

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: P481957

Luminaire Tested: **IFLD-S-SA6D-727-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481957  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-727-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

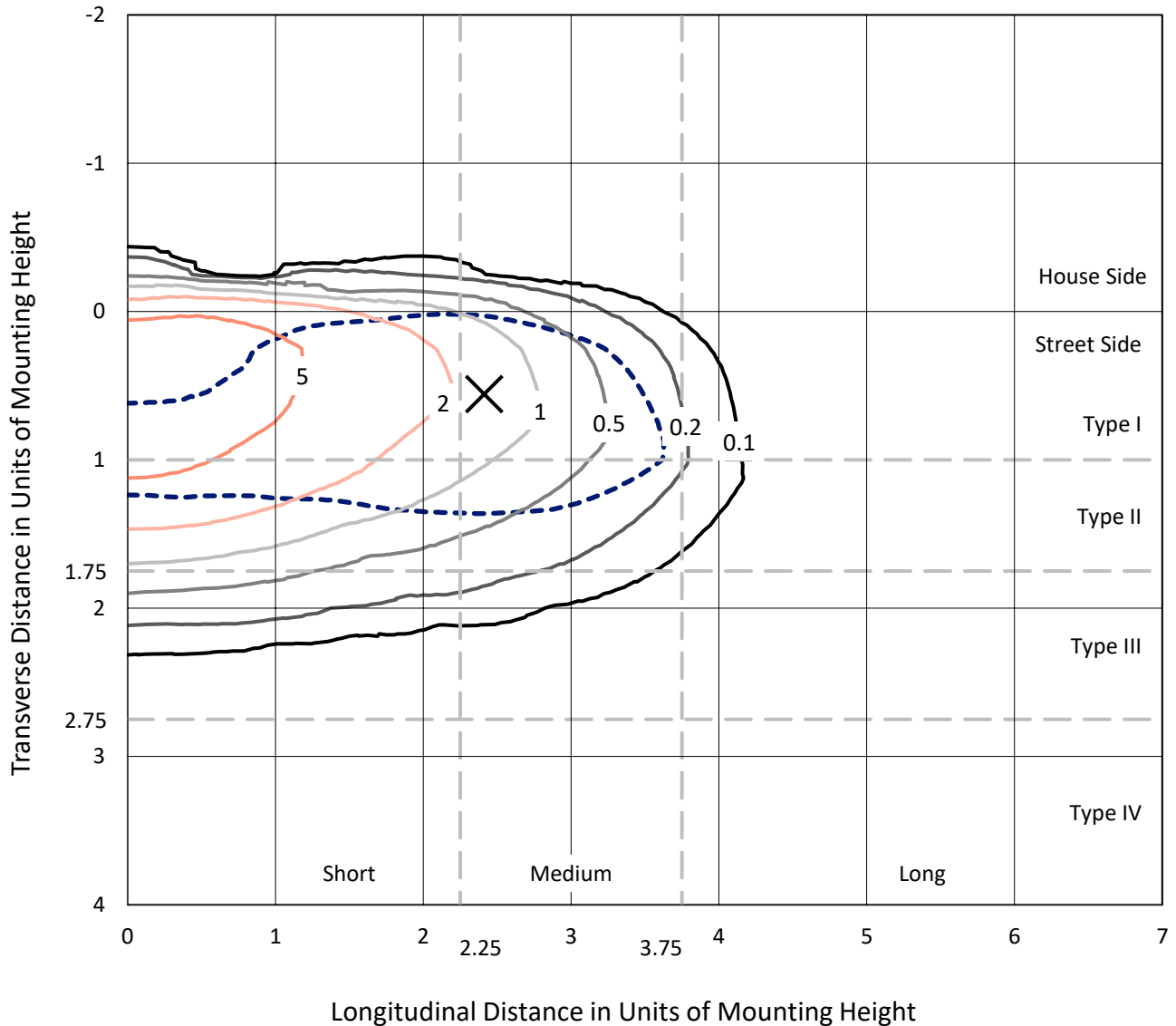
Lumens per Lamp: N/A  
Luminaire Lumens: 30062.4 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

Input Watts (W): 368.2  
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

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### Iso-Footcandle Lines of Horizontal Illumination

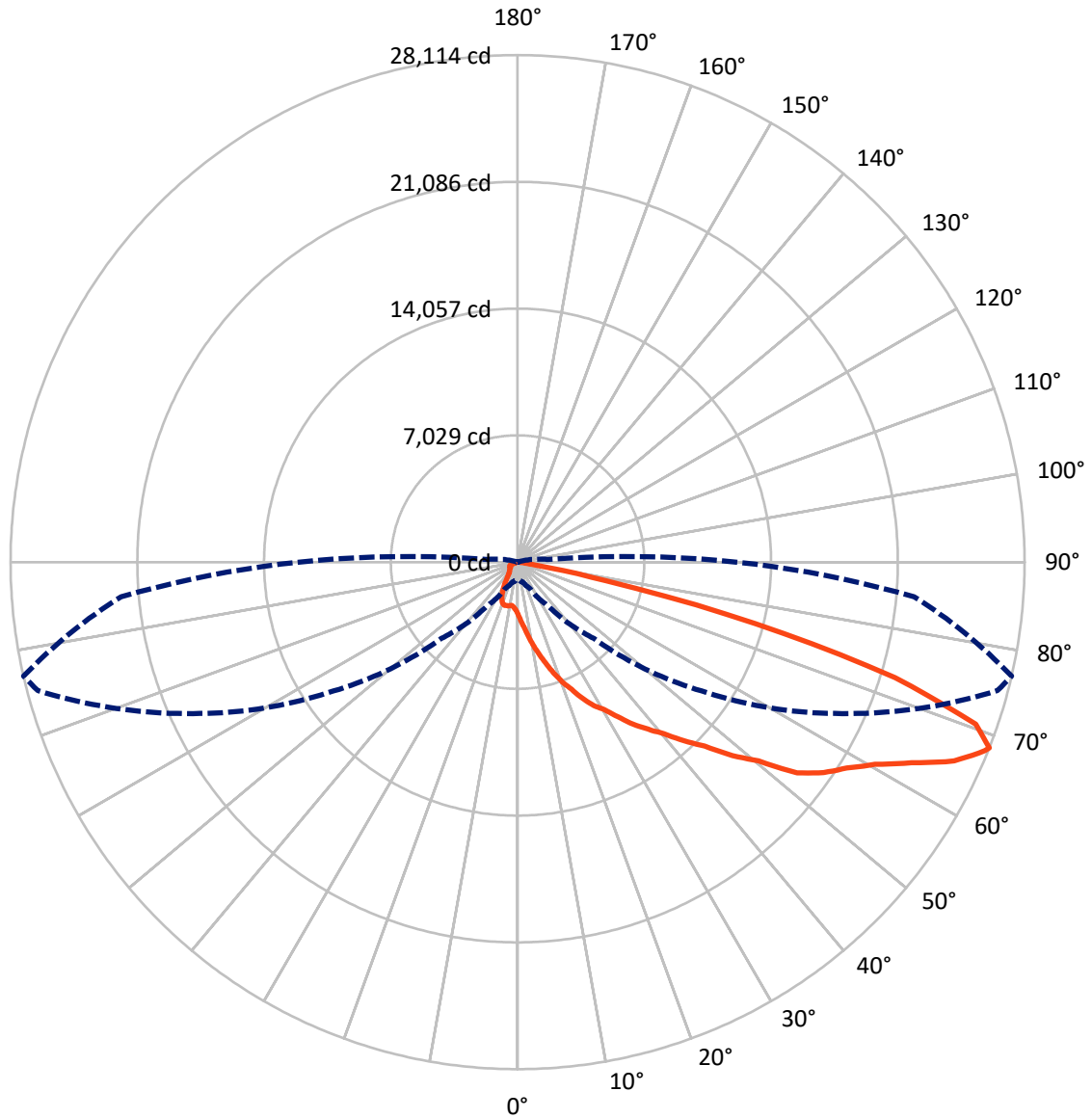
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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



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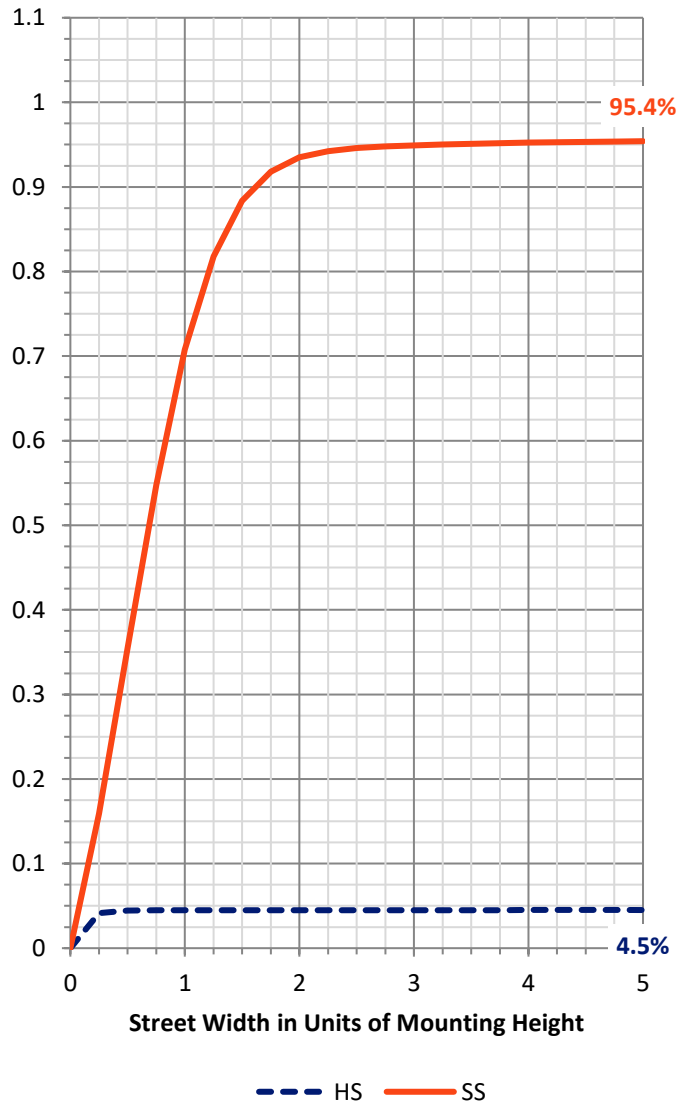
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1363.3	0.0	1363.3
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	28699.1	0.0	28699.1
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	30062.4	0.0	30062.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.3	1.1
10°-20°	1240.3	4.1
20°-30°	2403.6	8.0
30°-40°	4190.4	13.9
40°-50°	6137.2	20.4
50°-60°	7210.2	24.0
60°-70°	6088.4	20.3
70°-80°	2360.0	7.9
80°-90°	96.0	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°	30062.4	100.0
0°-180°	30062.4	100.0

**Coefficient of Utilization**

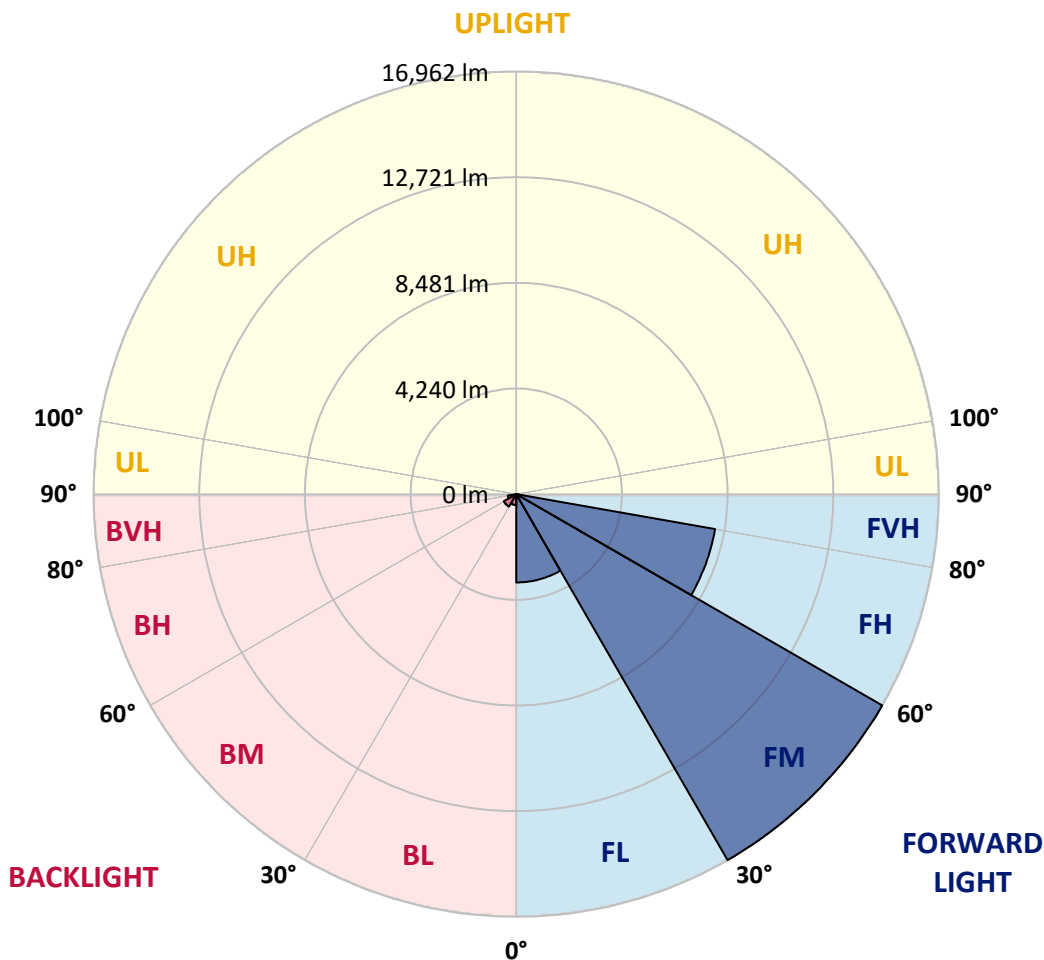


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3544.6	11.8			
FM (30°-60°)	16961.7	56.4			
FH (60°-80°)	8104.2	27.0			G4/12000
FVH (80°-90°)	88.5	0.3			G1/100
BL (0°-30°)	435.6	1.4	B1/500		
BM (30°-60°)	576.1	1.9	B1/1000		
BH (60°-80°)	344.2	1.1	B1/500		G1/500
BVH (80°-90°)	7.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5
2.5°	4373.7	4290.9	4203.9	4179.0	4017.5	3835.3	3665.4	3499.8	3222.3	3226.4	3035.9
5°	5636.9	5533.4	5463.0	5446.4	5193.8	4879.0	4622.2	4154.2	3694.4	3590.9	3243.0
7.5°	6676.5	6643.4	6539.8	6452.8	6266.5	5881.3	5578.9	4908.0	4208.0	4092.0	3495.6
10°	7306.0	7355.7	7401.3	7289.5	7144.5	6867.0	6452.8	5728.0	4792.0	4647.0	3822.8
12.5°	7977.0	7894.2	7923.2	8014.3	7823.8	7761.6	7248.1	6573.0	5475.4	5197.9	4237.0
15°	8151.0	8184.1	8254.5	8519.6	8648.0	8469.9	8026.7	7256.3	6183.6	5798.4	4622.2
17.5°	8266.9	8250.4	8337.3	8734.9	8929.6	9099.4	8821.9	8018.4	6800.8	6457.0	5102.6
20°	8411.9	8320.8	8511.3	8763.9	9215.4	9571.6	9559.2	8784.7	7446.9	7082.4	5578.9
22.5°	8950.3	8879.9	9033.2	9058.0	9372.8	9869.8	9989.9	9410.1	8109.5	7662.2	6092.5
25°	9944.3	10072.7	9890.5	9733.1	9828.4	10155.6	10242.5	9965.0	8776.4	8366.3	6606.1
27.5°	11398.1	11381.5	11021.2	10818.2	10590.5	10549.0	10611.2	10482.8	9302.4	9008.3	7028.5
30°	12959.5	12822.9	12491.5	12002.8	11501.6	11191.0	11104.0	10971.5	9919.5	9492.9	7446.9
32.5°	14202.1	14276.6	13908.0	13270.2	12437.7	12019.4	11601.0	11456.1	10598.7	10221.8	7927.3
35°	15345.2	15245.8	14951.7	14413.3	13667.8	12992.7	12338.3	12027.6	11414.7	11041.9	8457.5
37.5°	16190.1	16314.4	15755.2	15241.6	14500.3	13941.1	13299.2	12619.9	12255.4	11758.4	9103.6
40°	16989.5	16794.8	16417.9	15945.7	15258.2	14831.6	14409.1	13348.9	13150.1	12508.1	9832.5
42.5°	16848.6	16861.1	16654.0	16272.9	15775.9	15531.6	15386.6	14235.2	13961.8	13551.8	10544.9
45°	16272.9	16322.6	16393.0	16206.7	16248.1	16003.7	16393.0	15254.1	14984.8	14550.0	11365.0
47.5°	15639.2	15722.1	15705.5	16045.1	16430.3	16513.2	17486.5	16384.8	16268.8	16028.6	12499.8
50°	14587.2	14620.4	14939.3	15556.4	16082.4	16948.0	18306.5	17619.0	17797.1	17324.9	13850.0
52.5°	12789.7	12909.8	13729.9	14612.1	15672.4	17167.6	18861.5	19453.8	19905.2	19420.7	15146.4
55°	10515.9	10681.6	11489.2	13141.8	14694.9	16836.2	19366.8	20423.0	21338.3	20605.2	15933.3
57.5°	8461.6	8478.2	9203.0	10909.4	13307.4	16186.0	19623.6	20895.1	22125.2	21537.1	16894.2
60°	6448.7	6382.4	7032.7	8511.3	10971.5	14587.2	18981.6	21135.3	23106.8	22767.2	18049.7
62.5°	4150.0	4046.5	4754.7	6196.1	8569.3	11924.1	17697.7	21139.5	24639.3	24510.9	19983.9
65°	2054.3	1983.9	2592.7	3798.0	5931.0	9120.1	15867.0	21060.8	26511.3	26594.2	21868.4
67.5°	1085.1	1110.0	1304.7	1925.9	3421.1	6444.6	13108.6	20137.2	27468.1	27932.0	22324.0
68°	998.2	1006.4	1159.7	1602.9	2969.6	5976.5	12454.2	19868.0	27542.6	28114.2	22071.4
70°	811.8	824.2	878.1	1006.4	1607.0	3889.1	9608.9	17581.7	26420.2	26942.1	19979.8
72.5°	646.1	683.4	716.5	770.4	944.3	2041.9	5976.5	13700.9	21827.0	21885.0	15552.3
75°	492.9	521.9	588.1	633.7	737.2	1122.4	2845.4	8353.9	14322.2	13618.1	9161.5
77.5°	381.0	405.9	434.9	497.0	617.1	757.9	869.8	3545.3	6084.2	5007.4	2588.6
80°	227.8	244.4	339.6	389.3	538.4	513.6	343.8	985.7	1234.2	973.3	472.2
82.5°	132.5	145.0	194.7	298.2	376.9	277.5	202.9	306.5	302.3	265.1	157.4
85°	4.1	8.3	107.7	178.1	132.5	74.6	124.3	128.4	107.7	99.4	70.4
87.5°	0.0	4.1	29.0	24.9	29.0	16.6	24.9	33.1	41.4	37.3	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5	2878.5
2.5°	2907.5	2816.4	2613.4	2460.2	2294.5	2195.1	2095.7	2033.6	2000.5	1979.8	1996.3
5°	2982.1	2791.5	2464.3	2174.4	1983.9	1855.5	1727.1	1660.8	1598.7	1565.6	1586.3
7.5°	3147.7	2861.9	2319.4	2004.6	1781.0	1582.1	1420.6	1292.2	1217.7	1151.4	1163.8
10°	3350.7	2903.4	2323.5	1905.2	1582.1	1267.4	1039.6	878.1	786.9	728.9	724.8
12.5°	3557.8	3064.9	2340.1	1805.8	1337.8	952.6	683.4	563.3	509.4	480.4	480.4
15°	3872.5	3209.9	2298.7	1623.6	1014.7	621.3	468.0	426.6	405.9	381.0	385.2
17.5°	4145.9	3441.8	2278.0	1350.2	695.8	447.3	389.3	343.8	323.1	298.2	298.2
20°	4514.5	3586.8	2166.1	1043.7	480.4	372.8	314.8	273.4	240.2	219.5	223.7
22.5°	4850.0	3698.6	1967.3	712.4	368.6	294.1	231.9	190.5	161.5	136.7	140.8
25°	5214.5	3810.4	1677.4	439.0	260.9	182.2	124.3	91.1	62.1	45.6	45.6
27.5°	5475.4	3843.5	1300.5	260.9	157.4	82.8	29.0	4.1	0.0	0.0	0.0
30°	5740.5	3856.0	898.8	140.8	62.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6042.8	3851.8	563.3	74.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	6274.8	3781.4	269.2	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6626.8	3677.9	82.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7028.5	3491.5	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7388.9	3301.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7798.9	3064.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8519.6	2965.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9459.8	2886.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10039.6	2654.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10341.9	2414.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10789.3	2298.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11451.9	2307.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12487.4	2422.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13058.9	2307.0	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12574.4	1847.2	78.7	20.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	12156.0	1698.1	78.7	20.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	10047.9	1105.8	74.6	20.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7318.5	613.0	62.1	16.6	8.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	4257.7	306.5	45.6	16.6	8.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1110.0	153.2	37.3	20.7	12.4	4.1	0.0	0.0	0.0	0.0	0.0
80°	219.5	99.4	33.1	24.9	16.6	8.3	0.0	0.0	0.0	0.0	0.0
82.5°	103.5	70.4	33.1	24.9	20.7	12.4	4.1	0.0	0.0	0.0	0.0
85°	53.8	33.1	33.1	24.9	24.9	16.6	8.3	0.0	0.0	0.0	0.0
87.5°	24.9	12.4	12.4	12.4	12.4	8.3	4.1	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)