

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: P483410

Luminaire Tested: **IFLD-L-SA7D-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483410
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

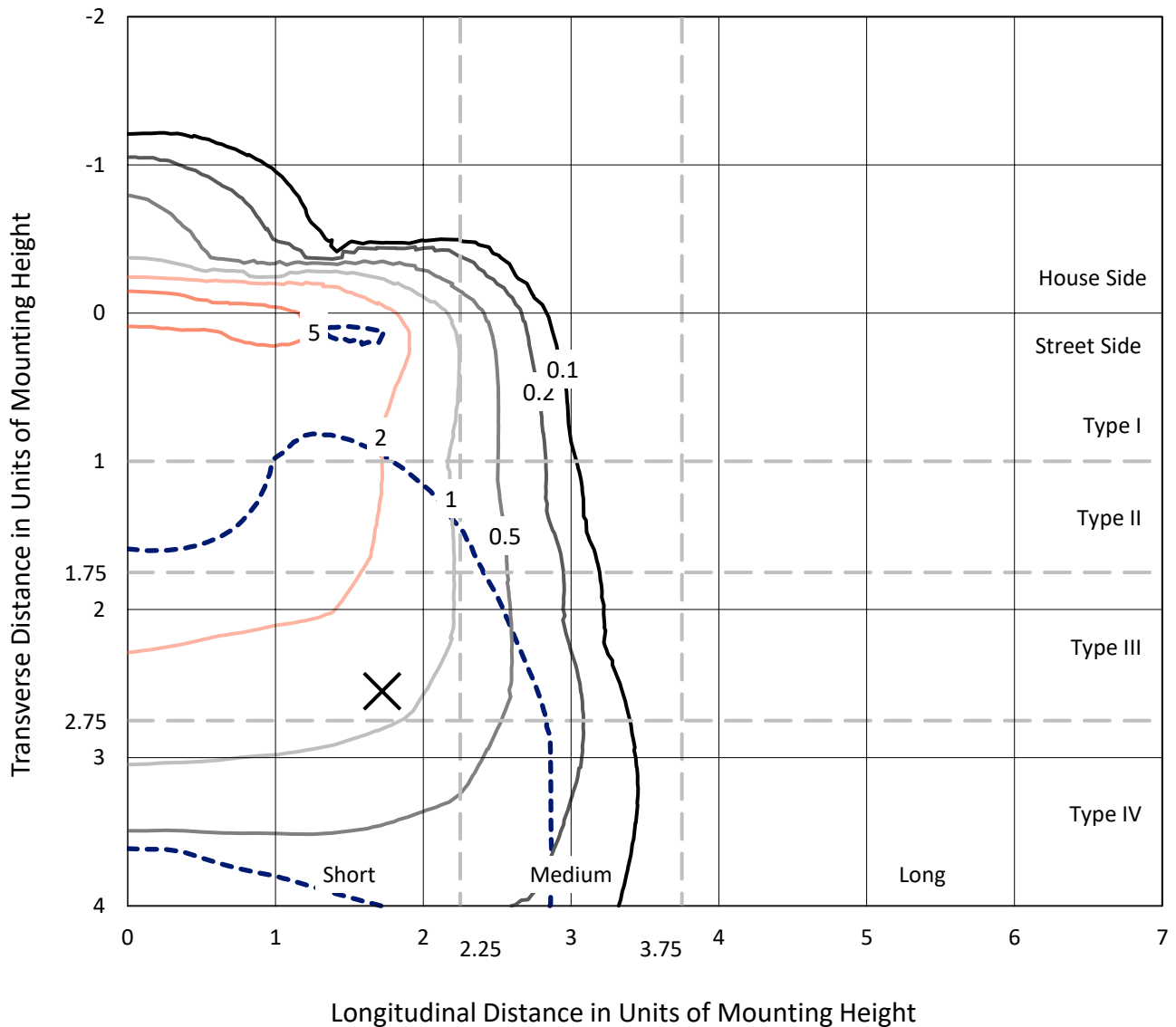
Lumens per Lamp: N/A
Luminaire Lumens: 28026.8 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 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

REPORT NUMBER: P483410
 CATALOG NUMBER: IFLD-L-SA7D-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

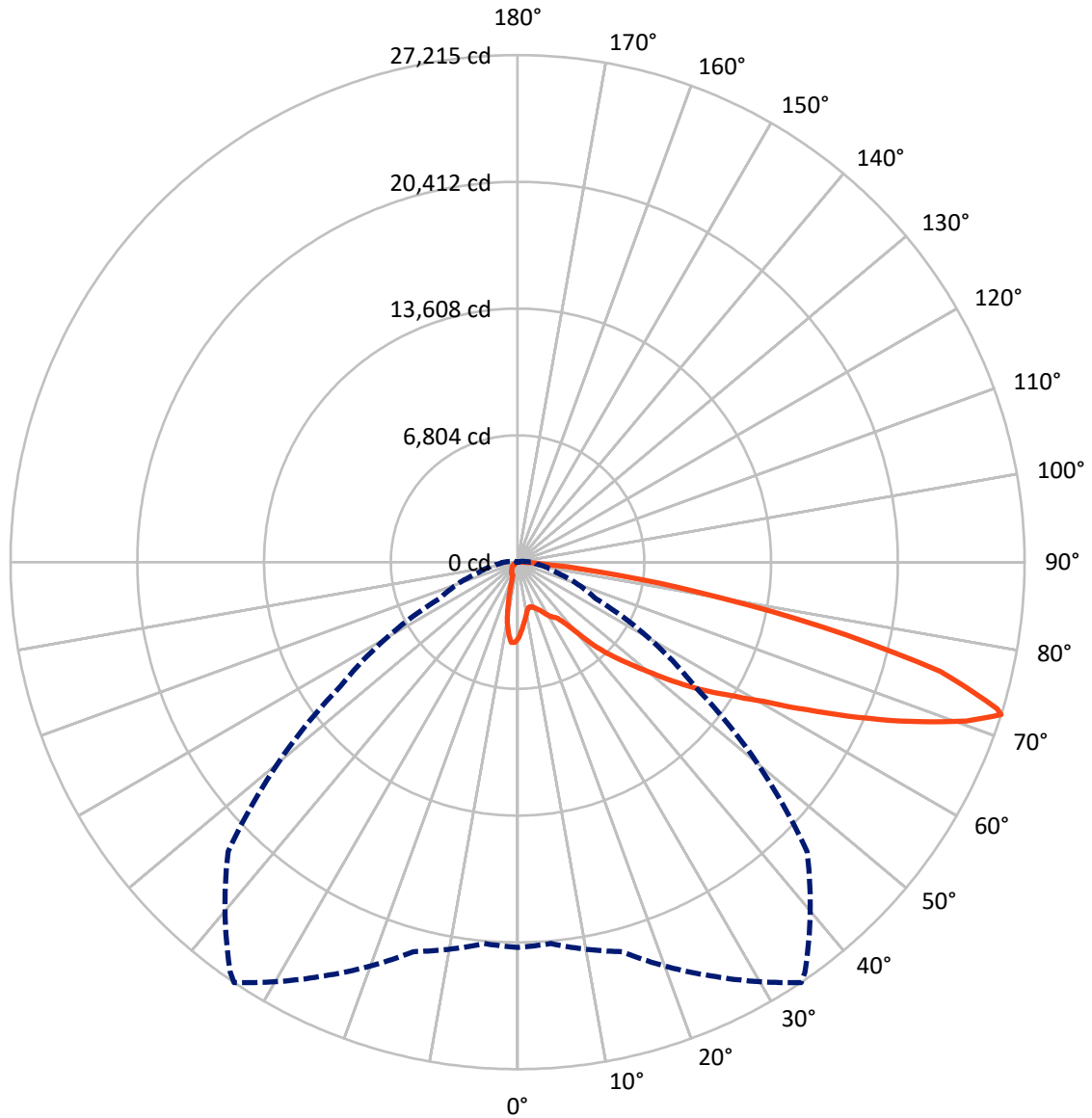
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P483410
CATALOG NUMBER: IFLD-L-SA7D-830-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P483410
 CATALOG NUMBER: IFLD-L-SA7D-830-U-T4FT-HSS

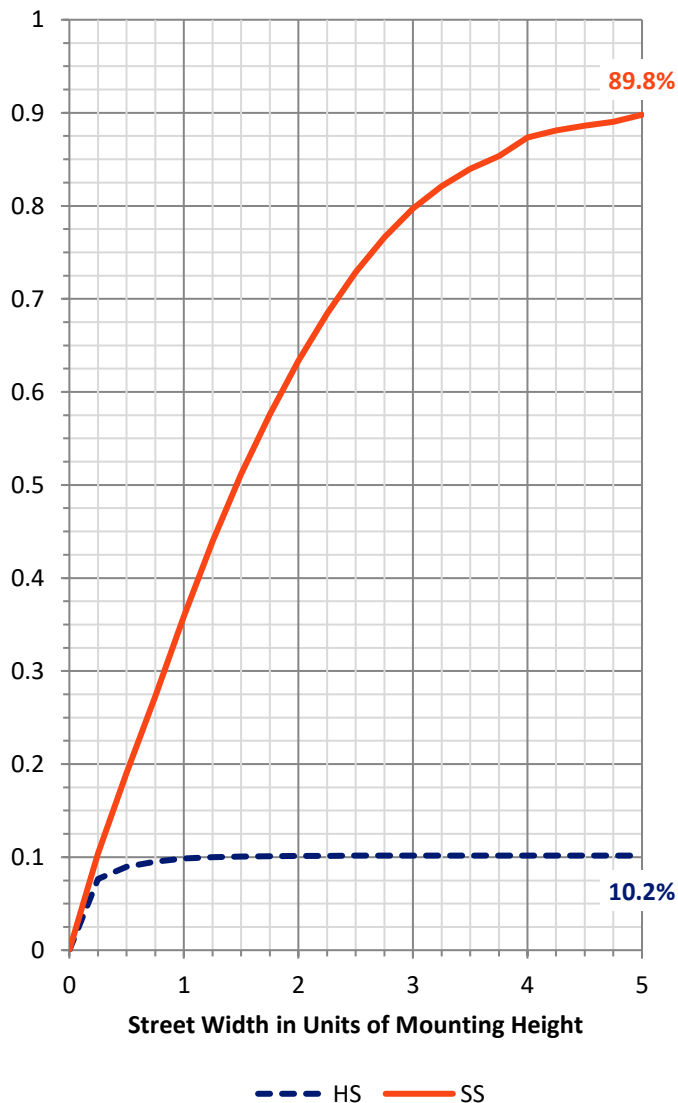
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2869.3	0.0	2869.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	25157.5	0.0	25157.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	28026.8	0.0	28026.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.9	1.3
10°-20°	805.9	2.9
20°-30°	1216.3	4.3
30°-40°	1973.9	7.0
40°-50°	3711.8	13.2
50°-60°	6068.9	21.7
60°-70°	8067.7	28.8
70°-80°	5402.9	19.3
80°-90°	423.4	1.5
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°	28026.8	100.0
0°-180°	28026.8	100.0

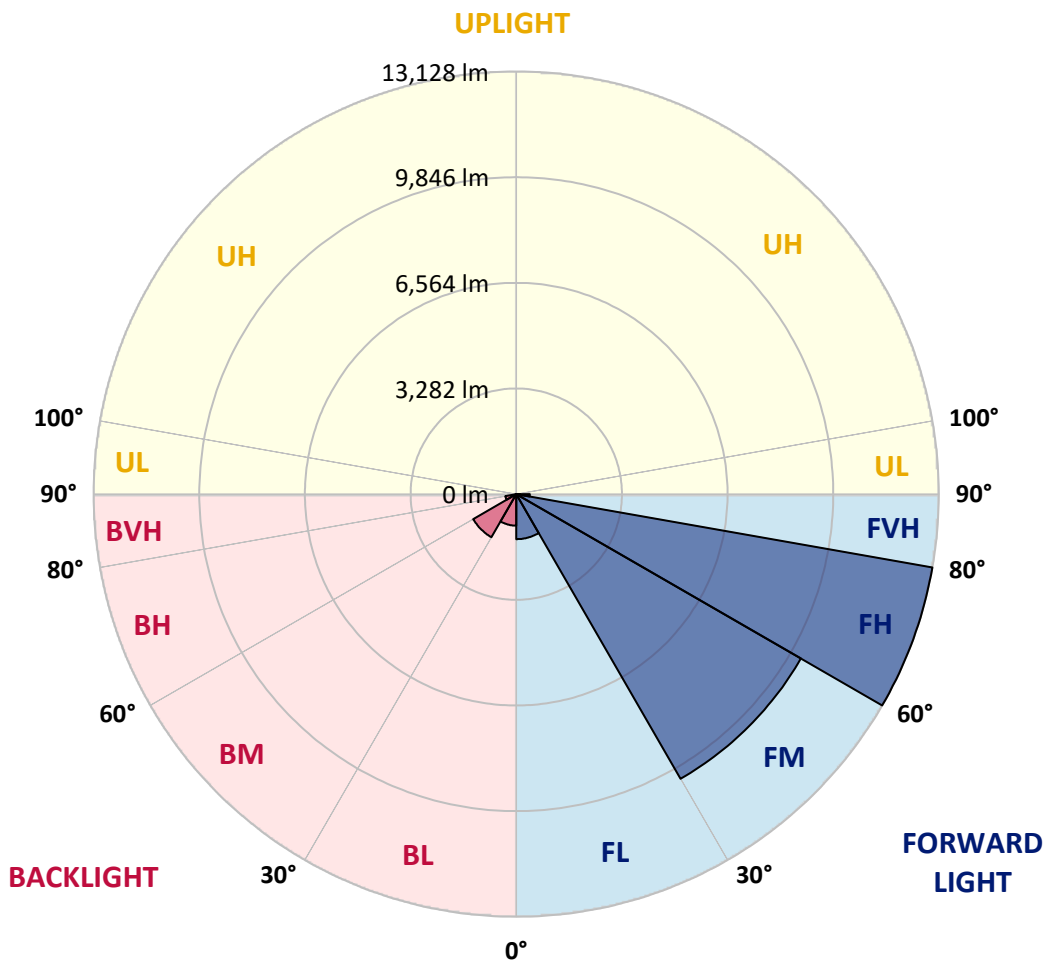


REPORT NUMBER: P483410
 CATALOG NUMBER: IFLD-L-SA7D-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1399.1	5.0			
FM (30°-60°)	10210.1	36.4			
FH (60°-80°)	13127.5	46.8			G5
FVH (80°-90°)	420.7	1.5			G3/500
BL (0°-30°)	979.0	3.5	B2/1000		
BM (30°-60°)	1544.5	5.5	B2/2500		
BH (60°-80°)	343.1	1.2	B1/500		G1/500
BVH (80°-90°)	2.7	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





REPORT NUMBER: P483410

CATALOG NUMBER: IFLD-L-SA7D-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3
2.5°	3626.3	3618.2	3642.5	3683.0	3723.5	3707.3	3784.3	3865.3	3922.1	3999.0	4092.2
5°	3168.4	3188.7	3213.0	3294.0	3346.7	3358.9	3500.7	3606.0	3780.3	3958.5	4124.6
7.5°	2751.1	2775.4	2824.0	2913.2	3022.6	3050.9	3192.8	3403.4	3630.3	3865.3	4136.8
10°	2447.2	2471.5	2524.2	2580.9	2726.8	2726.8	2921.3	3213.0	3508.8	3784.3	4140.9
12.5°	2382.4	2394.6	2390.5	2435.1	2528.3	2548.5	2739.0	3059.0	3403.4	3755.9	4205.7
15°	2459.4	2467.5	2427.0	2402.7	2483.7	2504.0	2682.2	2965.9	3334.6	3772.1	4311.0
17.5°	2613.4	2585.0	2504.0	2467.5	2536.4	2548.5	2714.7	2961.8	3326.5	3816.7	4432.6
20°	2702.5	2734.9	2593.1	2524.2	2621.5	2637.7	2815.9	3026.6	3367.0	3893.7	4602.8
22.5°	2860.5	2876.7	2686.3	2641.7	2734.9	2734.9	2937.5	3156.3	3464.2	4019.3	4805.3
25°	3083.4	3063.1	2840.3	2795.7	2884.8	2921.3	3123.9	3362.9	3614.1	4136.8	4991.7
27.5°	3257.6	3269.7	3087.4	2969.9	3119.8	3144.1	3362.9	3585.8	3727.6	4234.0	5218.6
30°	3516.9	3492.6	3298.1	3164.4	3350.8	3354.8	3565.5	3796.5	3946.4	4408.3	5559.0
32.5°	3824.8	3776.2	3553.4	3362.9	3512.8	3549.3	3764.0	4100.3	4286.7	4736.5	6085.7
35°	4477.1	4359.6	3995.0	3699.2	3711.4	3727.6	4059.8	4542.0	4756.7	5153.8	6790.7
37.5°	5429.3	5380.7	4967.4	4404.2	4189.5	4140.9	4513.6	5125.4	5392.8	5704.8	7706.4
40°	6373.4	6304.5	5919.6	5494.1	5105.2	5007.9	5194.3	5899.3	6142.4	6470.6	8646.4
42.5°	7422.7	7301.2	6847.4	6503.0	6259.9	6154.6	6081.6	6871.7	7147.2	7370.1	9566.1
45°	8484.3	8285.8	7629.4	7366.0	7236.4	7179.6	7171.5	8095.3	8261.5	8306.0	10587.1
47.5°	9416.2	9201.5	8605.8	8310.1	8212.8	8196.6	8650.4	9505.3	9375.7	9258.2	11725.7
50°	10133.3	9995.6	9566.1	9460.8	9387.8	9359.5	10421.0	10955.8	10356.2	10149.6	12726.4
52.5°	11243.5	10935.6	10449.4	10485.8	10741.1	10745.2	12215.9	12333.4	11170.6	10761.4	13670.5
55°	12130.8	11928.3	11531.2	11478.5	12151.1	12224.0	13824.5	13378.8	11624.4	11344.8	14018.9
57.5°	13176.2	13083.0	12795.3	12803.4	13508.4	13662.4	15254.7	14262.0	12001.2	11721.6	14071.6
60°	14687.5	14420.1	14270.1	14339.0	15169.6	15319.5	16640.4	14898.2	12183.5	11968.8	13942.0
62.5°	16356.8	16044.8	15882.7	16235.2	17446.7	17471.0	17693.9	15461.4	12070.1	12033.6	13107.3
65°	18366.4	18058.5	17928.9	18637.9	20076.3	19987.1	19172.7	15700.4	11709.5	11381.3	10915.3
67.5°	20368.0	20181.6	19914.2	21044.6	22835.5	22835.5	20708.3	15611.3	10765.4	9136.6	7139.1
70°	21316.1	21445.7	21871.2	23645.8	25546.1	25351.6	22223.7	14586.2	8014.3	4906.6	2807.8
72°	20684.0	20550.3	21648.3	24496.7	27215.4	26895.3	21968.4	11596.0	4631.1	2151.5	976.5
72.5°	19598.2	19723.8	21235.1	24379.2	26903.4	27166.8	21344.4	10696.5	3808.6	1713.9	737.4
75°	12017.4	12232.1	15850.3	20700.2	23443.2	23147.5	16510.7	5097.1	1462.7	729.3	263.4
77.5°	4388.0	4566.3	7690.2	13026.3	16672.8	16486.4	9554.0	1811.1	794.1	542.9	133.7
80°	1142.6	1235.8	2613.4	6008.7	9805.2	9817.3	3999.0	725.3	538.9	445.7	81.0
82.5°	226.9	251.2	802.2	2337.8	4582.5	4521.7	1264.1	389.0	405.2	364.7	56.7
85°	28.4	36.5	170.2	794.1	1482.9	1329.0	312.0	194.5	299.8	283.6	36.5
87.5°	4.1	4.1	40.5	182.3	312.0	303.9	64.8	60.8	133.7	174.2	20.3
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: P483410

CATALOG NUMBER: IFLD-L-SA7D-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3	4100.3
2.5°	4144.9	4161.1	4217.8	4266.5	4323.2	4339.4	4315.1	4355.6	4298.9	4331.3	4339.4
5°	4153.0	4246.2	4351.5	4420.4	4404.2	4363.7	4331.3	4221.9	4144.9	4116.5	4177.3
7.5°	4209.7	4315.1	4428.5	4428.5	4339.4	4128.7	3926.1	3731.6	3569.6	3488.5	3557.4
10°	4282.7	4392.1	4509.6	4355.6	4023.4	3638.4	3350.8	2986.1	2739.0	2609.3	2621.5
12.5°	4379.9	4533.9	4574.4	4217.8	3666.8	3095.5	2572.8	2066.4	1831.4	1645.0	1649.0
15°	4505.5	4655.4	4533.9	3918.0	3213.0	2370.3	1742.2	1260.1	1073.7	976.5	976.5
17.5°	4671.6	4785.1	4521.7	3642.5	2601.2	1620.7	1069.7	850.9	810.3	794.1	794.1
20°	4866.1	4951.2	4404.2	3213.0	1932.7	1041.3	786.0	761.7	765.8	757.7	757.7
22.5°	5084.9	5113.3	4270.5	2714.7	1308.7	769.8	733.4	737.4	741.5	733.4	737.4
25°	5315.9	5238.9	4076.0	2131.2	871.1	700.9	709.1	717.2	721.2	725.3	725.3
27.5°	5575.2	5421.2	3804.6	1559.9	680.7	660.4	684.7	709.1	713.1	713.1	709.1
30°	5956.0	5700.8	3541.2	1057.5	599.7	615.9	656.4	684.7	705.0	705.0	700.9
32.5°	6438.2	5992.5	3172.5	721.2	555.1	563.2	595.6	652.3	696.9	700.9	688.8
35°	7106.7	6345.0	2787.6	575.3	522.7	526.7	547.0	591.6	668.5	692.8	688.8
37.5°	7811.7	6746.1	2309.5	518.6	498.4	494.3	506.5	542.9	611.8	672.6	676.6
40°	8561.3	7167.5	1807.1	490.3	478.1	470.0	474.1	490.3	542.9	619.9	636.1
42.5°	9266.3	7548.3	1357.3	461.9	457.8	449.7	449.7	453.8	482.2	534.8	542.9
45°	10028.0	7860.3	1033.2	441.6	429.5	433.5	417.3	409.2	429.5	433.5	429.5
47.5°	10741.1	8172.3	826.6	417.3	405.2	405.2	384.9	368.7	368.7	332.2	328.2
50°	11409.6	8342.5	660.4	384.9	380.9	376.8	348.4	320.1	295.8	251.2	243.1
52.5°	11964.7	8334.4	510.5	344.4	356.6	344.4	299.8	259.3	222.8	182.3	174.2
55°	12130.8	7945.4	384.9	283.6	303.9	287.7	239.1	202.6	162.1	129.7	125.6
57.5°	11989.0	7353.9	291.7	218.8	235.0	218.8	182.3	149.9	113.4	89.1	81.0
60°	11515.0	6661.0	226.9	170.2	178.3	166.1	137.8	113.4	81.0	56.7	48.6
62.5°	10615.5	5794.0	174.2	133.7	129.7	129.7	105.3	85.1	56.7	32.4	28.4
65°	8711.2	4517.7	133.7	93.2	93.2	93.2	81.0	60.8	36.5	16.2	8.1
67.5°	5469.8	2629.6	109.4	72.9	68.9	68.9	56.7	40.5	20.3	4.1	0.0
70°	2058.3	964.3	85.1	56.7	52.7	52.7	40.5	24.3	12.2	0.0	0.0
72°	709.1	368.7	68.9	40.5	40.5	36.5	28.4	20.3	8.1	0.0	0.0
72.5°	583.4	295.8	64.8	40.5	36.5	36.5	28.4	20.3	8.1	0.0	0.0
75°	210.7	121.6	44.6	28.4	24.3	24.3	20.3	12.2	4.1	0.0	0.0
77.5°	105.3	77.0	36.5	24.3	20.3	12.2	12.2	8.1	4.1	0.0	0.0
80°	64.8	48.6	20.3	16.2	12.2	8.1	4.1	4.1	0.0	0.0	0.0
82.5°	44.6	28.4	12.2	12.2	8.1	4.1	0.0	0.0	0.0	0.0	0.0
85°	28.4	12.2	8.1	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	8.1	4.1	0.0	0.0	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)