

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: P484429

Luminaire Tested: **IFLD-L-SA8D-740-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484429  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-740-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

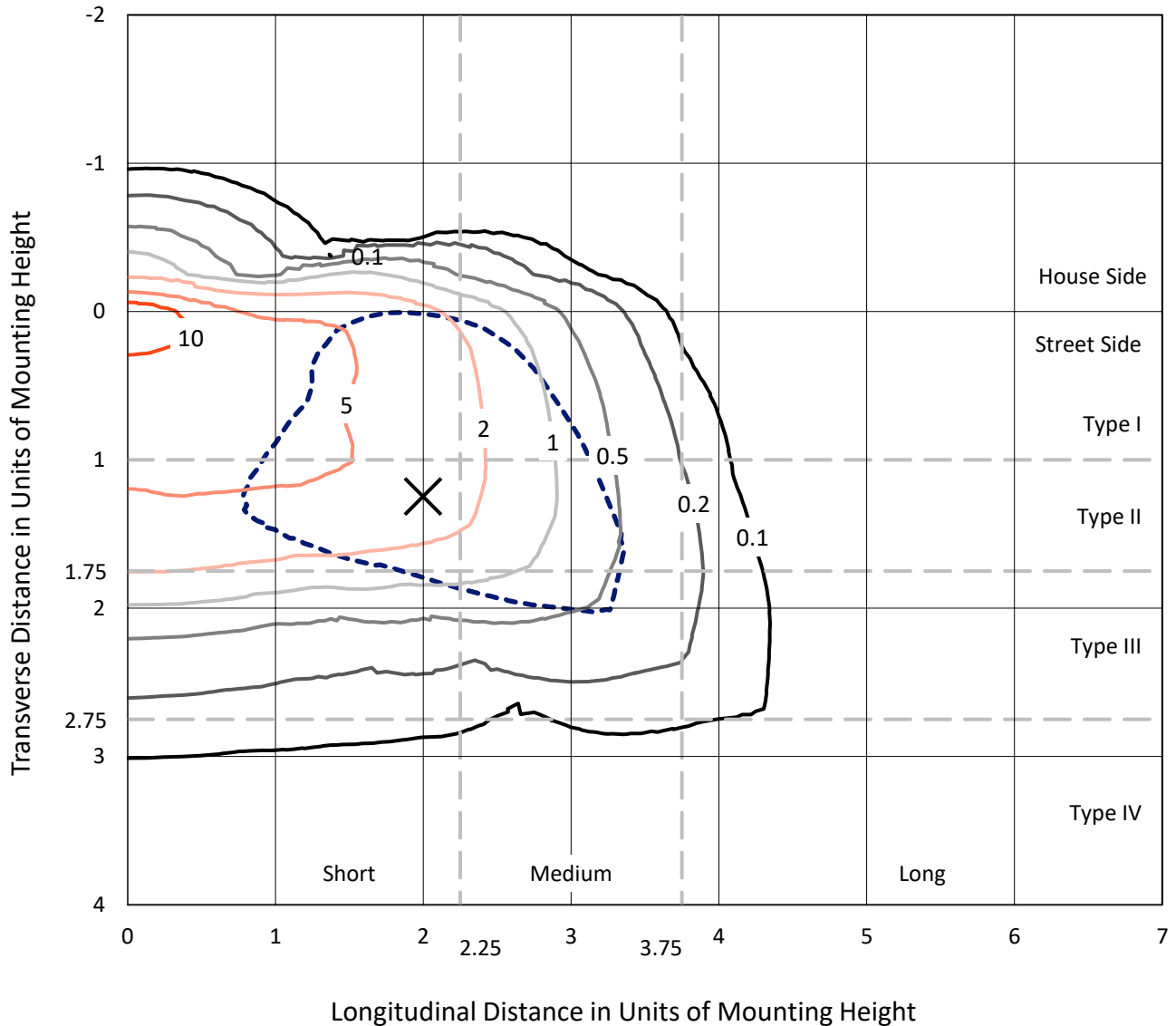
Lumens per Lamp: N/A  
Luminaire Lumens: 46621.5 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3  
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

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### Iso-Footcandle Lines of Horizontal Illumination

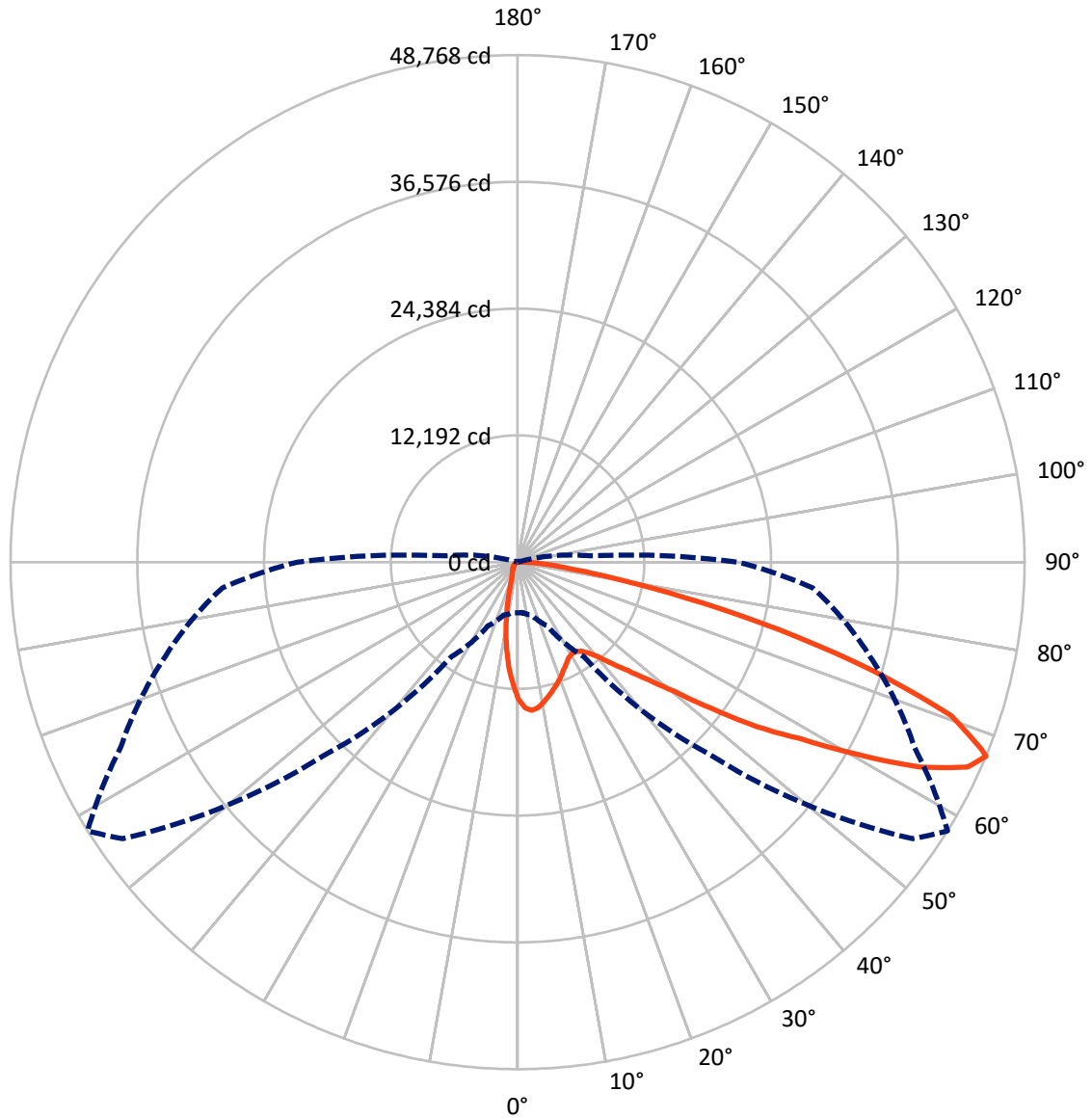
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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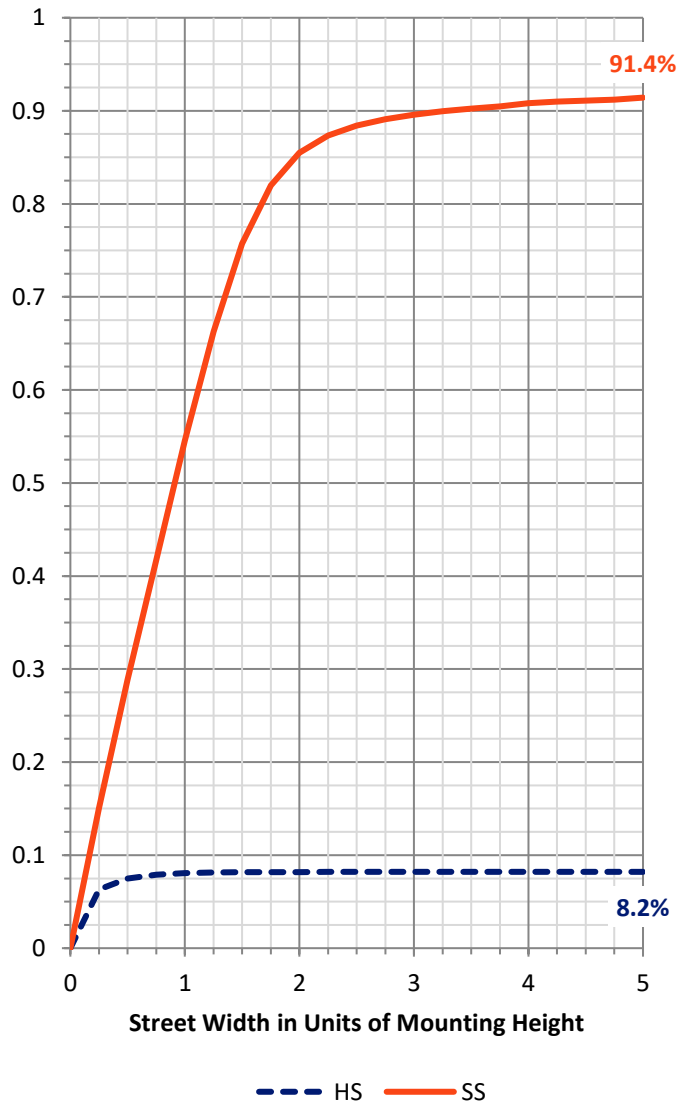
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3853.6	0.0	3853.6
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	42767.9	0.0	42767.9
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	46621.5	0.0	46621.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1048.0	2.2
10°-20°	2173.8	4.7
20°-30°	2884.2	6.2
30°-40°	3996.6	8.6
40°-50°	6521.2	14.0
50°-60°	11462.2	24.6
60°-70°	12695.3	27.2
70°-80°	5261.0	11.3
80°-90°	579.1	1.2
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°	46621.5	100.0
0°-180°	46621.5	100.0

**Coefficient of Utilization**



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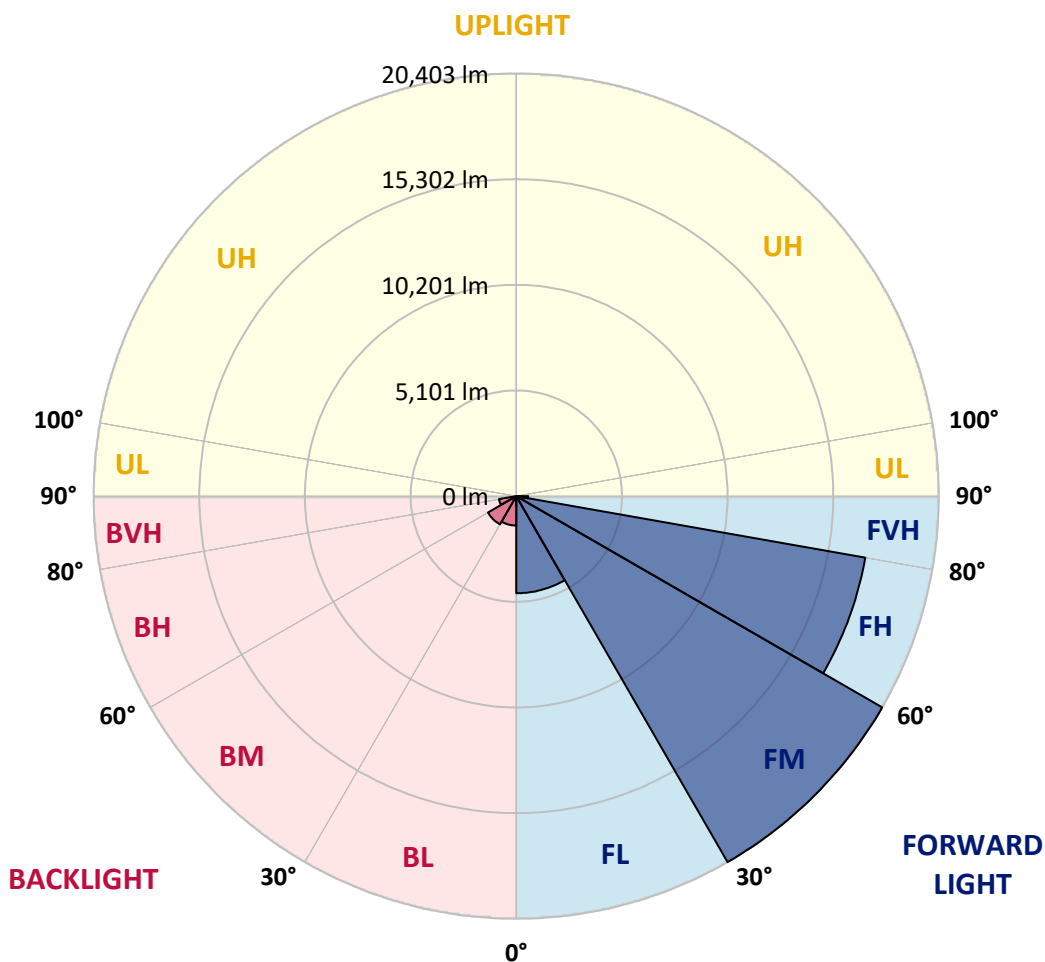
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4686.8	10.1			
FM (30°-60°)	20402.5	43.8			
FH (60°-80°)	17109.0	36.7			G5
FVH (80°-90°)	569.6	1.2			G4/750
BL (0°-30°)	1419.3	3.0	B3/2500		
BM (30°-60°)	1577.5	3.4	B2/2500		
BH (60°-80°)	847.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5
2.5°	14372.1	14421.7	14465.0	14384.5	14452.6	14353.6	14099.8	14044.1	14000.8	13623.2	13406.6
5°	14366.0	14310.2	14353.6	14390.7	14297.9	14372.1	14310.2	14316.4	14149.3	13808.9	13202.3
7.5°	13406.6	13381.8	13406.6	13586.1	13790.3	13951.3	14044.1	14136.9	14025.5	13518.0	12930.0
10°	12113.0	12236.7	12304.8	12626.7	12942.4	13239.5	13530.4	13703.7	13672.7	13468.5	12632.9
12.5°	11209.3	11172.1	11419.7	11630.2	11945.8	12546.2	13053.8	13214.7	13400.4	13115.7	12242.9
15°	10373.7	10274.7	10423.2	10788.4	11326.9	11803.5	12515.3	12756.7	12991.9	13066.1	12032.5
17.5°	9575.2	9624.8	9779.5	10107.5	10615.1	11283.6	11952.0	12298.6	12861.9	12762.9	11716.8
20°	9191.5	9296.7	9352.4	9519.5	9872.3	10540.8	11537.3	11815.9	12416.2	12756.7	11407.3
22.5°	9210.1	9210.1	9080.1	9179.1	9501.0	10020.9	10974.1	11283.6	12236.7	12434.8	11128.8
25°	9408.1	9284.3	9290.5	9172.9	9309.1	9593.8	10466.5	10844.1	11871.6	12465.8	10980.3
27.5°	9556.7	9531.9	9494.8	9463.8	9290.5	9333.8	10132.3	10441.8	11729.2	12428.6	10751.3
30°	10095.2	9983.7	9946.6	9878.5	9649.5	9439.1	9866.1	10256.1	11617.8	12515.3	10621.3
32.5°	10547.0	10565.6	10596.5	10398.4	10200.4	9680.5	9940.4	10249.9	11537.3	12713.3	10751.3
35°	11116.4	11196.9	11209.3	11147.4	10936.9	10423.2	10249.9	10516.0	11673.5	13066.1	10763.6
37.5°	11983.0	11896.3	12131.5	12156.3	12007.7	11326.9	10967.9	11073.1	12075.8	13629.4	11234.0
40°	12546.2	12651.4	13090.9	13363.2	13109.5	12490.5	12007.7	11989.2	12657.6	14514.5	11815.9
42.5°	13171.4	13406.6	13889.4	14477.4	14446.4	13870.8	13381.8	13301.3	13691.3	15795.7	12738.1
45°	14025.5	14236.0	14910.6	15795.7	16278.5	15789.5	15053.0	14892.1	14947.8	17541.2	14310.2
47.5°	15442.9	15387.2	16359.0	17231.7	18024.0	17646.4	17330.7	16860.3	16817.0	19596.1	16482.8
50°	17046.0	17033.6	17900.2	18890.5	19806.6	20543.1	20017.0	19503.3	19515.7	22387.6	19039.1
52.5°	18568.7	18810.0	19744.7	20728.8	22301.0	23093.2	23600.8	23396.5	22412.4	24882.0	21774.8
55°	19373.3	19583.7	20512.2	22208.1	24690.1	26726.5	28100.6	27927.3	26027.1	27692.1	24473.5
57.5°	18612.0	18754.3	20010.8	22232.9	26361.3	30904.4	32222.8	32006.2	29765.6	29839.8	27735.4
60°	15424.4	15647.2	17516.4	20122.2	25711.4	34123.0	37898.6	37570.6	33169.8	32557.0	29833.6
62.5°	10683.2	10831.7	12366.7	15610.1	22629.0	35243.3	43258.8	43438.3	36759.8	34673.9	30458.8
65°	6919.9	6907.5	7786.5	9983.7	16037.1	31851.4	46427.8	47542.0	40225.9	34995.7	30266.9
67°	4889.7	4871.2	5285.9	6771.4	11104.1	26243.7	46372.1	48767.5	42107.5	35088.6	28490.5
67.5°	4512.2	4493.6	4889.7	6226.7	10020.9	24405.4	45678.9	48136.1	42769.8	34958.6	27710.6
70°	3503.3	3453.8	3602.3	4289.4	5836.7	15783.4	39093.2	44218.2	41395.7	31715.3	22127.7
72.5°	2531.5	2587.2	2822.4	3521.9	4580.3	8492.1	29796.5	35757.0	34574.8	23904.1	14062.7
75°	1764.0	1813.5	2191.1	2872.0	4202.7	5149.7	20147.0	25934.2	24083.5	13196.1	5991.5
77.5°	922.2	984.1	1398.8	2296.3	3819.0	3986.1	12038.7	16445.6	12762.9	4697.9	1652.6
80°	427.1	458.0	699.4	1627.9	3193.8	3503.3	7019.0	9148.2	5106.4	1052.2	569.4
82.5°	185.7	204.3	321.9	934.6	2265.4	3063.8	4345.1	4796.9	1850.7	340.4	352.8
85°	37.1	43.3	123.8	495.2	1095.6	1856.9	3051.4	2847.2	928.4	167.1	278.5
87.5°	0.0	0.0	30.9	142.4	297.1	550.9	1293.6	1293.6	284.7	86.7	105.2
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°	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5	13208.5
2.5°	13214.7	12991.9	12502.9	12051.1	11729.2	11364.0	10881.2	10664.6	10584.1	10472.7	10305.6
5°	12868.1	12595.7	11760.1	10918.4	9996.1	9296.7	8554.0	8120.7	7792.6	7588.4	7520.3
7.5°	12379.1	11822.0	10695.5	9346.2	8151.6	7111.8	5985.3	5224.0	4735.0	4536.9	4351.3
10°	11989.2	11265.0	9550.5	7873.1	6282.4	4759.8	3490.9	2822.4	2314.9	2123.0	2098.3
12.5°	11481.6	10615.1	8479.7	6369.0	4369.8	2834.8	1931.1	1677.4	1535.0	1510.3	1491.7
15°	11060.7	10027.1	7464.6	4933.1	2828.6	1770.2	1504.1	1442.2	1405.0	1392.6	1398.8
17.5°	10776.0	9395.7	6424.8	3589.9	1863.1	1448.4	1386.5	1349.3	1330.8	1324.6	1306.0
20°	10212.8	8863.4	5397.3	2513.0	1454.5	1336.9	1287.4	1256.5	1237.9	1231.7	1225.5
22.5°	9890.9	8188.8	4369.8	1751.6	1293.6	1213.2	1176.0	1151.3	1120.3	1101.7	1095.6
25°	9569.0	7693.6	3453.8	1361.7	1176.0	1120.3	1064.6	1033.7	984.1	959.4	953.2
27.5°	9191.5	7204.6	2661.5	1182.2	1058.4	1002.7	947.0	897.5	835.6	810.8	798.5
30°	8974.9	6728.0	2005.4	1058.4	971.8	897.5	829.4	767.5	699.4	656.1	643.7
32.5°	8863.4	6294.8	1504.1	965.6	878.9	798.5	711.8	637.5	575.6	538.5	532.3
35°	8727.3	5873.9	1182.2	878.9	792.3	705.6	619.0	544.7	482.8	451.8	439.5
37.5°	8869.6	5626.3	984.1	810.8	724.2	625.1	532.3	458.0	408.5	377.6	371.4
40°	9259.6	5422.0	854.2	748.9	656.1	550.9	464.2	389.9	346.6	321.9	309.5
42.5°	9860.0	5422.0	773.7	687.0	594.2	482.8	396.1	340.4	297.1	272.3	266.2
45°	10949.3	5589.2	705.6	625.1	519.9	414.7	340.4	284.7	241.4	216.6	210.4
47.5°	12478.1	5972.9	649.9	569.4	464.2	365.2	297.1	241.4	198.1	173.3	167.1
50°	14533.1	6845.6	594.2	501.4	414.7	315.7	247.6	191.9	154.7	130.0	123.8
52.5°	17095.5	8083.6	538.5	464.2	352.8	266.2	198.1	154.7	117.6	99.0	92.8
55°	19806.6	9600.0	470.4	414.7	303.3	222.8	160.9	117.6	86.7	74.3	68.1
57.5°	22536.2	10769.8	414.7	359.0	247.6	179.5	130.0	92.8	61.9	49.5	43.3
60°	23984.5	10881.2	359.0	297.1	198.1	142.4	99.0	68.1	43.3	30.9	24.8
62.5°	24207.3	9890.9	309.5	241.4	160.9	111.4	68.1	49.5	24.8	12.4	12.4
65°	23062.3	8244.5	266.2	191.9	123.8	80.5	49.5	30.9	12.4	6.2	0.0
67°	21205.4	6907.5	229.0	160.9	99.0	61.9	37.1	18.6	6.2	0.0	0.0
67.5°	20487.4	6536.2	216.6	148.5	92.8	55.7	30.9	18.6	6.2	0.0	0.0
70°	15901.0	4666.9	160.9	105.2	68.1	43.3	24.8	12.4	0.0	0.0	0.0
72.5°	9742.4	2729.6	123.8	74.3	49.5	30.9	18.6	6.2	0.0	0.0	0.0
75°	4085.1	940.8	105.2	55.7	37.1	18.6	12.4	6.2	0.0	0.0	0.0
77.5°	1064.6	352.8	74.3	37.1	24.8	18.6	12.4	6.2	0.0	0.0	0.0
80°	433.3	160.9	49.5	24.8	24.8	18.6	12.4	6.2	0.0	0.0	0.0
82.5°	284.7	74.3	30.9	24.8	18.6	12.4	6.2	0.0	0.0	0.0	0.0
85°	216.6	43.3	18.6	18.6	12.4	6.2	0.0	0.0	0.0	0.0	0.0
87.5°	92.8	24.8	18.6	12.4	12.4	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)