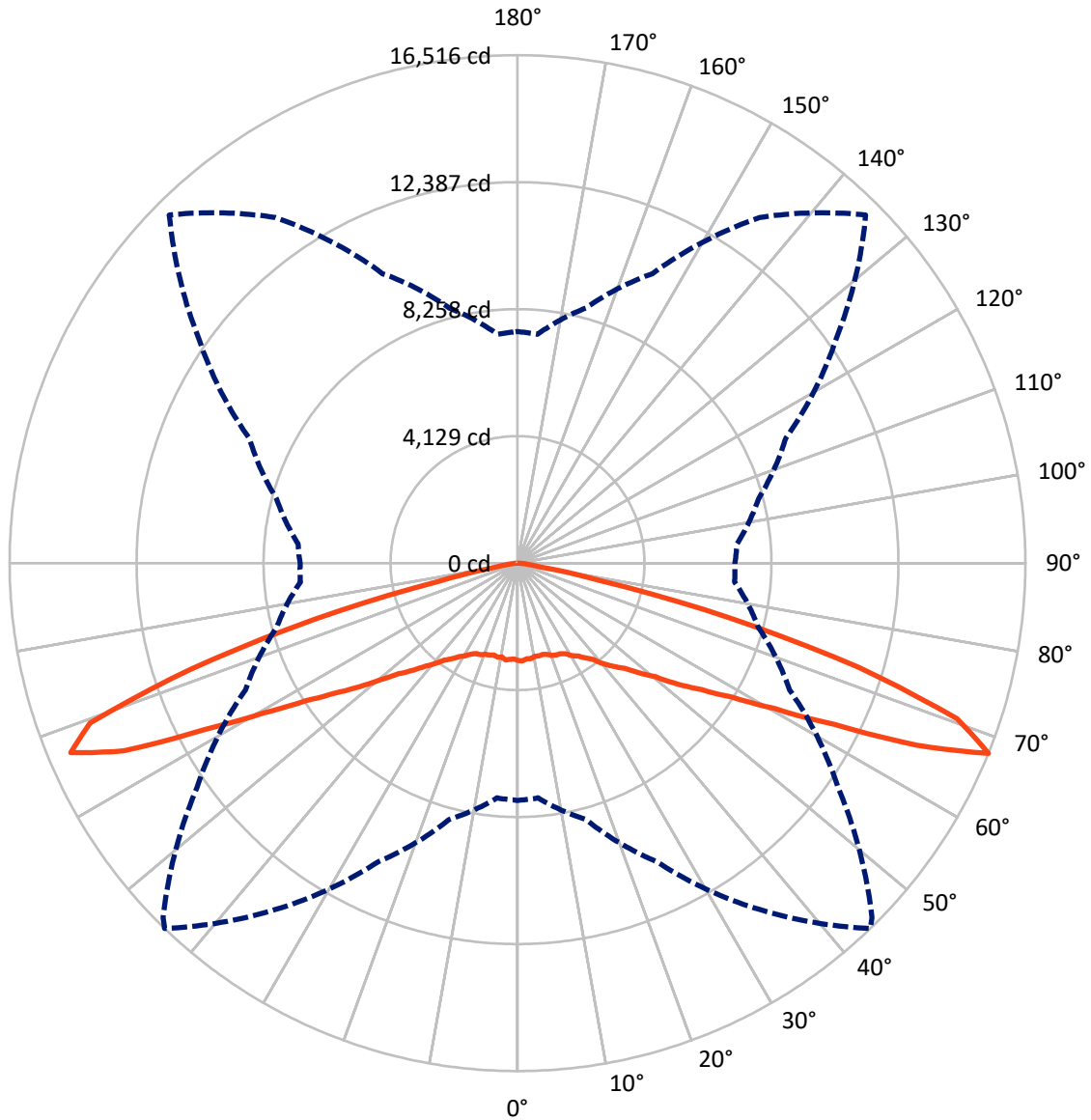
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

REPORT NUMBER: P479506
CATALOG NUMBER: IFLD-M-SA4E-830-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479506
 CATALOG NUMBER: IFLD-M-SA4E-830-U-5MQ

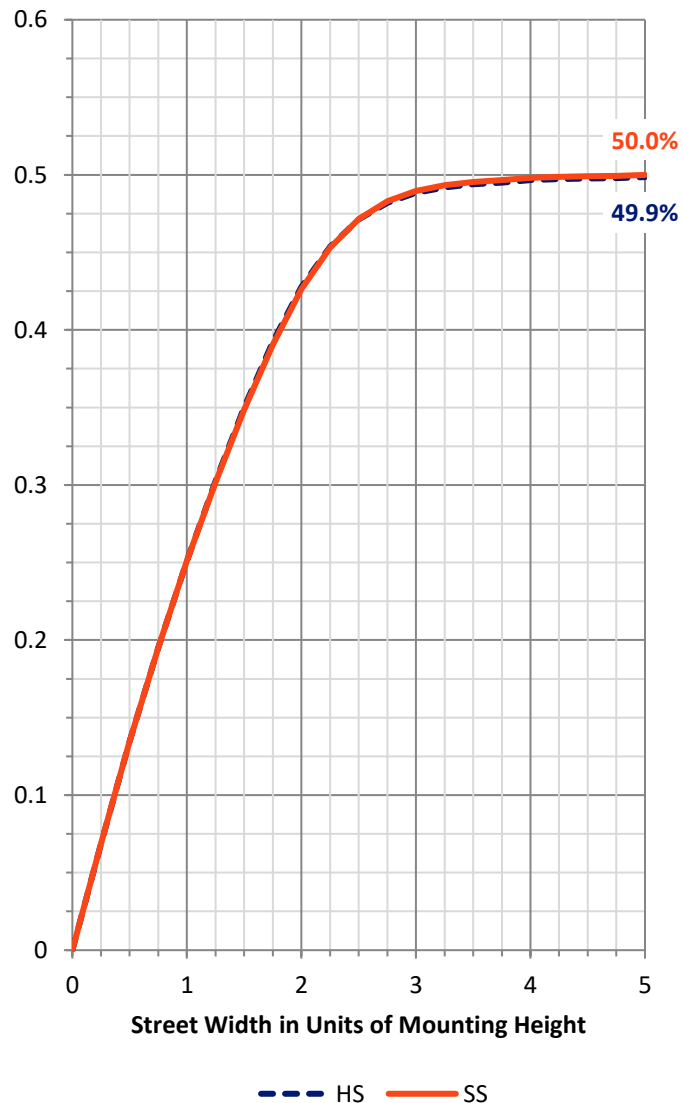
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14482.2	0.0	14482.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	14556.6	0.0	14556.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	29038.8	0.0	29038.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.2	1.0
10°-20°	876.9	3.0
20°-30°	1491.3	5.1
30°-40°	2364.4	8.1
40°-50°	3855.4	13.3
50°-60°	6584.6	22.7
60°-70°	10015.1	34.5
70°-80°	3375.7	11.6
80°-90°	175.3	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°	29038.8	100.0
0°-180°	29038.8	100.0

Coefficient of Utilization



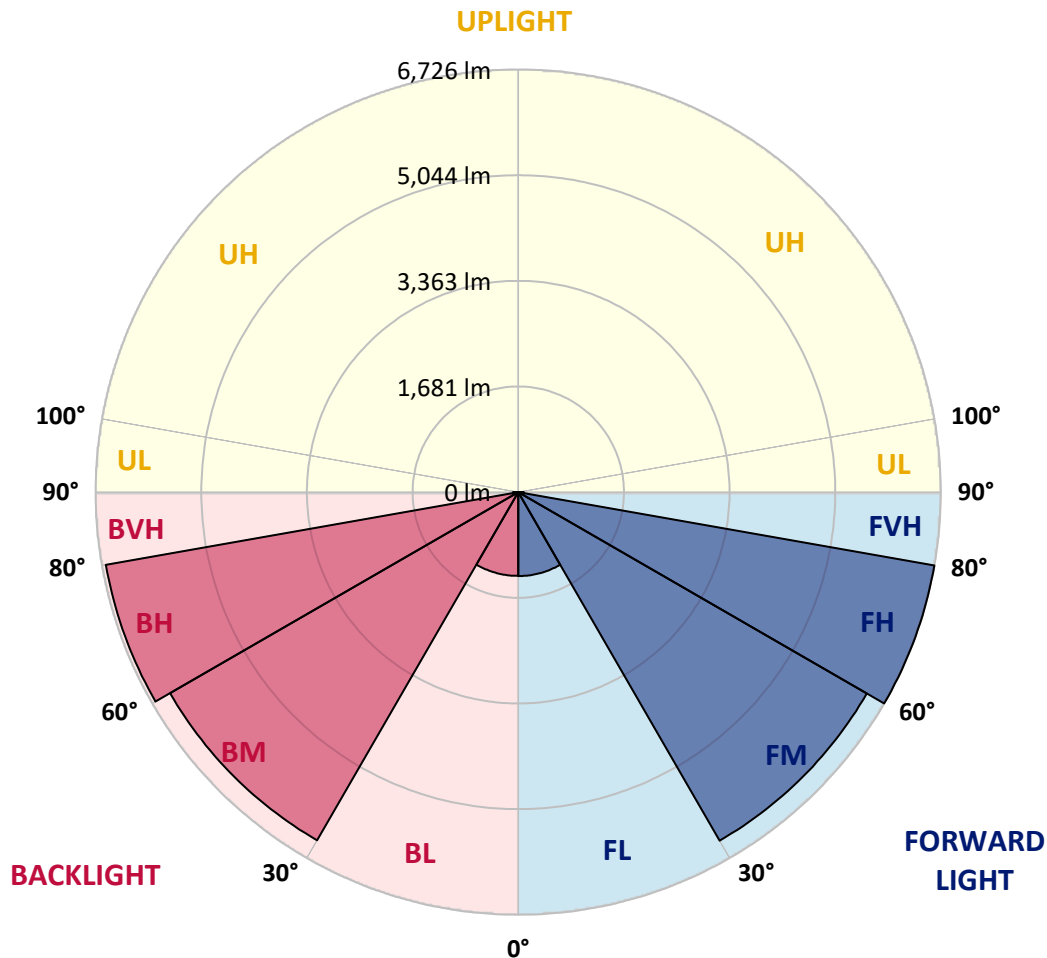
REPORT NUMBER: P479506
 CATALOG NUMBER: IFLD-M-SA4E-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.5	4.6			
FM (30°-60°)	6405.7	22.1			
FH (60°-80°)	6725.7	23.2			G3/7500
FVH (80°-90°)	89.7	0.3			G1/100
BL (0°-30°)	1332.8	4.6	B3/2500		
BM (30°-60°)	6398.8	22.0	B4/8500		
BH (60°-80°)	6665.1	23.0	B5		G3/7500
BVH (80°-90°)	85.6	0.3			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





REPORT NUMBER: P479506

CATALOG NUMBER: IFLD-M-SA4E-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0
2.5°	3099.1	3135.5	3162.0	3158.7	3168.7	3178.6	3165.4	3185.3	3172.0	3195.2	3208.5
5°	3158.7	3148.8	3152.1	3132.2	3178.6	3125.6	3125.6	3152.1	3185.3	3145.5	3168.7
7.5°	3122.3	3115.6	3099.1	3128.9	3138.8	3138.8	3165.4	3115.6	3172.0	3185.3	3188.6
10°	3082.5	3046.0	3095.8	3125.6	3132.2	3079.2	3102.4	3115.6	3099.1	3115.6	3125.6
12.5°	3049.4	3069.2	3069.2	3069.2	3059.3	3095.8	3119.0	3115.6	3082.5	3112.3	3059.3
15°	3046.0	3036.1	3065.9	3092.4	3075.9	3082.5	3092.4	3122.3	3059.3	3072.6	3072.6
17.5°	3042.7	3056.0	3065.9	3062.6	3119.0	3119.0	3109.0	3089.1	3138.8	3112.3	3075.9
20°	3056.0	3046.0	3072.6	3082.5	3122.3	3201.8	3172.0	3155.4	3128.9	3095.8	3095.8
22.5°	3072.6	3065.9	3102.4	3145.5	3221.7	3241.6	3238.3	3218.4	3172.0	3132.2	3125.6
25°	3132.2	3072.6	3112.3	3195.2	3221.7	3261.5	3288.0	3261.5	3198.5	3208.5	3148.8
27.5°	3221.7	3211.8	3264.8	3321.1	3297.9	3334.4	3311.2	3331.1	3334.4	3284.7	3225.0
30°	3327.8	3297.9	3331.1	3440.5	3450.4	3490.2	3450.4	3397.4	3414.0	3370.9	3341.0
32.5°	3480.2	3470.3	3533.3	3606.2	3619.5	3599.6	3579.7	3609.5	3539.9	3506.8	3453.7
35°	3579.7	3622.8	3699.0	3755.3	3798.4	3778.5	3788.5	3758.7	3775.2	3705.6	3682.4
37.5°	3874.7	3858.1	3874.7	3970.8	3980.7	3970.8	3980.7	4013.9	3990.7	3931.0	3871.4
40°	4153.1	4126.6	4166.3	4275.7	4269.1	4302.2	4236.0	4272.4	4272.4	4159.7	4136.5
42.5°	4361.9	4451.4	4497.8	4587.3	4620.4	4590.6	4577.3	4584.0	4656.9	4524.3	4474.6
45°	4792.8	4789.5	4928.7	4978.4	4885.6	4879.0	4852.5	4932.0	4981.7	4905.5	4885.6
47.5°	5260.1	5283.3	5362.9	5382.8	5439.1	5336.4	5336.4	5346.3	5522.0	5343.0	5250.2
50°	5681.1	5710.9	5870.0	6025.8	5919.7	5810.3	5853.4	5906.5	6002.6	5833.5	5754.0
52.5°	6191.5	6353.9	6460.0	6542.9	6619.1	6542.9	6443.4	6503.1	6692.0	6466.6	6367.2
55°	6927.3	7056.6	7156.0	7308.5	7371.5	7268.7	7258.8	7252.2	7358.2	7119.6	6983.7
57.5°	7749.3	7696.3	7855.4	8090.7	8319.4	8220.0	8190.2	8196.8	8223.3	7885.2	7782.5
60°	8770.2	8829.9	9018.8	9224.3	9466.3	9605.5	9409.9	9297.2	9320.4	8859.7	8700.6
62.5°	9353.6	9486.1	9913.7	10619.7	11106.9	11541.1	11571.0	10838.5	10347.9	9453.0	8776.8
65°	9071.8	9051.9	9857.4	11163.3	13009.5	14272.3	14083.4	12306.8	10593.2	9171.3	8263.1
67.5°	7716.2	7663.2	8637.6	10709.2	13758.6	16516.2	16300.8	12721.1	9764.6	8113.9	7086.4
70°	4971.8	4958.5	6015.8	8163.7	12283.6	15163.9	15243.5	11554.4	7948.2	5942.9	4925.4
72.5°	1806.4	1915.8	2529.0	4388.4	8342.6	11600.8	11650.5	8554.8	4570.7	2747.7	2025.2
75°	666.2	686.1	798.8	1425.2	3801.8	7122.9	7308.5	4149.8	1624.1	894.9	729.2
77.5°	384.5	387.8	427.6	530.3	1126.9	2780.9	2893.6	1259.5	629.8	477.3	440.8
80°	261.8	258.5	301.6	344.7	450.8	788.9	838.6	527.0	397.7	331.5	278.4
82.5°	152.5	162.4	222.1	245.3	275.1	348.0	354.7	328.1	298.3	245.3	182.3
85°	92.8	76.2	122.6	135.9	159.1	155.8	155.8	179.0	192.2	172.4	102.8
87.5°	23.2	23.2	29.8	33.1	43.1	33.1	36.5	69.6	92.8	86.2	53.0
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: P479506

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0	3172.0
2.5°	3178.6	3168.7	3175.3	3211.8	3188.6	3119.0	3135.5	3172.0	3142.2	3125.6	3122.3
5°	3165.4	3185.3	3162.0	3168.7	3191.9	3135.5	3145.5	3191.9	3172.0	3178.6	3142.2
7.5°	3168.7	3178.6	3158.7	3128.9	3128.9	3175.3	3148.8	3155.4	3125.6	3175.3	3109.0
10°	3148.8	3122.3	3099.1	3115.6	3109.0	3095.8	3085.8	3105.7	3075.9	3119.0	3072.6
12.5°	3089.1	3095.8	3089.1	3082.5	3095.8	3128.9	3075.9	3082.5	3036.1	3042.7	3065.9
15°	3065.9	3085.8	3079.2	3115.6	3132.2	3082.5	3122.3	3082.5	3046.0	3026.2	3062.6
17.5°	3075.9	3105.7	3095.8	3122.3	3092.4	3128.9	3135.5	3119.0	3075.9	3059.3	3075.9
20°	3085.8	3075.9	3089.1	3135.5	3178.6	3142.2	3142.2	3132.2	3092.4	3069.2	3069.2
22.5°	3109.0	3092.4	3112.3	3148.8	3162.0	3218.4	3168.7	3145.5	3079.2	3019.5	3075.9
25°	3155.4	3165.4	3178.6	3165.4	3238.3	3231.7	3225.0	3208.5	3105.7	3109.0	3099.1
27.5°	3244.9	3188.6	3205.1	3284.7	3294.6	3321.1	3288.0	3317.8	3208.5	3211.8	3145.5
30°	3354.3	3294.6	3347.7	3417.3	3414.0	3463.7	3447.1	3453.7	3377.5	3334.4	3244.9
32.5°	3473.6	3467.0	3500.1	3543.2	3559.8	3586.3	3583.0	3583.0	3536.6	3423.9	3440.5
35°	3606.2	3652.6	3692.4	3738.8	3745.4	3778.5	3732.1	3738.8	3692.4	3609.5	3636.0
37.5°	3868.0	3864.7	3907.8	3964.2	3970.8	3944.3	3980.7	3964.2	3901.2	3844.8	3801.8
40°	4173.0	4106.7	4146.5	4279.0	4289.0	4242.6	4239.3	4236.0	4189.5	4066.9	4040.4
42.5°	4438.1	4524.3	4517.7	4560.8	4530.9	4507.7	4590.6	4544.2	4507.7	4378.5	4355.3
45°	4779.5	4806.0	4892.2	5031.4	4888.9	4888.9	4945.3	4908.8	4888.9	4792.8	4703.3
47.5°	5203.8	5227.0	5399.3	5409.3	5316.5	5253.5	5429.2	5435.8	5352.9	5280.0	5170.6
50°	5701.0	5710.9	5866.7	6025.8	5923.0	5803.7	5982.7	6052.3	5866.7	5767.3	5631.4
52.5°	6247.9	6218.0	6347.3	6645.6	6546.2	6509.7	6702.0	6718.5	6466.6	6310.8	6347.3
55°	6877.6	6837.8	7189.2	7391.4	7328.4	7262.1	7348.3	7388.1	7185.9	6930.7	7020.1
57.5°	7693.0	7712.9	7888.5	8087.4	8190.2	8206.7	8246.5	8206.7	8001.2	7742.7	7659.8
60°	8508.4	8568.0	8909.4	9284.0	9317.1	9608.8	9555.8	9356.9	9065.2	8697.3	8713.9
62.5°	8810.0	8760.3	9310.5	10225.3	11004.2	11537.8	11302.5	10596.5	9920.3	9250.8	9300.5
65°	8203.4	8326.1	9075.1	10507.0	12197.4	14308.8	13055.9	11103.6	9738.0	8873.0	8776.8
67.5°	7069.9	7162.7	8113.9	9625.4	12625.0	16012.4	13718.8	10387.7	8587.9	7467.6	7527.3
70°	4925.4	4971.8	5903.2	7885.2	11448.3	15110.9	12376.4	7978.0	5929.7	4726.5	4792.8
72.5°	1982.1	2094.8	2708.0	4749.7	8452.0	11481.5	8332.7	4186.2	2459.4	1829.6	1660.6
75°	732.5	735.8	865.1	1634.1	4013.9	7215.7	3758.7	1345.7	785.5	643.0	613.2
77.5°	424.3	420.9	450.8	590.0	1163.4	2817.3	1067.3	527.0	427.6	384.5	367.9
80°	265.2	261.8	308.3	391.1	510.4	772.3	450.8	328.1	288.4	248.6	248.6
82.5°	169.0	172.4	242.0	288.4	311.6	341.4	261.8	232.0	215.4	142.5	139.2
85°	109.4	99.4	169.0	192.2	172.4	152.5	145.8	122.6	112.7	69.6	76.2
87.5°	49.7	53.0	86.2	96.1	63.0	36.5	36.5	26.5	26.5	16.6	16.6
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)