

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: P484726

Luminaire Tested: **IFLD-S-SA6D-730-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484726  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-730-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

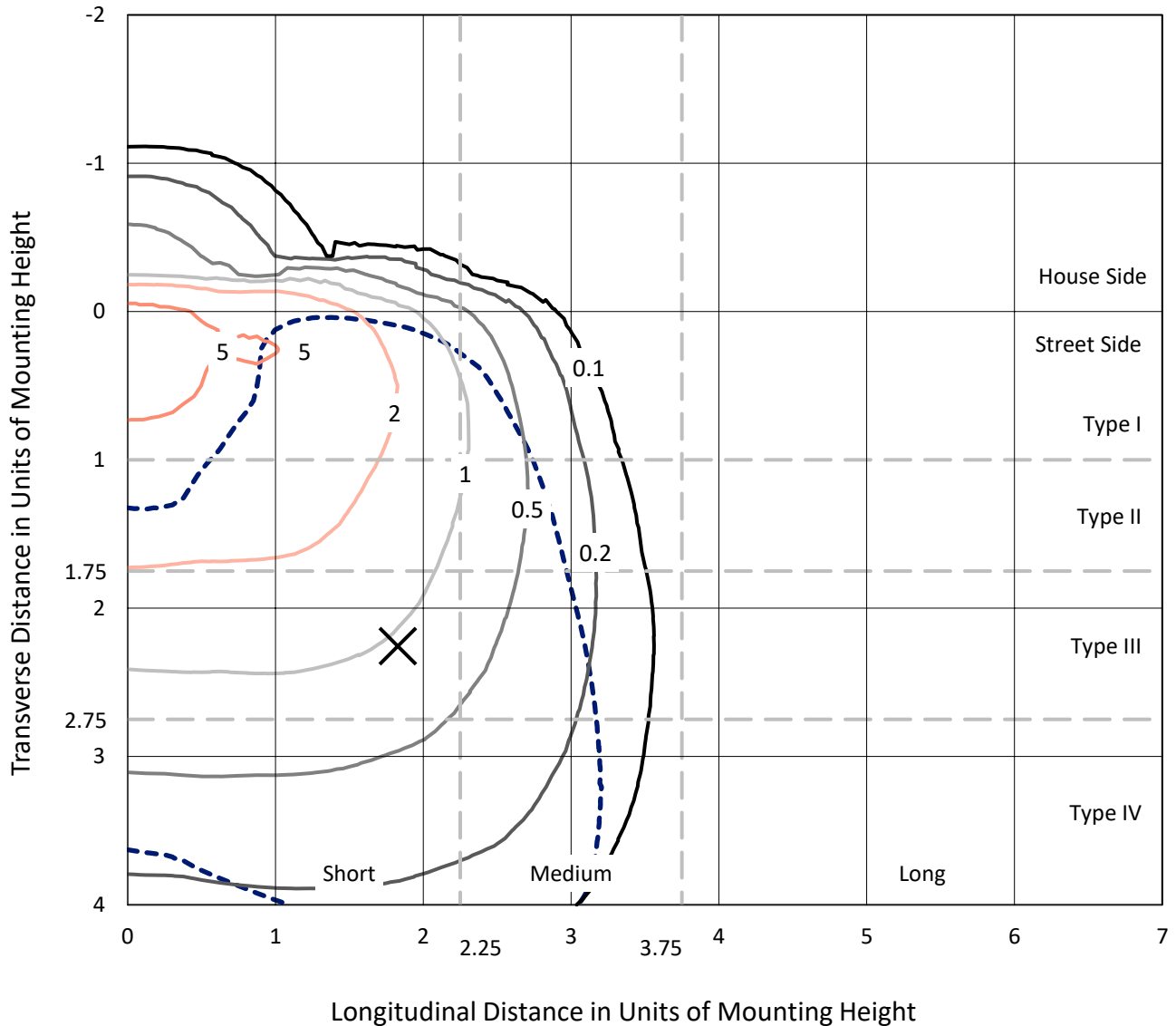
Lumens per Lamp: N/A  
Luminaire Lumens: 34394.8 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 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

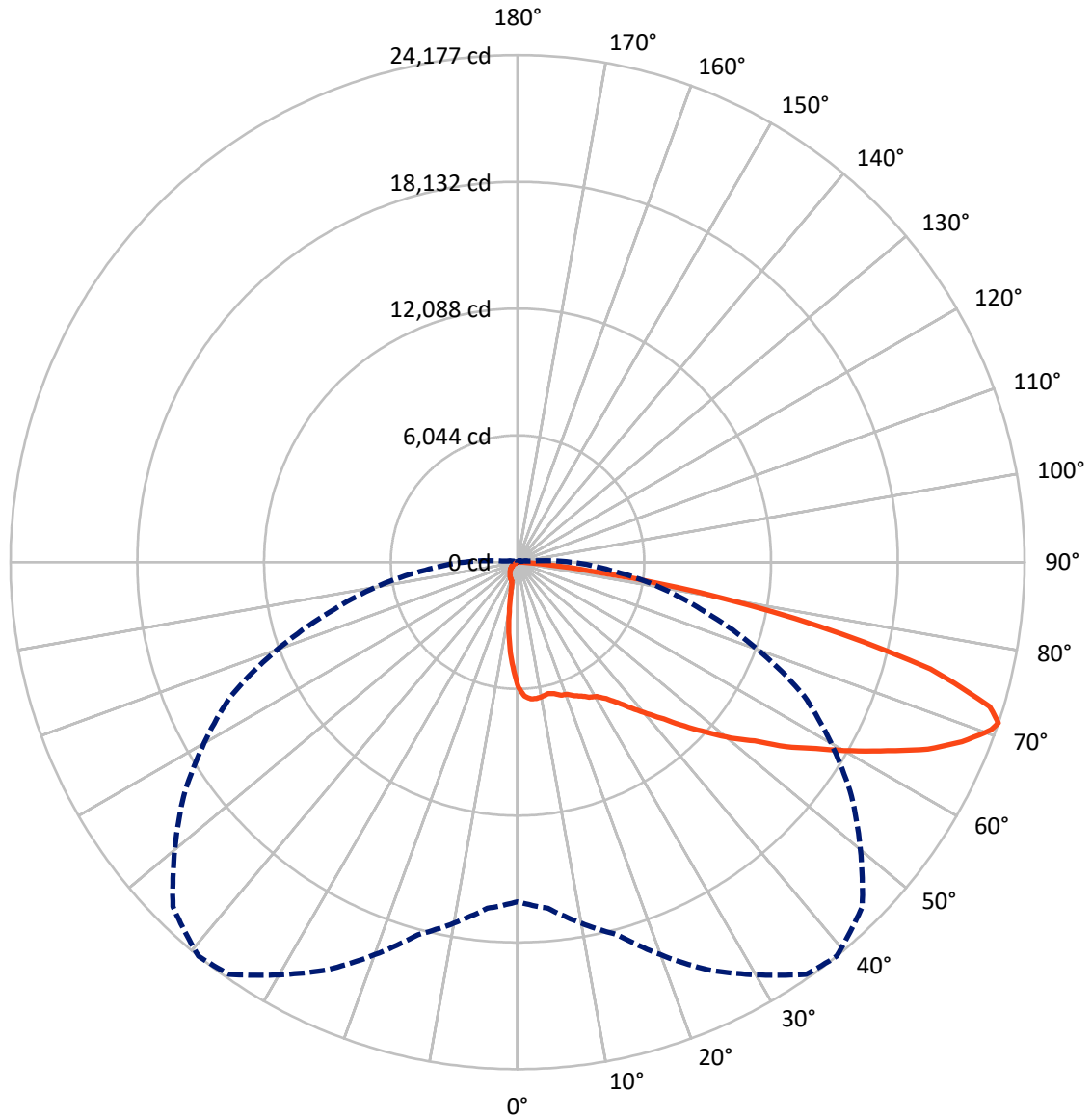
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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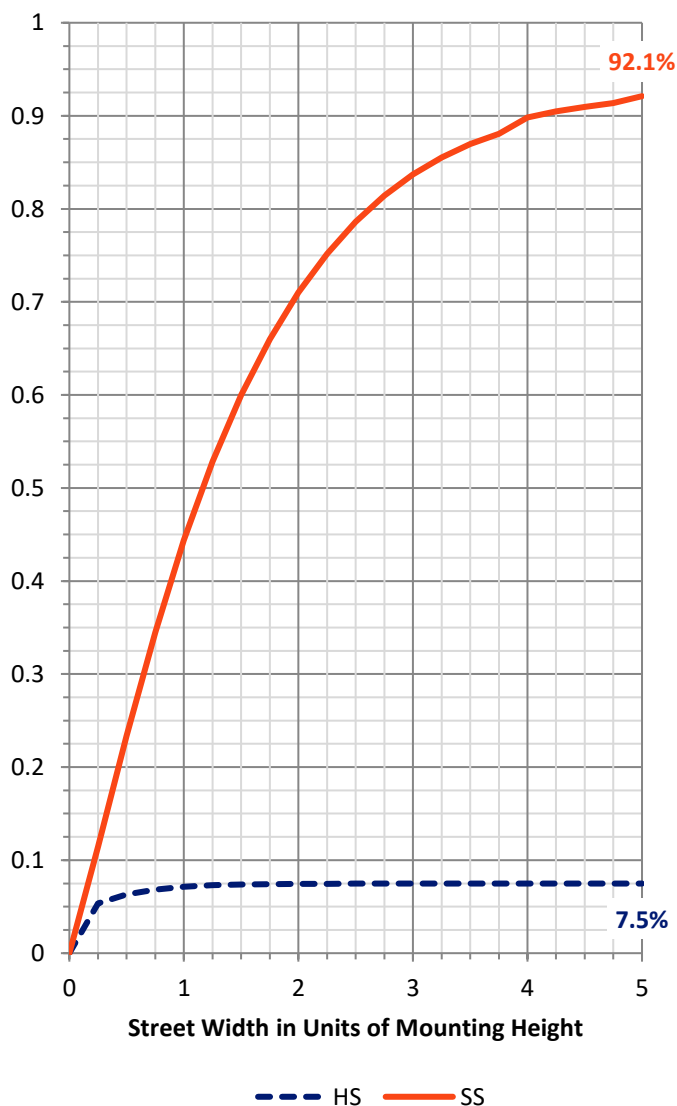
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2589.4	0.0	2589.4
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	31805.5	0.0	31805.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	34394.8	0.0	34394.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.5	1.5
10°-20°	1232.0	3.6
20°-30°	1977.7	5.8
30°-40°	3027.4	8.8
40°-50°	4859.5	14.1
50°-60°	7137.8	20.8
60°-70°	8989.8	26.1
70°-80°	5999.6	17.4
80°-90°	670.5	1.9
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°	34394.8	100.0
0°-180°	34394.8	100.0

**Coefficient of Utilization**



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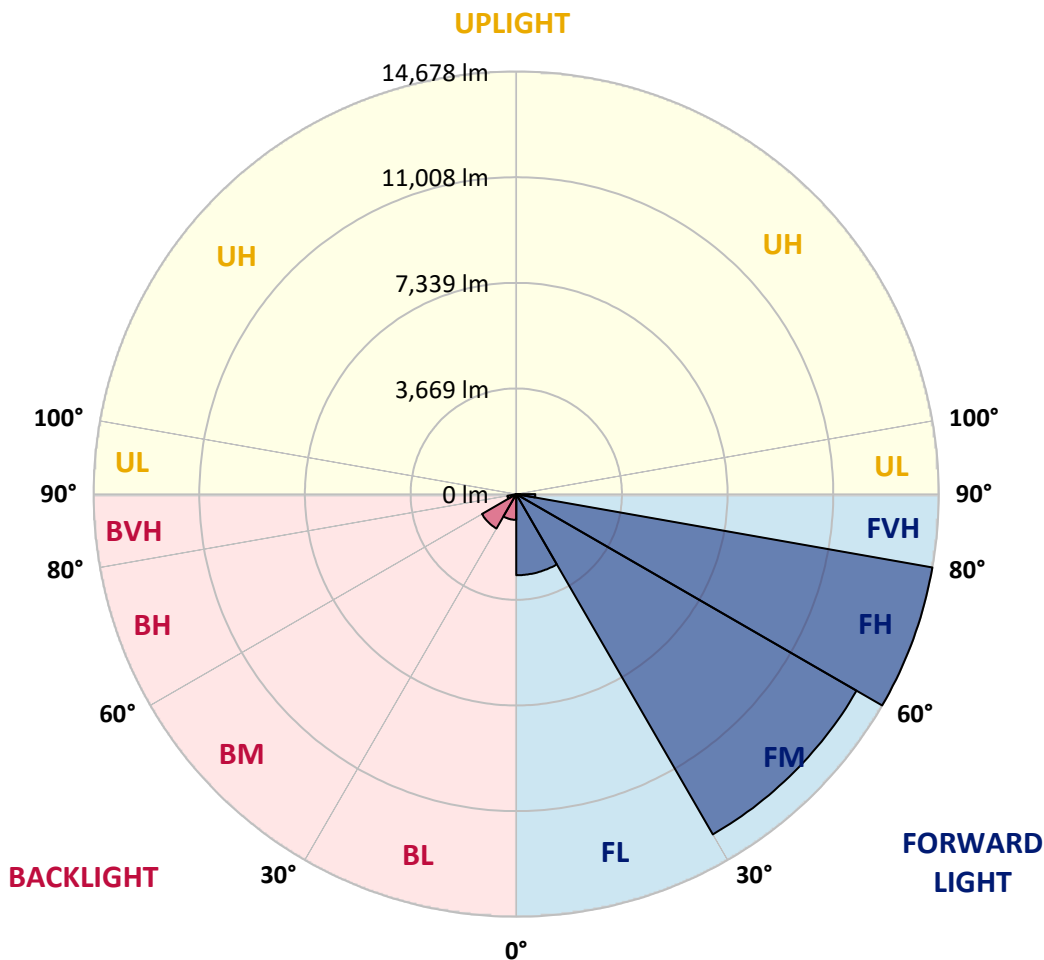
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2816.2	8.2			
FM (30°-60°)	13648.4	39.7			
FH (60°-80°)	14677.8	42.7			G5
FVH (80°-90°)	663.1	1.9			G4/750
BL (0°-30°)	894.0	2.6	B2/1000		
BM (30°-60°)	1376.4	4.0	B2/2500		
BH (60°-80°)	311.7	0.9	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: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6
2.5°	6451.3	6514.5	6451.3	6424.2	6397.2	6401.7	6329.5	6343.0	6257.3	6144.5	6054.3
5°	6654.3	6740.0	6672.4	6640.8	6636.3	6550.6	6514.5	6428.8	6325.0	6149.0	6040.8
7.5°	6636.3	6618.2	6649.8	6622.7	6564.1	6564.1	6523.5	6401.7	6297.9	6099.4	5914.5
10°	6500.9	6555.1	6528.0	6496.4	6510.0	6514.5	6437.8	6352.1	6320.5	6122.0	5819.7
12.5°	6487.4	6397.2	6496.4	6500.9	6442.3	6437.8	6428.8	6406.2	6306.9	6126.5	5842.3
15°	6442.3	6406.2	6505.5	6510.0	6523.5	6510.0	6523.5	6505.5	6406.2	6302.4	5941.5
17.5°	6478.4	6437.8	6577.6	6645.3	6613.7	6676.9	6654.3	6573.1	6487.4	6365.6	6036.3
20°	6487.4	6546.1	6699.4	6726.5	6825.8	6722.0	6717.5	6631.8	6577.6	6446.8	6094.9
22.5°	6654.3	6681.4	6870.9	6929.5	6934.0	6920.5	6807.7	6708.5	6685.9	6523.5	6108.4
25°	6907.0	7001.7	7087.4	7123.5	7137.0	7073.9	6956.6	6830.3	6776.1	6672.4	6248.3
27.5°	7353.6	7294.9	7371.6	7425.8	7272.4	7294.9	7146.1	7037.8	6961.1	6870.9	6410.7
30°	7750.6	7696.5	7701.0	7692.0	7561.1	7439.3	7398.7	7209.2	7114.5	7150.6	6663.4
32.5°	8107.0	7989.7	8089.0	8043.8	7800.2	7764.1	7732.6	7493.4	7511.5	7678.4	7042.3
35°	8436.3	8395.7	8476.9	8395.7	8233.3	8224.3	8192.7	7985.2	8084.4	8323.5	7692.0
37.5°	8738.6	8752.1	8851.4	8810.8	8824.3	8833.3	8815.3	8594.2	8878.5	9415.3	8449.9
40°	9018.3	9000.3	9243.9	9370.2	9397.3	9496.5	9496.5	9442.4	9880.0	10484.5	9501.0
42.5°	9316.1	9361.2	9677.0	9889.0	10146.2	10231.9	10349.2	10376.2	11053.0	11743.2	10574.7
45°	9803.3	9726.6	10128.1	10628.9	10854.4	11156.7	11337.2	11490.6	12307.1	13254.5	11648.5
47.5°	10421.4	10268.0	10619.9	11346.2	11869.5	12117.6	12442.5	12645.5	13444.0	14423.0	12663.5
50°	11107.1	10949.2	11120.6	12122.2	12731.2	13182.3	13597.4	13854.5	14820.0	15731.3	13403.4
52.5°	11883.1	11738.7	11765.8	12929.7	13827.5	14156.8	14702.7	15086.2	16047.1	16520.8	13665.1
55°	12708.6	12672.5	12586.8	13719.2	14788.4	15528.3	15857.6	16317.8	17305.8	16949.4	13949.3
57.5°	13538.7	13426.0	13547.8	14765.8	16331.3	16773.4	17229.1	17504.3	18005.0	17323.8	13841.0
60°	14319.2	14328.2	14499.7	15902.7	17644.1	18271.2	18681.7	18514.8	18722.3	17486.2	13592.9
62.5°	14977.9	14959.8	15392.9	17179.4	19381.0	19805.1	20111.9	19367.5	19056.2	17644.1	13159.8
65°	15568.9	15771.9	16453.1	18699.8	21014.1	21501.4	21316.4	20175.0	19381.0	17179.4	11941.7
67.5°	16015.5	16317.8	17499.8	20129.9	22511.9	22854.8	22597.6	20788.6	18997.5	15356.8	9726.6
70°	16277.2	16583.9	18248.6	21320.9	23707.5	23955.6	23351.1	20314.9	16759.9	11120.6	6067.8
71°	16196.0	16570.4	18393.0	21447.2	23991.7	24176.6	23238.3	19439.7	15072.6	9311.5	4425.7
72.5°	15460.6	15812.5	17793.0	21357.0	23648.8	23536.0	22358.5	17337.3	11865.0	5937.0	2287.3
75°	11359.7	11738.7	15271.1	18474.2	21108.9	20332.9	18095.3	12167.3	6189.7	1818.1	667.7
77.5°	5657.3	5720.5	9478.5	13412.4	15483.2	14711.7	12126.7	6785.2	2314.4	536.9	333.8
80°	2607.6	2625.6	3555.0	6947.6	9361.2	8810.8	6794.2	3347.5	1046.6	284.2	261.7
82.5°	1777.5	1804.6	2142.9	2878.3	4064.8	3428.7	2752.0	2142.9	600.0	171.4	257.2
85°	324.8	297.8	1200.0	1524.9	1570.0	1064.7	951.9	1854.2	225.6	99.3	225.6
87.5°	0.0	4.5	166.9	622.6	559.4	248.1	324.8	451.1	22.6	31.6	40.6
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°	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6	5986.6
2.5°	5977.6	5928.0	5761.1	5576.1	5409.2	5278.3	5111.4	5034.7	4912.9	4845.3	4840.7
5°	5891.9	5756.6	5467.8	5156.5	4809.2	4520.4	4200.1	4019.7	3812.1	3749.0	3735.4
7.5°	5747.5	5553.5	5129.5	4691.9	4159.5	3649.7	3257.2	2837.7	2580.5	2472.3	2431.6
10°	5657.3	5422.7	4845.3	4191.1	3446.7	2729.4	2179.0	1732.4	1497.8	1385.0	1357.9
12.5°	5657.3	5404.7	4615.2	3712.9	2724.9	1867.7	1348.9	1091.8	1015.1	988.0	988.0
15°	5643.8	5368.6	4394.1	3221.1	2016.6	1254.2	1006.0	951.9	942.9	938.4	933.9
17.5°	5711.4	5305.4	4168.5	2693.3	1425.6	988.0	924.8	915.8	906.8	906.8	897.8
20°	5761.1	5269.3	3897.9	2133.9	1064.7	915.8	888.7	875.2	870.7	866.2	875.2
22.5°	5720.5	5215.2	3564.0	1597.0	929.4	870.7	852.7	839.1	830.1	830.1	834.6
25°	5797.2	5165.6	3230.2	1204.5	870.7	830.1	812.1	803.0	798.5	794.0	785.0
27.5°	5900.9	5188.1	2833.2	970.0	821.1	789.5	771.5	762.4	757.9	748.9	757.9
30°	6027.2	5183.6	2395.6	848.1	776.0	744.4	726.3	721.8	712.8	708.3	712.8
32.5°	6243.8	5300.9	1944.4	785.0	726.3	699.3	681.2	676.7	672.2	667.7	663.2
35°	6708.5	5445.3	1520.3	735.4	681.2	649.6	636.1	627.1	622.6	618.1	613.6
37.5°	7281.4	5765.6	1159.4	690.2	636.1	604.5	591.0	586.5	568.4	563.9	559.4
40°	7998.7	6108.4	893.3	640.6	595.5	563.9	550.4	536.9	514.3	505.3	496.3
42.5°	8892.0	6442.3	735.4	595.5	550.4	527.8	505.3	482.7	464.7	446.6	437.6
45°	9785.2	6830.3	645.1	554.9	514.3	487.2	469.2	437.6	406.0	379.0	374.4
47.5°	10529.6	6970.1	591.0	509.8	478.2	455.7	428.6	388.0	342.9	315.8	311.3
50°	11084.5	6888.9	536.9	464.7	437.6	415.0	379.0	329.3	284.2	257.2	248.1
52.5°	11192.8	6532.5	487.2	428.6	397.0	369.9	329.3	275.2	225.6	198.5	194.0
55°	11116.1	5941.5	446.6	397.0	360.9	320.3	275.2	221.1	175.9	148.9	144.4
57.5°	10958.2	5242.3	401.5	356.4	315.8	275.2	225.6	180.5	130.8	103.8	103.8
60°	10421.4	4290.3	356.4	311.3	270.7	234.6	185.0	130.8	90.2	67.7	63.2
62.5°	9672.5	3297.8	311.3	266.2	234.6	194.0	144.4	94.7	54.1	36.1	36.1
65°	8305.5	2309.8	261.7	221.1	194.0	157.9	108.3	58.6	31.6	13.5	13.5
67.5°	6311.5	1430.1	216.5	185.0	166.9	126.3	76.7	36.1	13.5	4.5	0.0
70°	3622.7	744.4	171.4	148.9	130.8	94.7	54.1	18.0	9.0	0.0	0.0
71°	2530.9	550.4	153.4	130.8	117.3	85.7	45.1	13.5	4.5	0.0	0.0
72.5°	1267.7	365.4	130.8	108.3	94.7	67.7	36.1	13.5	4.5	0.0	0.0
75°	451.1	234.6	90.2	72.2	67.7	49.6	22.6	9.0	4.5	0.0	0.0
77.5°	311.3	189.5	63.2	45.1	45.1	31.6	13.5	4.5	4.5	0.0	0.0
80°	284.2	103.8	40.6	27.1	22.6	18.0	9.0	4.5	0.0	0.0	0.0
82.5°	284.2	76.7	22.6	18.0	13.5	9.0	4.5	0.0	0.0	0.0	0.0
85°	198.5	40.6	13.5	13.5	9.0	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	31.6	13.5	9.0	4.5	4.5	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)