

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: P482868

Luminaire Tested: **IFLD-L-SA8C-740-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482868  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-740-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (128) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

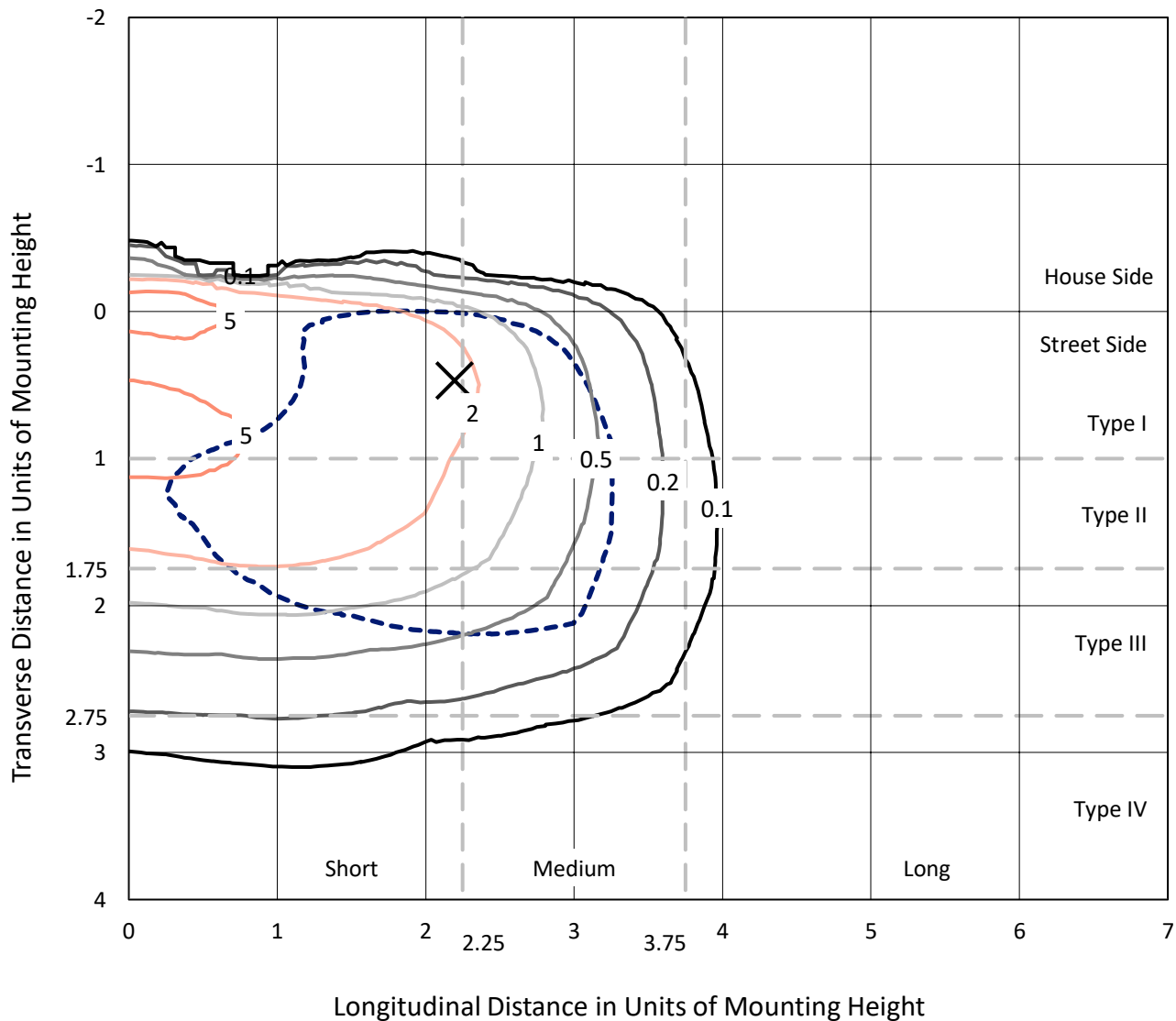
Lumens per Lamp: N/A  
Luminaire Lumens: 36316.9 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P482868  
 CATALOG NUMBER: IFLD-L-SA8C-740-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

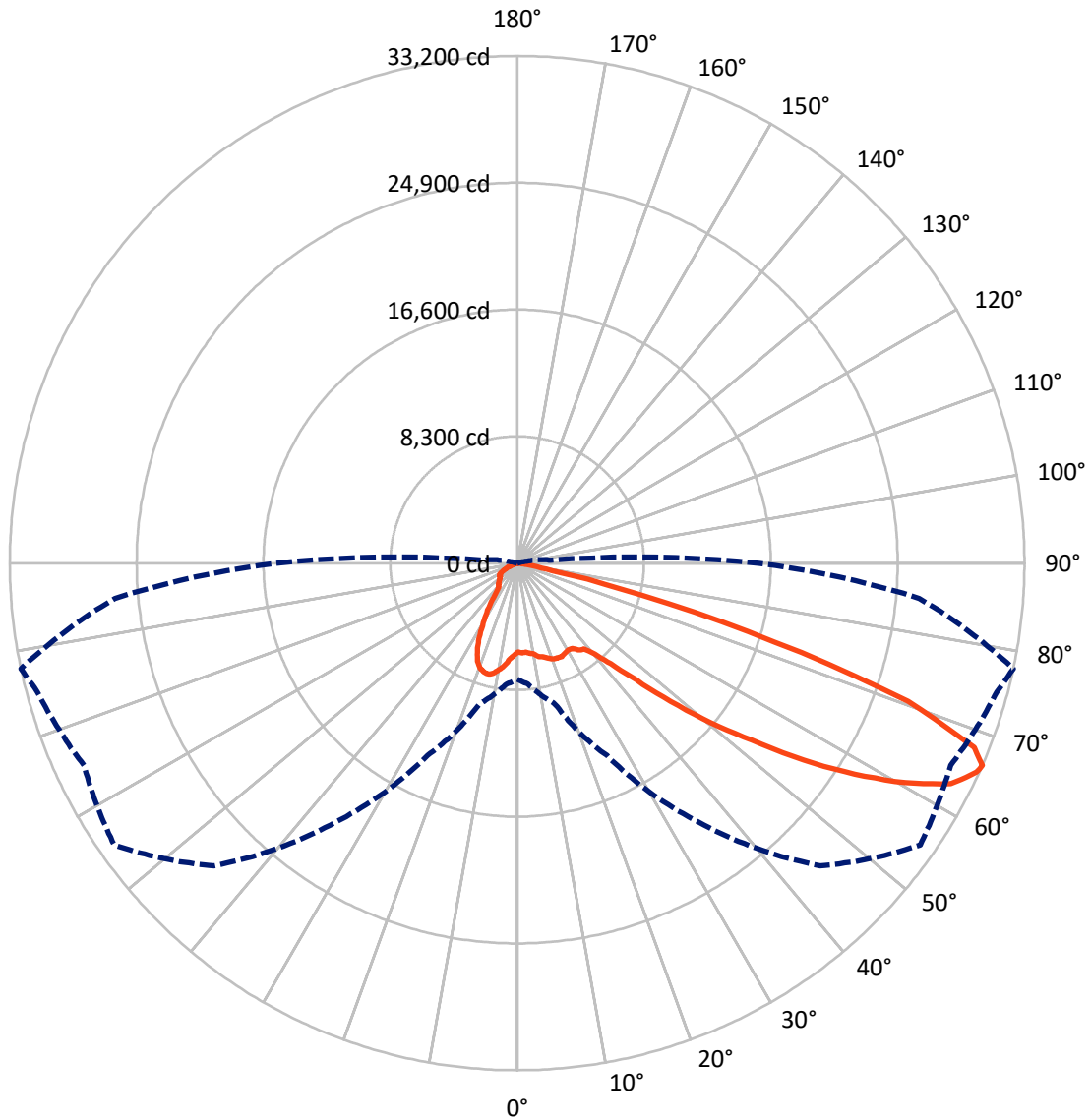
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P482868  
CATALOG NUMBER: IFLD-L-SA8C-740-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P482868  
 CATALOG NUMBER: IFLD-L-SA8C-740-U-T3R-HSS

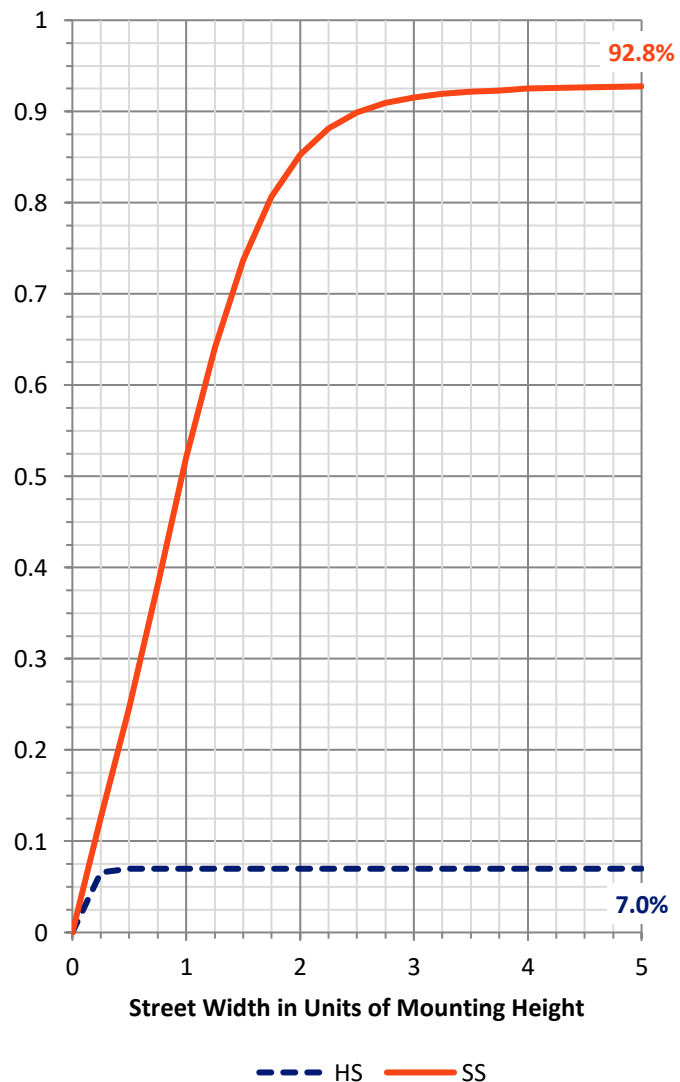
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2553.2	0.0	2553.2
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	33763.7	0.0	33763.7
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	36316.9	0.0	36316.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	532.1	1.5
10°-20°	1201.2	3.3
20°-30°	1717.0	4.7
30°-40°	2939.0	8.1
40°-50°	5304.6	14.6
50°-60°	9071.5	25.0
60°-70°	11165.4	30.7
70°-80°	4221.1	11.6
80°-90°	164.9	0.5
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°	36316.9	100.0
0°-180°	36316.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P482868

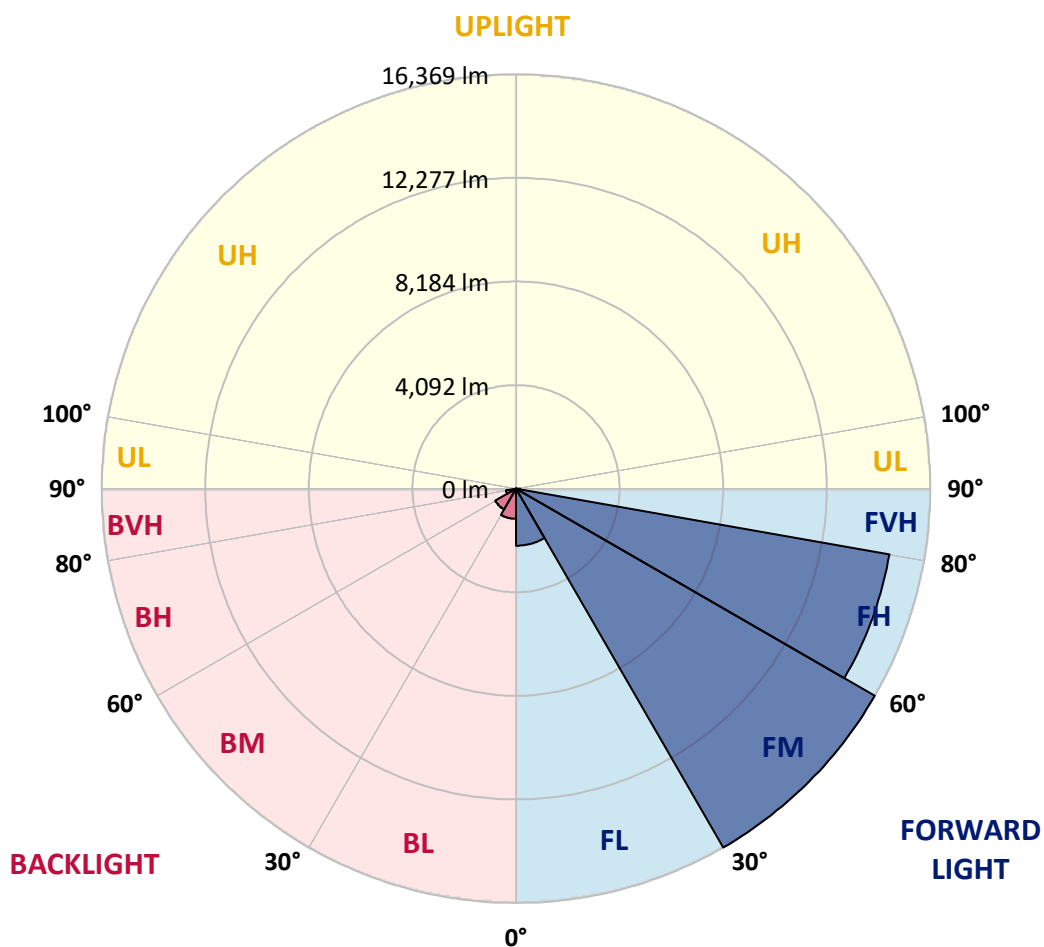
CATALOG NUMBER: IFLD-L-SA8C-740-U-T3R-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2254.6	6.2			
FM (30°-60°)	16368.8	45.1			
FH (60°-80°)	14982.1	41.3			G5
FVH (80°-90°)	158.3	0.4			G2/225
BL (0°-30°)	1195.8	3.3	B3/2500		
BM (30°-60°)	946.3	2.6	B1/1000		
BH (60°-80°)	404.5	1.1	B1/500		G1/500
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





REPORT NUMBER: P482868

CATALOG NUMBER: IFLD-L-SA8C-740-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8
2.5°	5350.3	5301.0	5350.3	5421.7	5460.1	5493.0	5608.3	5707.0	5811.3	5882.6	5860.7
5°	4960.7	5054.0	5065.0	5086.9	5147.3	5344.9	5410.7	5580.8	5838.7	5860.7	5959.5
7.5°	4653.4	4626.0	4697.3	4840.0	4993.7	5108.9	5301.0	5597.3	5866.2	5959.5	6151.5
10°	4208.9	4263.8	4340.6	4483.3	4669.9	4955.2	5295.5	5624.7	6008.9	6041.8	6398.5
12.5°	3967.5	3912.6	4033.3	4181.5	4499.8	4763.2	5180.2	5575.3	6096.7	6277.7	6689.3
15°	3769.9	3797.4	3912.6	4011.4	4274.8	4609.5	5097.9	5696.1	6244.8	6371.0	6996.6
17.5°	3687.6	3671.2	3759.0	3857.7	4181.5	4560.1	5065.0	5701.6	6376.5	6541.1	7205.1
20°	3726.0	3759.0	3731.5	3824.8	4027.9	4412.0	5114.4	5805.8	6475.3	6700.3	7430.1
22.5°	4329.7	4285.8	4066.3	3890.7	3901.6	4351.6	5076.0	5871.7	6563.1	6744.2	7583.8
25°	5904.6	5668.6	5125.4	4450.4	4005.9	4187.0	5032.1	5849.7	6546.6	6771.6	7677.1
27.5°	7490.5	7287.5	6755.2	5707.0	4428.4	4121.1	4878.4	5866.2	6464.3	6672.8	7523.4
30°	9164.2	9273.9	8483.7	7238.1	5536.9	4483.3	4779.6	5778.4	6409.4	6585.0	7556.3
32.5°	10881.8	10837.9	10360.5	9010.5	7122.8	5284.5	4938.8	5866.2	6480.8	6650.9	7748.4
35°	12226.2	12072.6	11589.7	10371.4	8434.3	6491.8	5487.5	6283.2	6793.6	6996.6	8022.8
37.5°	12890.2	12956.1	12676.2	11617.1	9872.1	7611.2	6173.5	6283.2	6892.3	7128.3	8467.3
40°	13406.1	13603.6	13499.3	13159.1	11298.8	8873.3	6930.8	6672.8	7391.7	7836.2	9301.4
42.5°	14026.1	13932.9	14547.5	14234.7	13164.6	10464.7	8258.7	7600.2	8571.5	8999.6	10552.5
45°	14355.4	14712.1	15178.5	15579.1	14893.2	12451.2	9992.8	9241.0	10376.9	10920.2	12412.8
47.5°	15200.5	15343.2	16100.4	16605.3	16298.0	14723.1	12626.8	11639.1	12648.8	13504.8	14542.0
50°	15694.4	15502.3	16561.4	17329.6	17505.2	16605.3	14986.5	14218.2	15348.6	16440.7	16534.0
52.5°	15260.8	15809.6	16868.7	18246.1	18734.5	18284.5	17757.7	17422.9	18218.6	19228.3	18778.4
55°	13740.8	14113.9	16693.1	19250.3	20825.2	20616.7	21105.1	20885.6	21686.8	22756.8	21401.4
57.5°	12517.1	12983.5	15249.9	19771.6	22773.3	23387.9	24002.5	23865.3	24831.1	26065.8	23623.9
60°	11754.3	12023.2	14207.2	19639.9	23925.7	26252.4	27640.7	26674.9	28249.8	29193.7	25363.4
62.5°	10431.8	10601.9	12687.2	17894.9	24271.4	28277.3	30631.4	29319.9	30686.3	31838.7	26614.6
65°	8363.0	8824.0	10547.0	15282.8	21988.6	28650.4	32497.2	30955.2	32277.7	33035.0	26993.2
66°	7611.2	7946.0	9526.4	13899.9	20688.0	28030.3	32184.4	31295.4	32508.2	33199.6	26411.5
67.5°	6316.2	6607.0	7863.6	11929.9	18026.6	26663.9	32403.9	31065.0	32683.8	32261.2	25632.3
70°	4181.5	4368.1	5377.8	8066.7	12555.5	21813.0	30055.2	29265.0	28732.8	27146.9	20040.5
72.5°	1953.6	2222.5	3358.4	4889.4	7364.3	15260.8	24507.3	23448.3	20150.2	17615.0	12643.3
75°	883.5	1004.2	1843.8	2804.1	3303.5	7907.5	15809.6	14278.6	10031.2	8330.1	5536.9
77.5°	477.4	543.3	900.0	1333.5	1201.8	2771.2	7825.2	6508.2	3160.8	2315.7	1607.8
80°	367.7	433.5	751.8	762.8	444.5	718.9	2908.4	2013.9	790.2	598.1	384.1
82.5°	192.1	274.4	592.7	493.9	225.0	290.8	900.0	559.7	246.9	197.6	164.6
85°	76.8	120.7	334.7	329.3	131.7	98.8	252.4	170.1	98.8	82.3	76.8
87.5°	5.5	5.5	181.1	126.2	82.3	27.4	38.4	38.4	49.4	43.9	54.9
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: P482868  
 CATALOG NUMBER: IFLD-L-SA8C-740-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8	5816.8
2.5°	5959.5	6025.3	6036.3	6217.4	6255.8	6217.4	6316.2	6299.7	6343.6	6310.7	6250.3
5°	6096.7	6189.9	6371.0	6508.2	6508.2	6398.5	6310.7	6195.4	6025.3	5981.4	5948.5
7.5°	6332.6	6628.9	6793.6	6705.8	6530.2	6118.6	5547.9	5130.8	4779.6	4647.9	4587.6
10°	6749.7	6914.3	7106.4	6749.7	6019.8	5147.3	4187.0	3555.9	3062.0	2952.3	2870.0
12.5°	7018.6	7282.0	7391.7	6508.2	5076.0	3775.4	2732.8	2019.4	1673.7	1410.3	1366.4
15°	7369.8	7671.6	7446.6	5855.2	4000.4	2474.9	1415.8	883.5	718.9	675.0	675.0
17.5°	7611.2	7940.5	7221.6	5043.0	2837.1	1317.0	702.4	609.1	598.1	603.6	592.7
20°	8033.8	8231.3	6881.4	4099.2	1695.6	675.0	565.2	543.3	532.3	548.8	537.8
22.5°	8192.9	8374.0	6327.1	2968.8	762.8	450.0	422.5	406.1	417.1	411.6	406.1
25°	8181.9	8275.2	5416.2	1701.1	225.0	175.6	159.1	159.1	148.2	153.7	148.2
27.5°	8264.2	8033.8	4395.5	504.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	8308.1	7644.1	3127.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	8330.1	7441.1	2013.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	8500.2	7035.0	861.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8615.4	6513.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	9092.9	6349.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9712.9	6041.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10574.5	5586.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11715.9	5317.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12566.5	4894.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13647.5	4642.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14931.6	4653.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	16100.4	4576.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16698.6	3912.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16572.4	3166.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16133.4	2485.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	15831.5	2200.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14915.1	1761.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11869.5	1207.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7550.9	740.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3479.1	340.2	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1092.0	208.5	43.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	285.4	131.7	43.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	148.2	93.3	38.4	16.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	93.3	38.4	16.5	11.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	82.3	22.0	11.0	11.0	5.5	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)