

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: P484156

Luminaire Tested: **IFLD-L-SA8D-827-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484156  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-827-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2  
distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

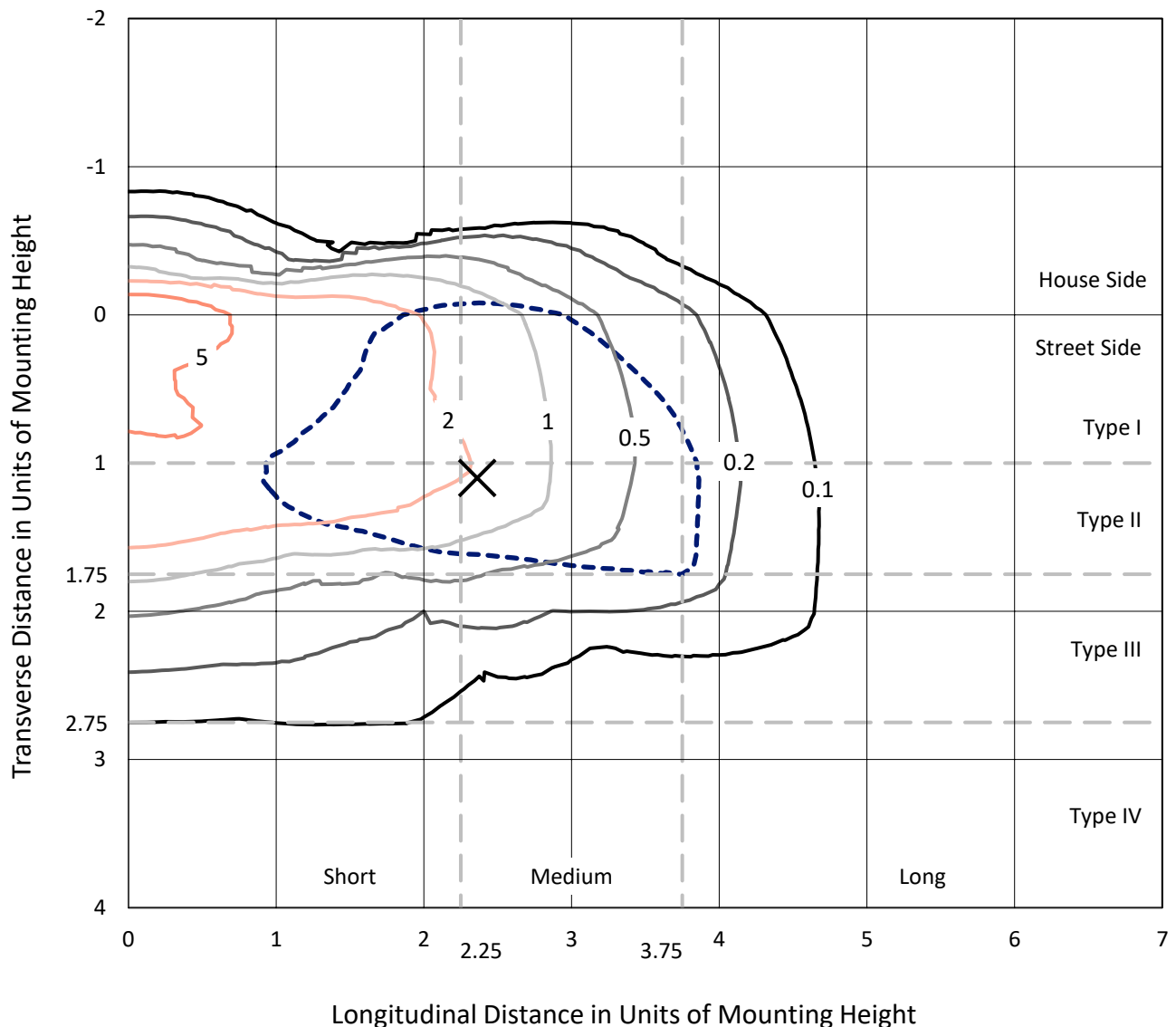
Lumens per Lamp: N/A  
Luminaire Lumens: 33728.7 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

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

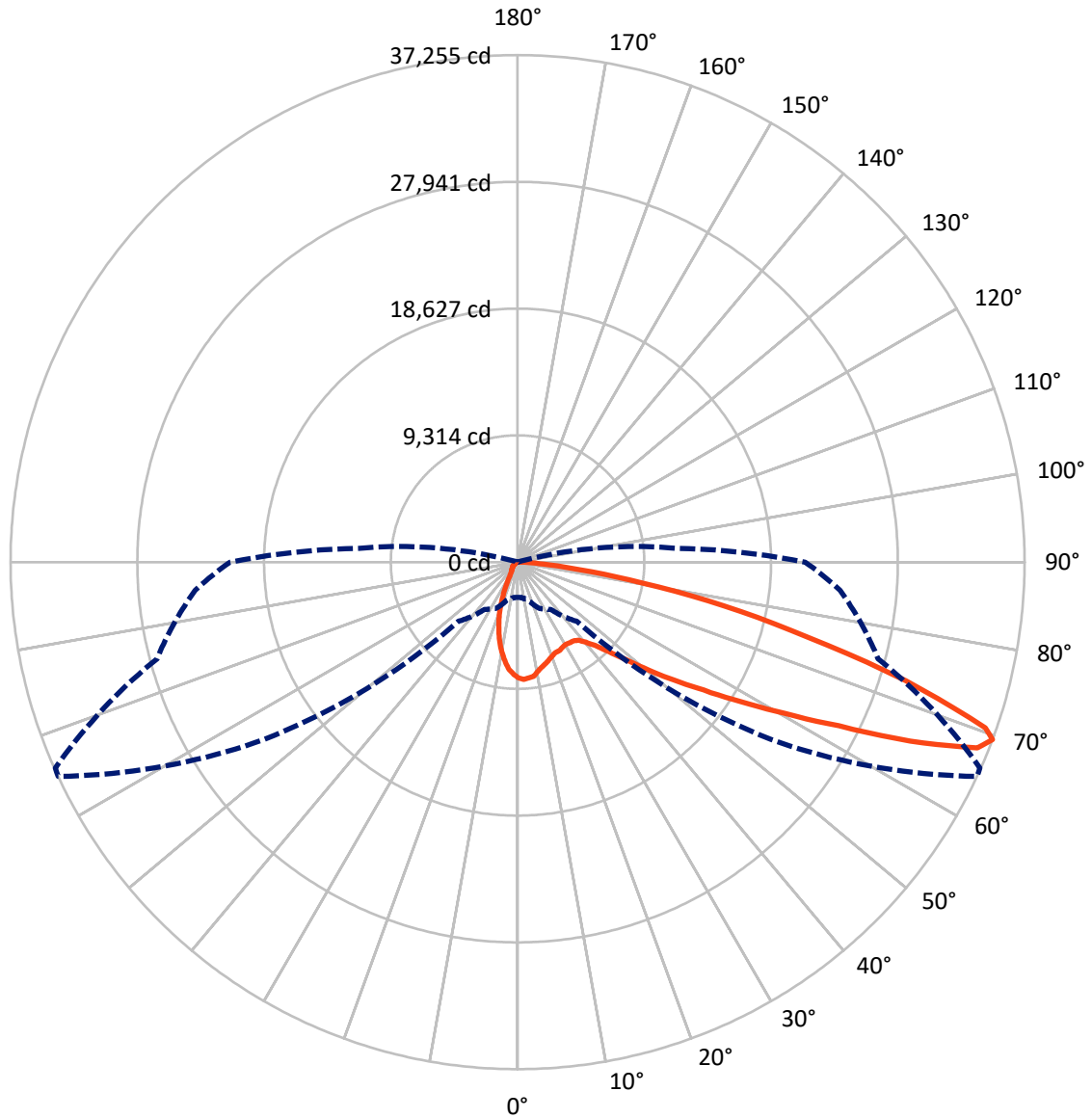
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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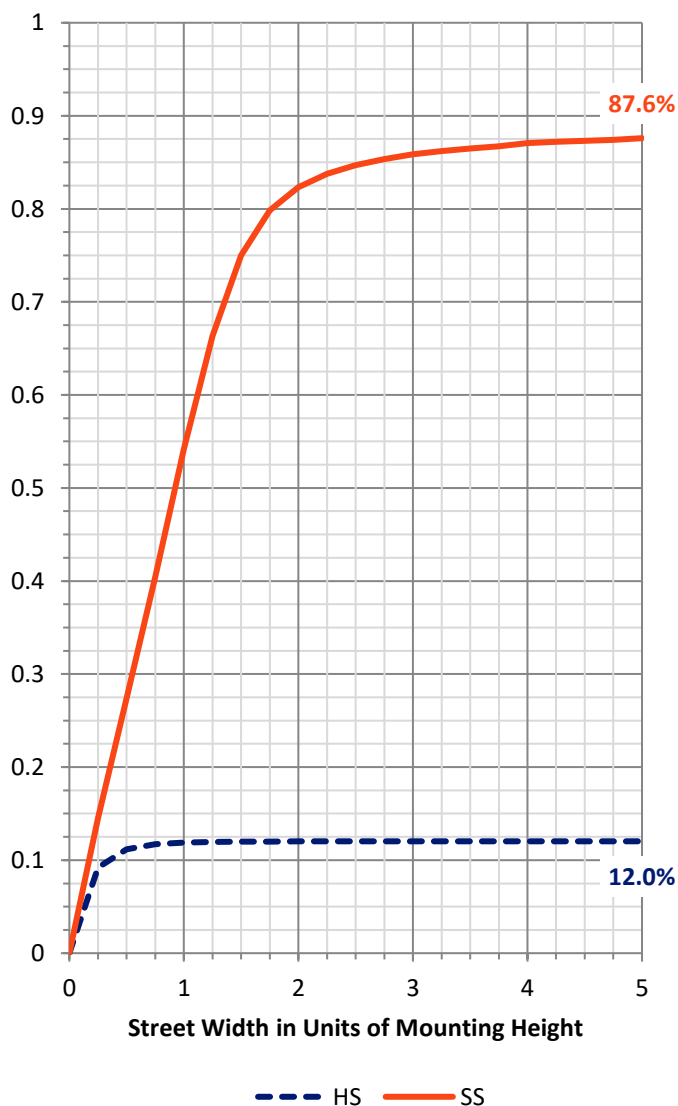
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4091.5	0.0	4091.5
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	29637.3	0.0	29637.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	33728.7	0.0	33728.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	695.9	2.1
10°-20°	1522.6	4.5
20°-30°	2119.8	6.3
30°-40°	3003.9	8.9
40°-50°	4734.1	14.0
50°-60°	7681.8	22.8
60°-70°	8579.0	25.4
70°-80°	4831.0	14.3
80°-90°	560.6	1.7
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°	33728.7	100.0
0°-180°	33728.7	100.0

**Coefficient of Utilization**



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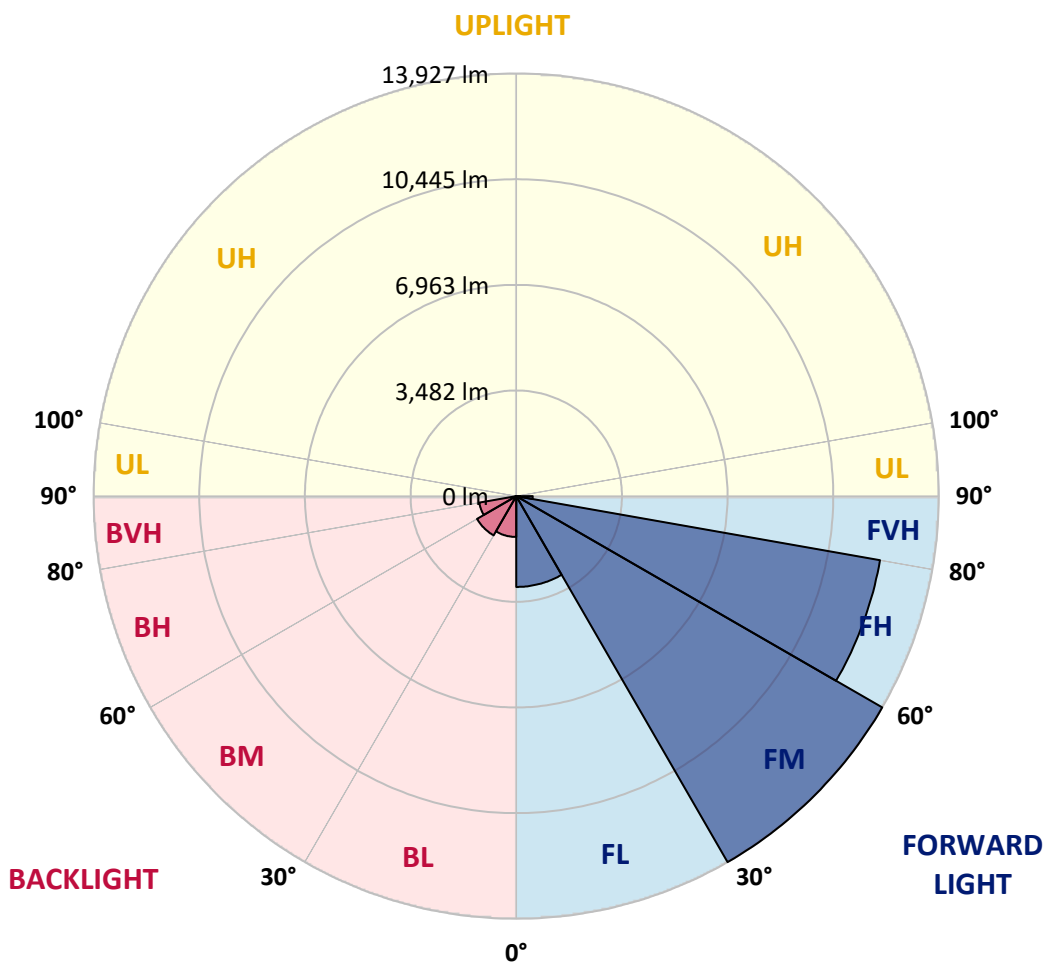
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2993.1	8.9			
FM (30°-60°)	13926.9	41.3			
FH (60°-80°)	12172.1	36.1			G5
FVH (80°-90°)	545.1	1.6			G4/750
BL (0°-30°)	1345.2	4.0	B3/2500		
BM (30°-60°)	1492.9	4.4	B2/2500		
BH (60°-80°)	1237.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	15.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8
2.5°	8189.9	8253.6	8271.8	8335.5	8367.3	8503.8	8581.2	8626.7	8603.9	8654.0	8658.5
5°	7607.5	7571.1	7666.6	7734.9	7880.5	8117.1	8358.2	8544.8	8631.2	8713.1	8699.5
7.5°	6984.1	6965.9	7061.5	7216.2	7348.1	7634.8	8021.5	8481.1	8462.9	8663.1	8722.2
10°	6556.4	6574.6	6606.5	6761.2	6956.8	7248.0	7730.3	8158.0	8253.6	8676.7	8795.0
12.5°	6165.1	6197.0	6256.1	6415.4	6642.9	6943.2	7411.8	7912.3	8057.9	8599.4	8835.9
15°	6037.7	5964.9	6083.2	6201.5	6438.1	6706.6	7102.4	7725.8	7789.5	8508.4	8904.2
17.5°	5933.1	5887.6	5942.2	6037.7	6288.0	6506.4	6879.5	7525.6	7643.9	8472.0	8895.1
20°	5964.9	5924.0	5946.7	6019.5	6133.3	6338.0	6683.8	7334.5	7461.9	8303.6	8881.4
22.5°	6055.9	6087.8	6046.8	6065.0	6101.4	6206.1	6579.2	7198.0	7307.2	8271.8	8958.8
25°	6465.4	6410.8	6356.2	6333.5	6119.6	6165.1	6547.3	7188.9	7266.2	8158.0	8895.1
27.5°	6893.1	6847.6	6824.9	6692.9	6401.7	6265.2	6551.9	7061.5	7166.1	8112.5	8817.8
30°	7411.8	7471.0	7380.0	7220.7	6815.8	6479.1	6601.9	6997.8	7143.4	7939.6	8767.7
32.5°	7957.8	7989.7	8035.2	7916.9	7393.6	6802.1	6752.1	7056.9	7066.0	7939.6	8654.0
35°	8576.6	8531.1	8649.4	8658.5	8199.0	7375.4	7038.7	7097.9	7193.4	7903.2	8613.0
37.5°	9108.9	9186.3	9322.8	9541.2	9068.0	8185.3	7484.6	7289.0	7329.9	8071.6	8644.9
40°	9691.3	9768.7	10078.1	10296.5	10028.0	9095.3	8162.6	7734.9	7766.7	8321.8	8808.7
42.5°	10332.9	10483.0	10851.6	11233.8	11161.0	10251.0	9036.1	8390.1	8376.4	8945.1	9145.3
45°	11201.9	11402.1	11802.5	12243.8	12307.5	11575.0	10200.9	9368.3	9413.8	9759.6	9841.5
47.5°	12412.2	12403.1	12794.4	13285.8	13654.3	12949.1	11593.2	10683.2	10678.7	11047.2	10874.3
50°	13581.5	13586.1	13690.7	14259.5	15214.9	14855.5	13317.6	12430.4	12380.3	12562.3	12284.8
52.5°	14123.0	14059.3	13981.9	14669.0	16416.1	17257.9	15501.6	14409.6	14368.7	14259.5	14186.7
55°	13554.2	13577.0	13572.4	14286.8	17048.6	19792.2	18304.3	16589.0	16520.8	16179.5	16279.6
57.5°	11729.7	11656.9	11816.1	12930.9	16325.1	21521.1	22312.8	19337.2	19159.7	18026.8	17799.3
60°	8731.3	8754.1	8886.0	10200.9	14527.9	21885.1	26148.4	22563.1	21798.7	19328.1	19014.1
62.5°	6096.9	6051.4	6101.4	6838.5	10387.5	20429.2	28741.9	26485.1	25748.0	20806.8	20624.8
65°	4363.4	4304.2	4504.4	4954.9	6237.9	15619.9	29110.4	31708.4	31048.7	23168.2	22731.4
67.5°	3139.4	3130.3	3362.4	4181.4	4431.6	8995.2	26380.5	36440.3	36039.9	25971.0	24014.5
69°	2598.0	2602.6	2825.5	3744.6	4231.4	6142.4	22699.6	37254.8	37182.0	27417.8	23773.3
70°	2265.9	2284.1	2543.4	3485.2	4149.5	5050.4	19569.2	36454.0	36381.2	27699.9	22977.1
72.5°	1396.8	1410.5	1751.7	2793.7	3944.8	4122.2	11702.4	29824.7	30075.0	26407.8	19796.7
75°	668.8	673.4	919.1	2020.2	3803.7	3908.4	6269.8	22008.0	22535.8	21320.9	15469.7
77.5°	354.9	354.9	441.3	1073.8	3080.3	3676.3	3721.8	15524.3	15961.1	13481.4	8795.0
80°	177.4	182.0	268.4	559.6	1911.0	3603.5	2907.4	9259.1	9495.7	5500.9	2739.1
82.5°	68.2	72.8	127.4	336.7	991.9	3043.9	2552.5	4554.5	4495.3	1287.6	668.8
85°	9.1	9.1	45.5	200.2	423.1	1342.2	2106.6	1901.9	1838.2	282.1	323.0
87.5°	0.0	0.0	9.1	59.1	127.4	391.3	814.4	523.2	582.4	77.3	159.2
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°	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8	8503.8
2.5°	8635.8	8540.2	8394.6	8253.6	8103.4	7921.4	7721.2	7648.4	7521.0	7511.9	7584.7
5°	8626.7	8472.0	8217.2	7916.9	7489.2	7166.1	6815.8	6561.0	6365.3	6237.9	6269.8
7.5°	8672.2	8485.6	8044.3	7398.2	6847.6	6206.1	5664.7	5291.6	4950.3	4782.0	4763.8
10°	8599.4	8349.1	7703.0	6797.6	5987.7	5091.4	4299.7	3799.2	3289.6	3103.0	3112.1
12.5°	8640.3	8290.0	7334.5	6178.8	5064.1	3899.3	2952.9	2270.4	1792.7	1638.0	1619.8
15°	8667.6	8162.6	6979.6	5437.2	4040.3	2657.2	1710.8	1287.6	1137.5	1110.2	1105.6
17.5°	8563.0	8007.9	6479.1	4704.6	2993.8	1615.2	1137.5	1051.0	1023.7	1005.5	996.4
20°	8558.4	7916.9	6046.8	3953.9	1997.4	1101.1	982.8	950.9	910.0	896.3	896.3
22.5°	8481.1	7725.8	5528.2	3130.3	1274.0	946.4	882.7	832.6	787.1	768.9	764.4
25°	8458.3	7502.8	5041.3	2352.3	969.1	846.3	782.6	709.8	655.2	627.9	614.2
27.5°	8394.6	7311.7	4549.9	1656.2	846.3	755.3	673.4	596.0	532.3	491.4	486.8
30°	8167.1	7111.5	4003.9	1146.6	768.9	668.8	577.8	486.8	423.1	395.8	386.7
32.5°	8071.6	6925.0	3407.9	882.7	700.7	591.5	486.8	404.9	354.9	327.6	323.0
35°	7957.8	6652.0	2830.1	768.9	637.0	514.1	409.5	341.2	300.3	277.5	277.5
37.5°	7971.5	6433.6	2288.6	696.1	568.7	441.3	350.3	291.2	254.8	232.0	232.0
40°	7930.5	6260.7	1779.0	632.4	505.0	377.6	295.7	245.7	213.8	191.1	186.5
42.5°	8117.1	6215.2	1342.2	577.8	441.3	323.0	254.8	209.3	177.4	150.1	150.1
45°	8431.0	6288.0	1046.5	527.8	377.6	277.5	218.4	172.9	141.0	122.8	118.3
47.5°	9268.2	6574.6	819.0	486.8	323.0	241.1	182.0	141.0	113.7	95.5	91.0
50°	10483.0	7216.2	696.1	427.7	273.0	204.7	150.1	109.2	91.0	72.8	68.2
52.5°	12212.0	8294.5	632.4	377.6	227.5	168.3	118.3	86.4	68.2	54.6	50.0
55°	14095.7	9641.3	573.3	318.5	191.1	136.5	95.5	68.2	50.0	36.4	31.8
57.5°	15565.3	10806.1	523.2	263.9	154.7	109.2	72.8	50.0	36.4	22.7	18.2
60°	17171.4	11625.1	459.5	209.3	127.4	81.9	54.6	36.4	27.3	13.6	13.6
62.5°	18827.6	12585.1	377.6	163.8	100.1	63.7	40.9	27.3	18.2	4.5	4.5
65°	21129.8	13335.8	291.2	127.4	77.3	45.5	31.8	22.7	9.1	0.0	0.0
67.5°	21780.5	12967.3	213.8	100.1	54.6	31.8	22.7	13.6	4.5	0.0	0.0
69°	21129.8	11679.7	186.5	86.4	45.5	27.3	18.2	9.1	4.5	0.0	0.0
70°	19942.3	10678.7	163.8	72.8	40.9	27.3	13.6	9.1	4.5	0.0	0.0
72.5°	16680.0	8189.9	127.4	54.6	31.8	22.7	13.6	9.1	0.0	0.0	0.0
75°	12234.7	5059.5	95.5	40.9	27.3	18.2	13.6	9.1	0.0	0.0	0.0
77.5°	6556.4	1847.3	68.2	27.3	18.2	13.6	13.6	9.1	0.0	0.0	0.0
80°	1797.2	546.0	50.0	18.2	13.6	9.1	9.1	4.5	0.0	0.0	0.0
82.5°	491.4	141.0	31.8	18.2	13.6	9.1	4.5	0.0	0.0	0.0	0.0
85°	263.9	54.6	18.2	13.6	9.1	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	136.5	18.2	13.6	9.1	9.1	4.5	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)