

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: P482049

Luminaire Tested: **IFLD-L-SA8C-735-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482049  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-735-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R  
distribution lens with House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

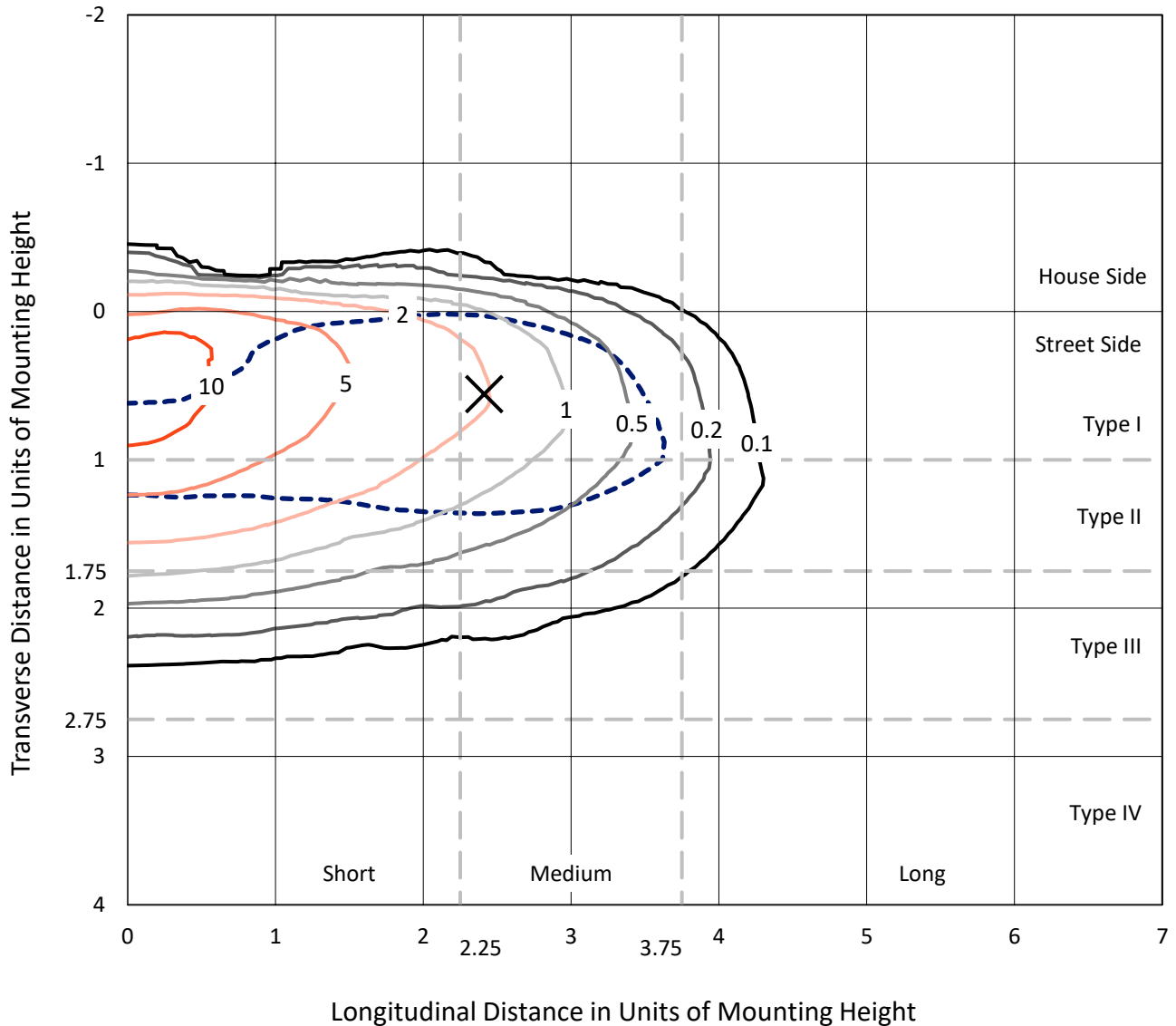
Lumens per Lamp: N/A  
Luminaire Lumens: 39286.7 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3  
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: P482049  
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

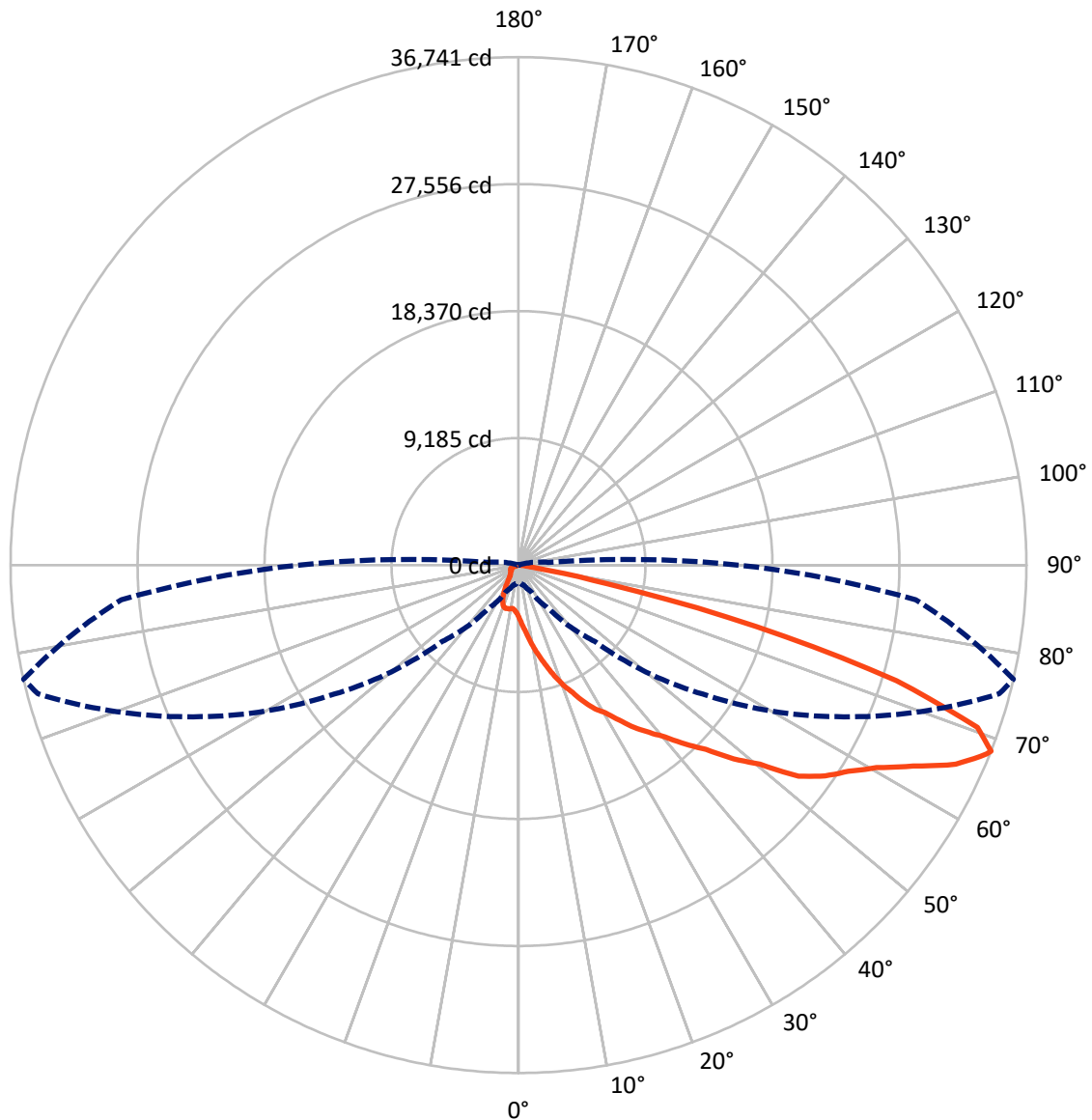
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482049  
CATALOG NUMBER: IFLD-L-SA8C-735-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P482049  
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T2R-HSS

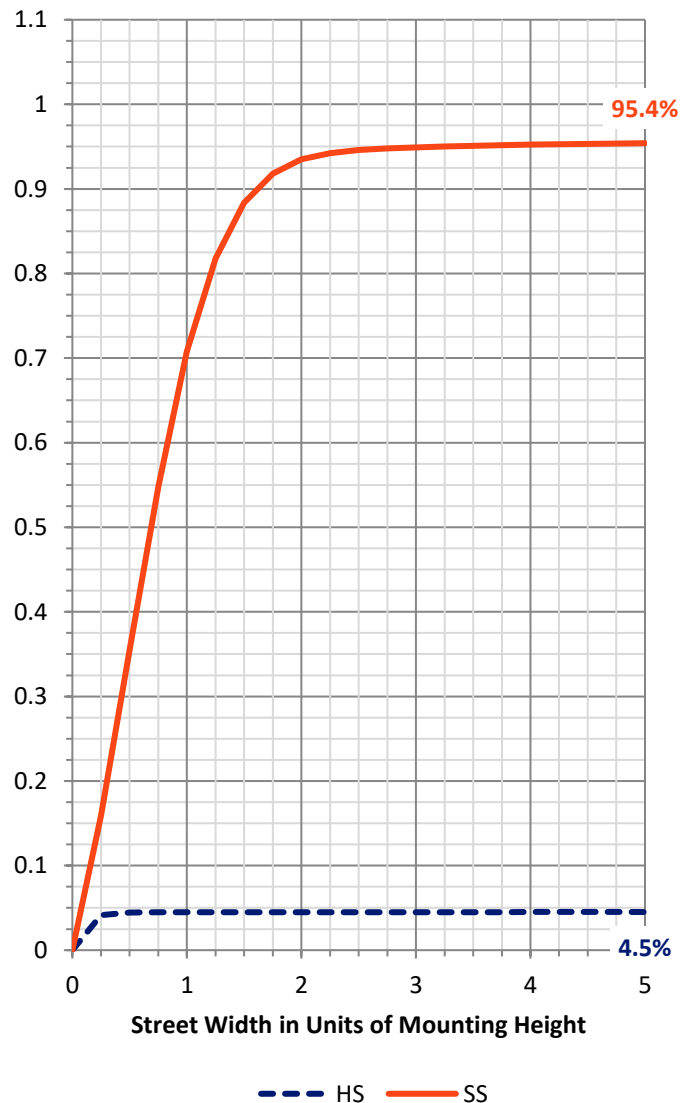
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1781.6	0.0	1781.6
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	37505.1	0.0	37505.1
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	39286.7	0.0	39286.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.5	1.1
10°-20°	1620.8	4.1
20°-30°	3141.2	8.0
30°-40°	5476.1	13.9
40°-50°	8020.3	20.4
50°-60°	9422.6	24.0
60°-70°	7956.6	20.3
70°-80°	3084.2	7.9
80°-90°	125.4	0.3
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°	39286.7	100.0
0°-180°	39286.7	100.0

**Coefficient of Utilization**

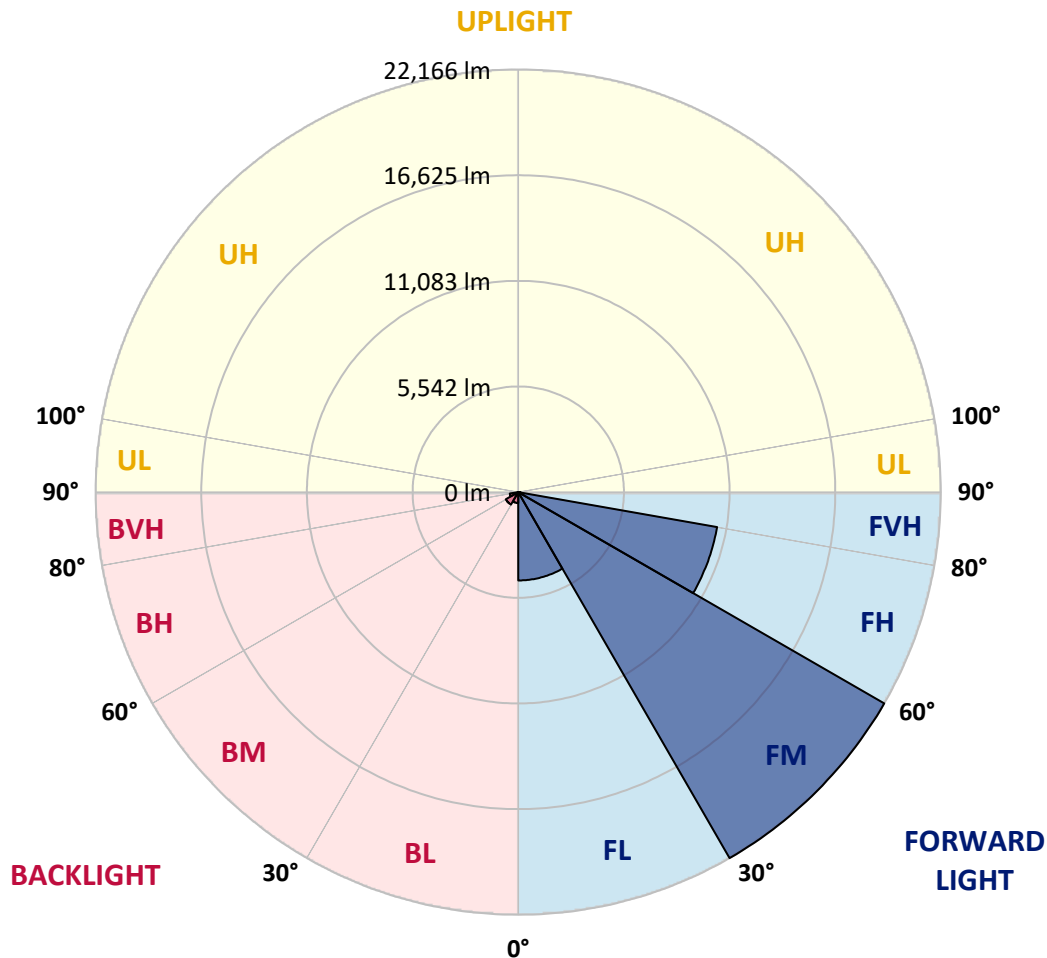


REPORT NUMBER: P482049  
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4632.2	11.8			
FM (30°-60°)	22166.3	56.4			
FH (60°-80°)	10590.9	27.0			G4/12000
FVH (80°-90°)	115.7	0.3			G2/225
BL (0°-30°)	569.2	1.4	B2/1000		
BM (30°-60°)	752.8	1.9	B1/1000		
BH (60°-80°)	449.8	1.1	B1/500		G1/500
BVH (80°-90°)	9.7	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-G4**  
 Type II Medium





REPORT NUMBER: P482049

CATALOG NUMBER: IFLD-L-SA8C-735-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8
2.5°	5715.7	5607.5	5493.8	5461.3	5250.2	5012.1	4790.2	4573.7	4211.0	4216.4	3967.4
5°	7366.6	7231.2	7139.2	7117.6	6787.4	6376.0	6040.5	5428.8	4828.0	4692.7	4238.1
7.5°	8725.1	8681.8	8546.5	8432.8	8189.3	7685.9	7290.8	6413.9	5499.2	5347.7	4568.2
10°	9547.8	9612.8	9672.3	9526.2	9336.7	8974.1	8432.8	7485.6	6262.4	6072.9	4995.8
12.5°	10424.7	10316.4	10354.3	10473.4	10224.4	10143.2	9472.1	8589.8	7155.5	6792.8	5537.1
15°	10652.0	10695.3	10787.3	11133.7	11301.5	11068.8	10489.6	9482.9	8081.0	7577.6	6040.5
17.5°	10803.6	10781.9	10895.6	11415.2	11669.6	11891.5	11528.8	10478.8	8887.5	8438.3	6668.3
20°	10993.0	10873.9	11122.9	11453.1	12043.0	12508.5	12492.3	11480.1	9731.9	9255.6	7290.8
22.5°	11696.6	11604.6	11804.9	11837.4	12248.7	12898.2	13055.2	12297.4	10597.9	10013.3	7961.9
25°	12995.7	13163.5	12925.3	12719.6	12844.1	13271.7	13385.4	13022.7	11469.3	10933.5	8633.1
27.5°	14895.5	14873.8	14402.9	14137.7	13840.0	13785.9	13867.1	13699.3	12156.7	11772.4	9185.2
30°	16936.0	16757.4	16324.4	15685.7	15030.8	14624.9	14511.2	14338.0	12963.2	12405.7	9731.9
32.5°	18559.8	18657.2	18175.5	17342.0	16254.1	15707.4	15160.7	14971.3	13850.9	13358.3	10359.7
35°	20053.7	19923.8	19539.5	18835.9	17861.6	16979.3	16124.1	15718.2	14917.1	14430.0	11052.5
37.5°	21157.9	21320.3	20589.5	19918.4	18949.5	18218.8	17379.9	16492.2	16015.9	15366.4	11896.9
40°	22202.5	21948.1	21455.6	20838.5	19940.0	19382.5	18830.5	17444.8	17185.0	16346.1	12849.5
42.5°	22018.5	22034.7	21764.1	21266.1	20616.6	20297.3	20107.8	18603.1	18245.9	17710.0	13780.5
45°	21266.1	21331.1	21423.1	21179.5	21233.6	20914.3	21423.1	19934.6	19582.8	19014.5	14852.2
47.5°	20438.0	20546.2	20524.6	20968.4	21471.8	21580.1	22852.0	21412.3	21260.7	20946.8	16335.2
50°	19063.2	19106.5	19523.3	20329.7	21017.1	22148.4	23923.7	23025.2	23258.0	22640.9	18099.8
52.5°	16714.1	16871.1	17942.8	19095.7	20481.3	22435.2	24649.0	25423.0	26013.0	25379.7	19793.9
55°	13742.6	13959.1	15014.6	17174.2	19203.9	22002.2	25309.3	26689.6	27885.7	26927.7	20822.3
57.5°	11058.0	11079.6	12026.8	14256.8	17390.7	21152.5	25644.9	27306.6	28914.1	28145.5	22078.0
60°	8427.4	8340.8	9190.6	11122.9	14338.0	19063.2	24806.0	27620.5	30196.9	29753.1	23588.1
62.5°	5423.4	5288.1	6213.7	8097.3	11198.7	15582.9	23128.1	27625.9	32199.6	32031.8	26115.8
65°	2684.7	2592.6	3388.3	4963.4	7750.9	11918.6	20735.7	27523.1	34646.1	34754.3	28578.6
67.5°	1418.1	1450.6	1705.0	2516.9	4470.8	8422.0	17130.9	26316.1	35896.4	36502.6	29173.9
68°	1304.4	1315.3	1515.5	2094.7	3880.8	7810.4	16275.7	25964.3	35993.8	36740.8	28843.8
70°	1060.9	1077.1	1147.5	1315.3	2100.1	5082.4	12557.2	22976.5	34527.0	35209.0	26110.4
72.5°	844.4	893.1	936.4	1006.7	1234.1	2668.4	7810.4	17904.9	28524.4	28600.2	20324.3
75°	644.1	682.0	768.6	828.1	963.4	1466.8	3718.5	10917.2	18716.8	17796.6	11972.7
77.5°	498.0	530.4	568.3	649.5	806.5	990.5	1136.6	4633.2	7951.1	6543.8	3382.9
80°	297.7	319.3	443.8	508.8	703.6	671.2	449.2	1288.2	1613.0	1272.0	617.0
82.5°	173.2	189.4	254.4	389.7	492.5	362.6	265.2	400.5	395.1	346.4	205.7
85°	5.4	10.8	140.7	232.7	173.2	97.4	162.4	167.8	140.7	129.9	92.0
87.5°	0.0	5.4	37.9	32.5	37.9	21.7	32.5	43.3	54.1	48.7	37.9
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: P482049

CATALOG NUMBER: IFLD-L-SA8C-735-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8	3761.8
2.5°	3799.6	3680.6	3415.4	3215.1	2998.6	2868.7	2738.8	2657.6	2614.3	2587.2	2608.9
5°	3897.1	3648.1	3220.5	2841.6	2592.6	2424.8	2257.1	2170.5	2089.3	2046.0	2073.0
7.5°	4113.6	3740.1	3031.1	2619.7	2327.4	2067.6	1856.5	1688.7	1591.3	1504.7	1520.9
10°	4378.8	3794.2	3036.5	2489.8	2067.6	1656.3	1358.6	1147.5	1028.4	952.6	947.2
12.5°	4649.4	4005.3	3058.1	2359.9	1748.3	1244.9	893.1	736.1	665.8	627.9	627.9
15°	5060.8	4194.8	3004.0	2121.7	1326.1	811.9	611.6	557.5	530.4	498.0	503.4
17.5°	5418.0	4497.9	2976.9	1764.5	909.3	584.6	508.8	449.2	422.2	389.7	389.7
20°	5899.7	4687.3	2830.8	1364.0	627.9	487.1	411.4	357.2	313.9	286.9	292.3
22.5°	6338.2	4833.5	2571.0	931.0	481.7	384.3	303.1	249.0	211.1	178.6	184.0
25°	6814.5	4979.6	2192.1	573.7	341.0	238.2	162.4	119.1	81.2	59.5	59.5
27.5°	7155.5	5022.9	1699.6	341.0	205.7	108.3	37.9	5.4	0.0	0.0	0.0
30°	7501.9	5039.1	1174.5	184.0	81.2	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7897.0	5033.7	736.1	97.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	8200.1	4941.7	351.8	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8660.2	4806.4	108.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	9185.2	4562.8	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9656.1	4313.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10191.9	4005.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11133.7	3875.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12362.4	3772.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13120.2	3469.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13515.3	3155.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14099.8	3004.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14965.9	3014.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16319.0	3166.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17065.9	3014.8	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16432.7	2414.0	102.8	27.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	15886.0	2219.2	102.8	27.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	13131.0	1445.2	97.4	27.1	10.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9564.1	801.1	81.2	21.7	10.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	5564.2	400.5	59.5	21.7	10.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1450.6	200.3	48.7	27.1	16.2	5.4	0.0	0.0	0.0	0.0	0.0
80°	286.9	129.9	43.3	32.5	21.7	10.8	0.0	0.0	0.0	0.0	0.0
82.5°	135.3	92.0	43.3	32.5	27.1	16.2	5.4	0.0	0.0	0.0	0.0
85°	70.4	43.3	43.3	32.5	32.5	21.7	10.8	0.0	0.0	0.0	0.0
87.5°	32.5	16.2	16.2	16.2	16.2	10.8	5.4	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)