

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: P456187

Luminaire Tested: **GLAN-SA7B-830-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24658 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

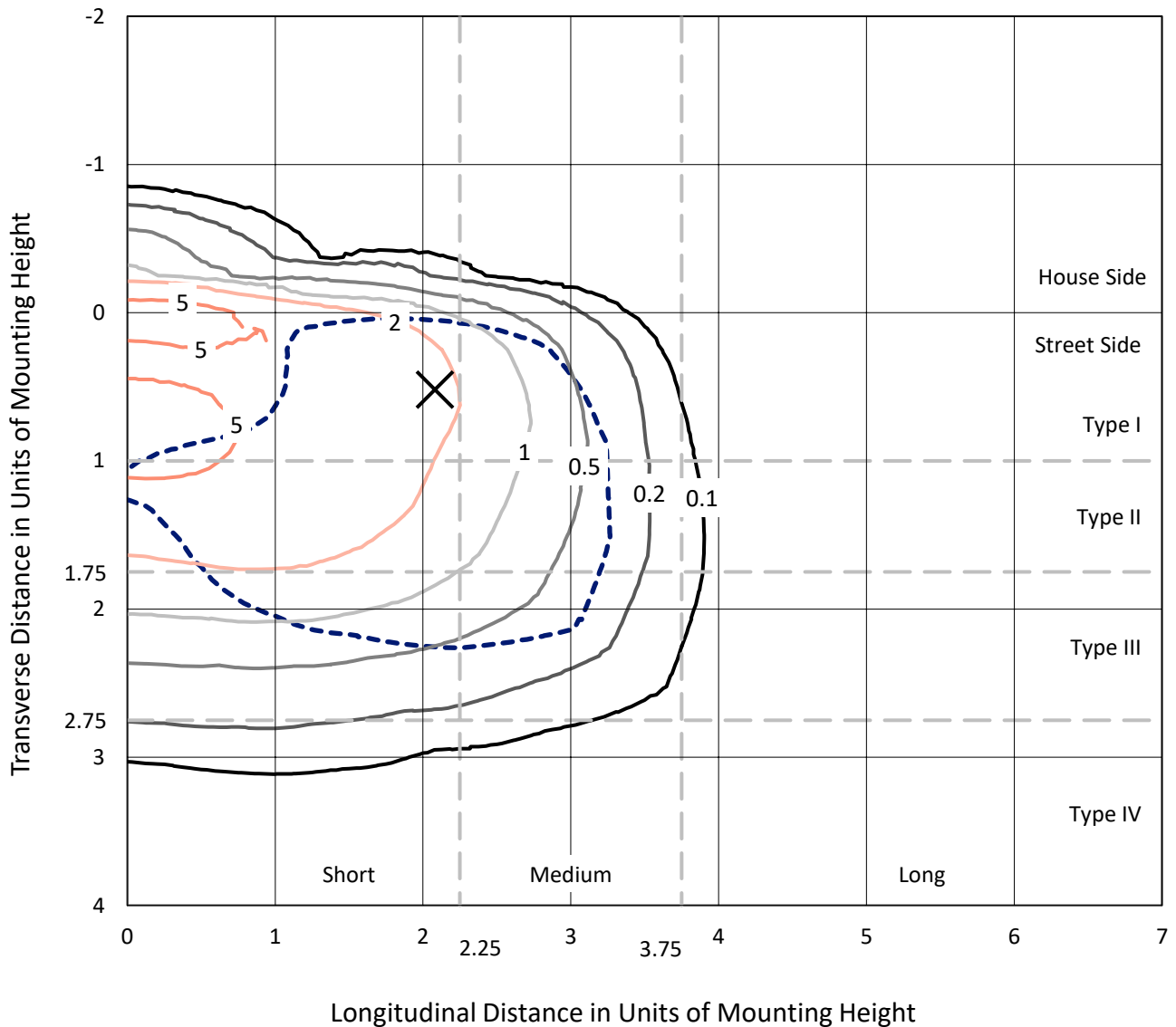
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

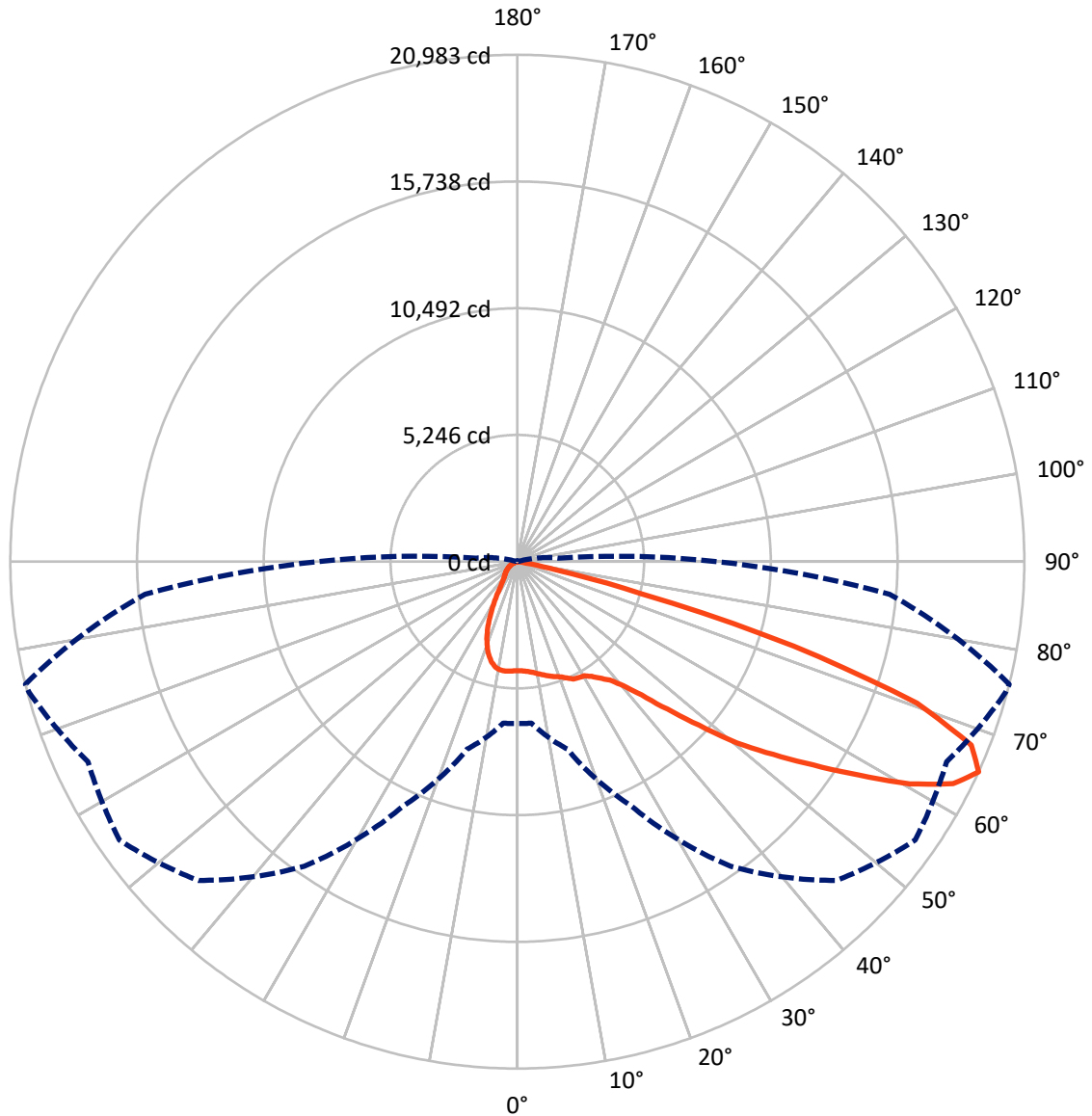
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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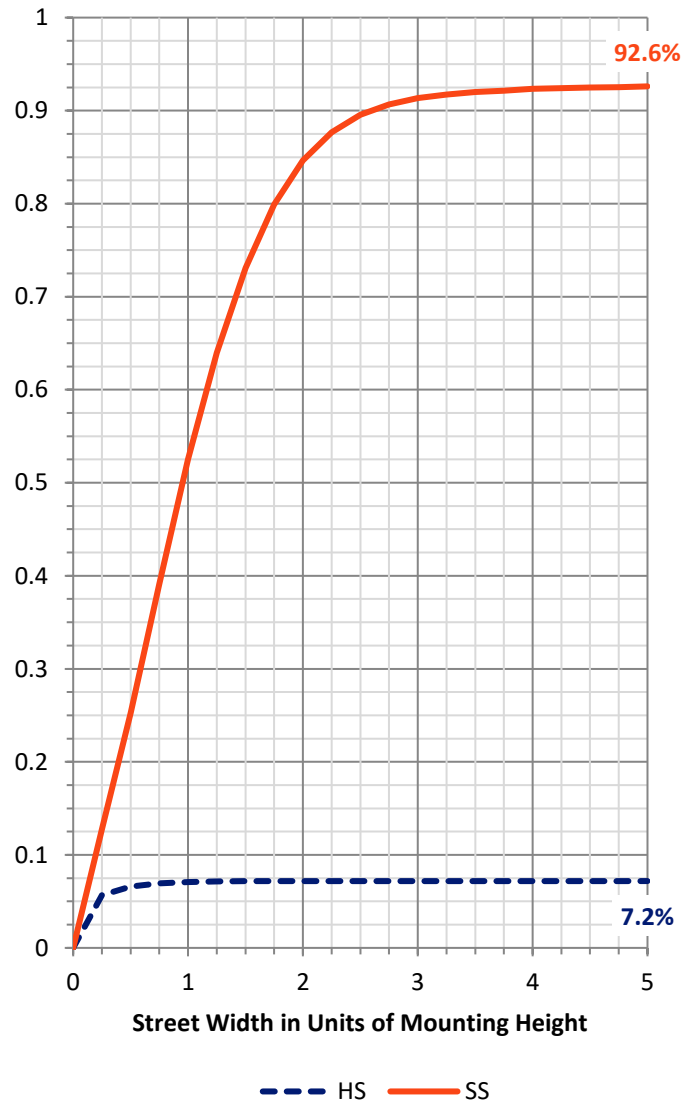
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1780.8	0.0	1780.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	22877.2	0.0	22877.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	24658.0	0.0	24658.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.6	1.5
10°-20°	827.3	3.4
20°-30°	1333.2	5.4
30°-40°	2318.1	9.4
40°-50°	3830.5	15.5
50°-60°	5917.4	24.0
60°-70°	7225.9	29.3
70°-80°	2742.4	11.1
80°-90°	91.5	0.4
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°	24658.0	100.0
0°-180°	24658.0	100.0



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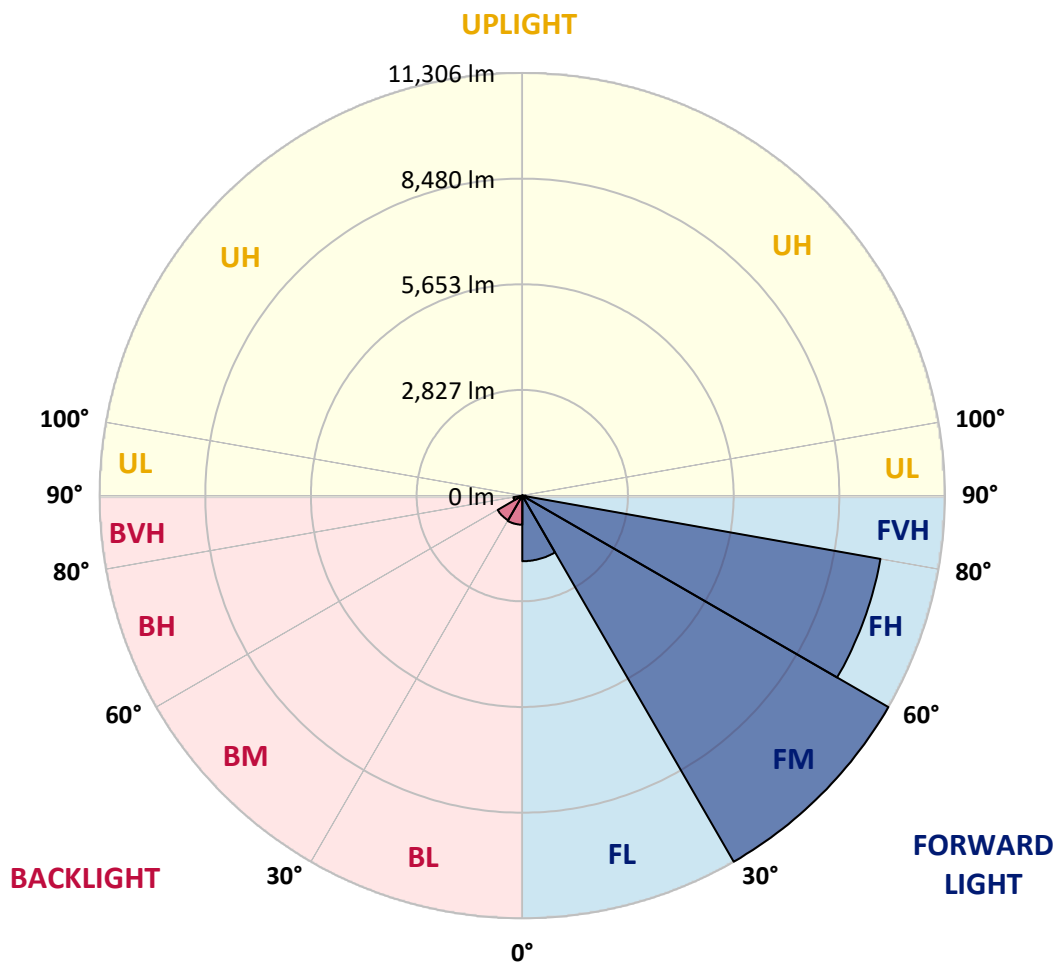
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1754.1	7.1			
FM (30°-60°)	11306.1	45.9			
FH (60°-80°)	9726.7	39.4			G4/12000
FVH (80°-90°)	90.3	0.4			G1/100
BL (0°-30°)	778.0	3.2	B2/1000		
BM (30°-60°)	759.9	3.1	B1/1000		
BH (60°-80°)	241.6	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7
2.5°	4310.5	4312.3	4322.7	4348.8	4388.9	4421.9	4449.8	4495.1	4526.4	4529.9	4540.3
5°	4012.8	3991.9	4012.8	4080.7	4141.7	4233.9	4347.1	4460.2	4561.2	4568.2	4616.9
7.5°	3678.6	3696.0	3729.1	3798.7	3913.6	4054.6	4218.3	4420.2	4611.7	4629.1	4724.9
10°	3339.1	3377.4	3431.4	3537.6	3697.7	3880.5	4103.4	4392.4	4691.8	4716.2	4881.6
12.5°	3025.7	3043.1	3109.3	3252.0	3450.5	3708.2	4016.3	4376.7	4780.6	4810.2	5048.7
15°	2785.5	2808.1	2865.6	2994.4	3215.5	3546.3	3944.9	4371.5	4867.6	4909.4	5215.8
17.5°	2740.2	2754.1	2778.5	2865.6	3058.8	3417.4	3880.5	4369.7	4951.2	5001.7	5370.8
20°	2926.5	2914.3	2889.9	2881.2	2987.4	3318.2	3833.5	4383.6	5031.3	5088.7	5534.4
22.5°	3393.1	3408.7	3266.0	3097.1	3062.3	3302.5	3826.6	4449.8	5158.4	5226.3	5717.2
25°	4383.6	4263.5	4040.7	3636.8	3332.1	3398.3	3904.9	4606.5	5306.3	5381.2	5882.6
27.5°	5478.7	5442.1	5095.7	4430.7	3863.1	3600.2	4044.2	4726.6	5355.1	5431.7	5976.6
30°	6554.6	6598.1	6201.2	5466.5	4634.3	3974.5	4174.7	4771.9	5398.6	5478.7	6096.7
32.5°	7552.1	7604.4	7256.2	6528.5	5543.1	4622.2	4399.3	4947.7	5581.4	5663.2	6296.9
35°	8337.3	8344.3	8081.4	7501.6	6535.4	5409.1	4885.0	5255.9	5828.6	5924.4	6509.3
37.5°	9058.0	9047.6	8739.4	8239.8	7362.4	6190.7	5496.1	5611.0	6110.6	6209.9	6815.7
40°	9592.5	9599.5	9500.2	9030.2	8133.6	6913.2	5980.1	5943.5	6584.2	6739.1	7261.4
42.5°	9949.4	10013.8	10062.5	9824.0	9103.3	7802.8	6723.5	6655.6	7405.9	7534.7	7891.6
45°	10238.4	10353.3	10597.0	10584.8	10034.7	8894.4	7743.6	7604.4	8570.6	8708.1	8694.2
47.5°	10449.0	10565.7	10969.6	11213.3	10910.4	9952.9	9026.7	8906.6	9961.6	10111.3	9580.3
50°	10557.0	10696.2	11211.6	11683.3	11594.6	10973.0	10489.1	10496.0	11641.6	11786.1	10607.5
52.5°	10304.5	10485.6	11340.4	12190.0	12362.3	11949.7	11859.2	12089.0	13137.0	13260.6	11535.4
55°	9498.5	9726.5	11164.5	12621.7	13251.9	13102.2	13415.6	13765.5	14771.7	14851.8	12487.7
57.5°	8988.4	9230.4	10645.8	12989.0	14320.8	14550.6	15046.8	15302.7	16458.7	16662.4	13581.0
60°	8558.4	8748.1	10219.2	13067.4	15407.2	16322.9	16805.1	17069.8	18540.8	18673.2	14783.9
62.5°	7842.9	8060.5	9498.5	12520.7	15953.8	17741.8	18741.1	18622.7	20151.2	20243.5	15522.1
65°	6692.1	6711.3	8036.1	11147.1	15389.8	18662.7	20100.7	19604.5	20920.7	20983.4	15464.6
67.5°	4994.7	5179.3	6182.0	8762.1	12999.5	17875.8	20541.2	19630.7	20435.0	20260.9	14237.3
70°	3217.2	3358.2	4190.4	6075.8	9373.1	14918.0	19080.5	18284.9	17935.0	17548.5	11653.7
72.5°	1485.0	1666.1	2489.5	3471.4	5558.8	10626.6	15489.0	14855.3	12909.0	11954.9	7407.6
75°	647.6	692.9	1229.1	1831.5	2606.2	5619.7	10212.3	9221.7	5830.4	5325.5	2964.8
77.5°	395.2	424.8	644.1	981.9	1023.7	2141.3	5501.3	4023.3	1801.9	1589.5	804.3
80°	268.1	301.2	468.3	513.6	349.9	597.1	2064.7	1074.2	363.9	348.2	172.4
82.5°	130.6	165.4	346.4	287.3	151.5	191.5	600.6	229.8	106.2	99.2	60.9
85°	19.2	33.1	195.0	188.0	67.9	45.3	106.2	57.5	36.6	34.8	27.9
87.5°	0.0	0.0	66.2	29.6	7.0	7.0	12.2	12.2	13.9	12.2	13.9
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°	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7	4510.7
2.5°	4545.6	4554.3	4521.2	4474.2	4423.7	4373.2	4301.8	4237.4	4199.1	4221.7	4166.0
5°	4627.4	4620.4	4533.4	4390.6	4200.9	3972.8	3746.5	3553.2	3490.6	3396.5	3386.1
7.5°	4740.5	4721.4	4536.8	4209.6	3781.3	3353.0	2935.2	2658.4	2500.0	2365.9	2369.4
10°	4899.0	4843.3	4496.8	3891.0	3185.9	2540.0	2007.3	1641.7	1483.3	1432.8	1392.7
12.5°	5062.6	4954.7	4385.4	3461.0	2480.8	1735.7	1220.4	997.5	900.1	868.7	865.2
15°	5208.8	5038.2	4190.4	2943.9	1803.6	1109.0	832.2	759.0	746.9	748.6	746.9
17.5°	5353.3	5104.4	3920.6	2395.5	1225.6	795.6	715.5	698.1	703.3	710.3	708.6
20°	5473.5	5118.3	3575.9	1828.0	867.0	698.1	672.0	668.5	673.7	679.0	679.0
22.5°	5604.0	5128.8	3166.7	1265.7	708.6	649.4	635.4	635.4	642.4	649.4	651.1
25°	5701.5	5071.3	2677.5	908.8	625.0	602.4	595.4	597.1	604.1	607.6	605.8
27.5°	5717.2	4909.4	2158.7	696.4	567.5	544.9	537.9	544.9	536.2	541.4	537.9
30°	5731.1	4704.0	1633.0	586.7	515.3	480.5	470.0	459.6	452.6	443.9	442.2
32.5°	5774.6	4462.0	1192.5	527.5	466.6	428.3	403.9	374.3	351.7	344.7	343.0
35°	5793.8	4171.3	875.7	480.5	423.0	381.3	337.7	296.0	262.9	250.7	259.4
37.5°	5866.9	3889.2	679.0	445.7	384.7	332.5	276.8	224.6	193.2	186.3	189.8
40°	6016.6	3582.8	569.3	416.1	351.7	287.3	219.4	168.9	148.0	141.0	139.3
42.5°	6256.9	3278.2	506.6	388.2	318.6	242.0	172.4	132.3	114.9	109.7	109.7
45°	6549.4	2985.7	463.1	358.6	283.8	195.0	135.8	106.2	95.8	92.3	92.3
47.5°	6934.1	2729.8	426.5	329.0	245.5	154.9	109.7	92.3	85.3	87.0	88.8
50°	7324.1	2540.0	386.5	296.0	201.9	127.1	94.0	81.8	80.1	81.8	81.8
52.5°	7618.3	2428.6	332.5	250.7	158.4	106.2	83.6	76.6	74.9	71.4	71.4
55°	8015.2	2404.2	264.6	203.7	125.3	88.8	74.9	69.6	64.4	60.9	59.2
57.5°	8525.3	2432.1	203.7	158.4	97.5	73.1	66.2	57.5	50.5	43.5	43.5
60°	8842.2	2369.4	158.4	121.9	71.4	59.2	50.5	41.8	33.1	27.9	26.1
62.5°	8741.2	2104.8	125.3	90.5	50.5	43.5	33.1	27.9	19.2	13.9	12.2
65°	8220.6	1699.1	101.0	62.7	36.6	26.1	17.4	17.4	8.7	1.7	0.0
67.5°	7195.2	1258.7	80.1	41.8	20.9	12.2	8.7	5.2	0.0	0.0	0.0
70°	5856.5	908.8	62.7	26.1	12.2	8.7	3.5	1.7	0.0	0.0	0.0
72.5°	3718.6	520.5	48.7	15.7	8.7	3.5	0.0	0.0	0.0	0.0	0.0
75°	1438.0	203.7	33.1	10.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	407.4	95.8	19.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	106.2	41.8	10.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.5	17.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.6	7.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	1.7	0.0	0.0	0.0	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)