

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: P321901

Luminaire Tested: **GAN-SA7D-730-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321901  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7D-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35556 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

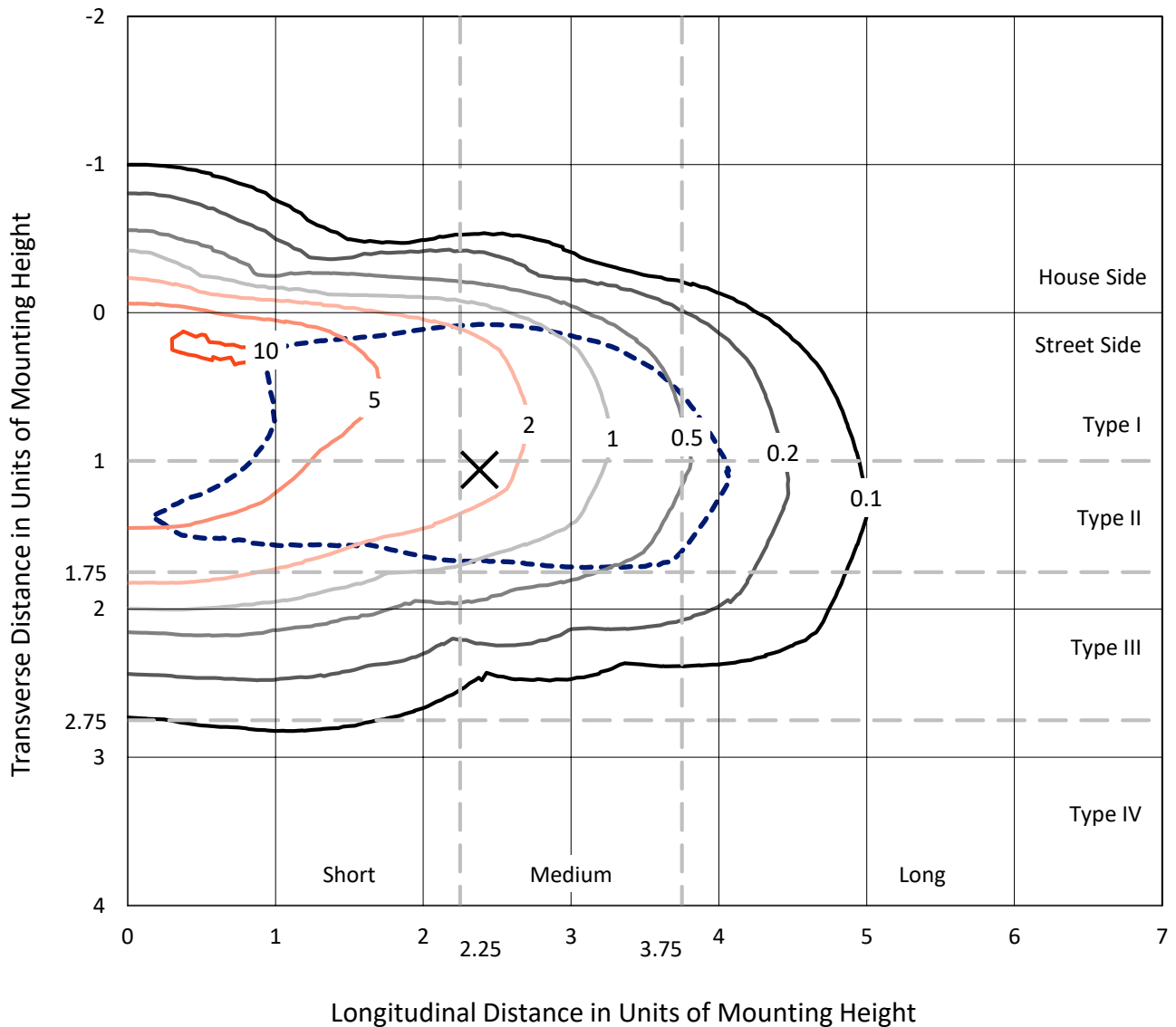
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

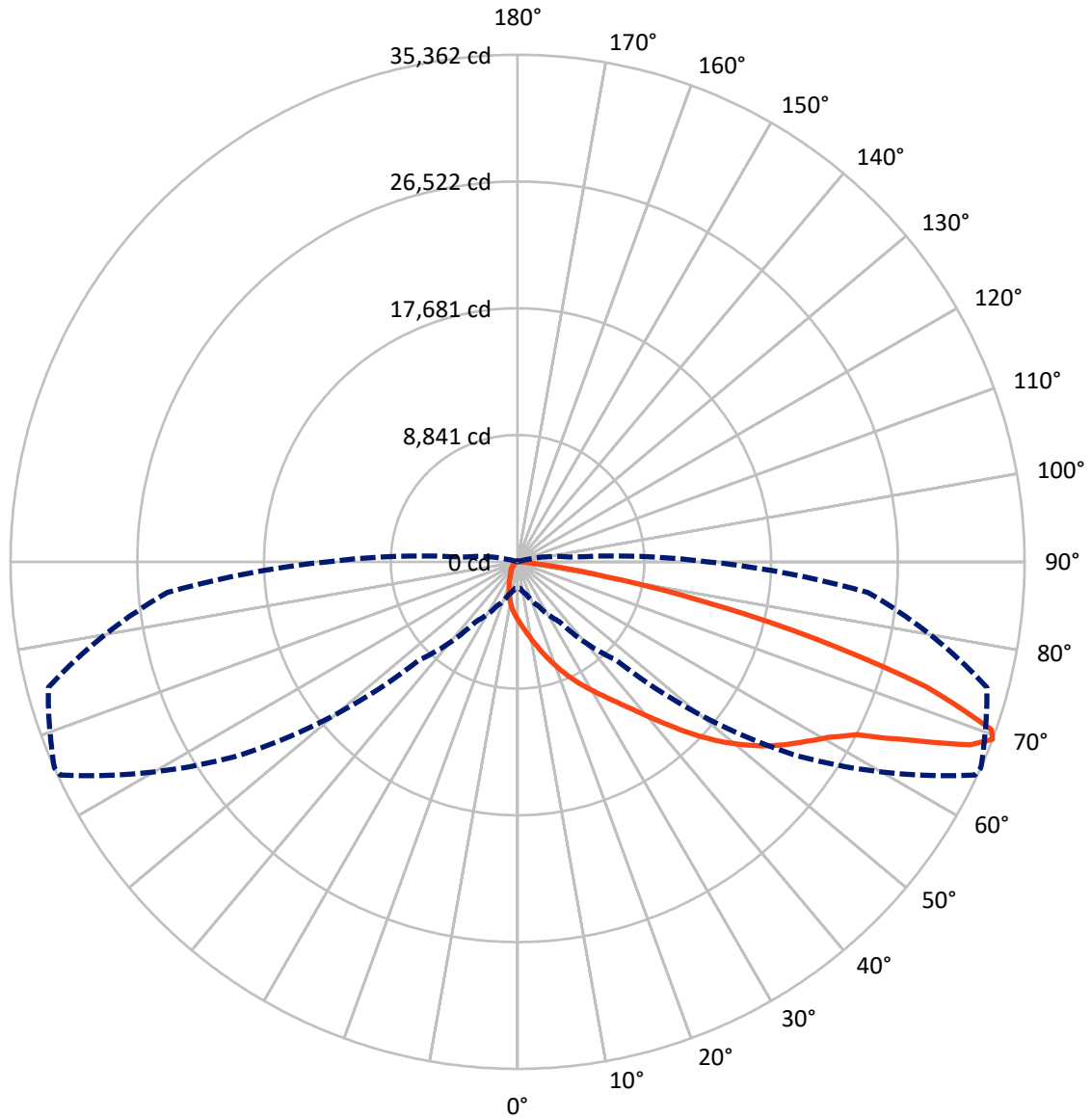
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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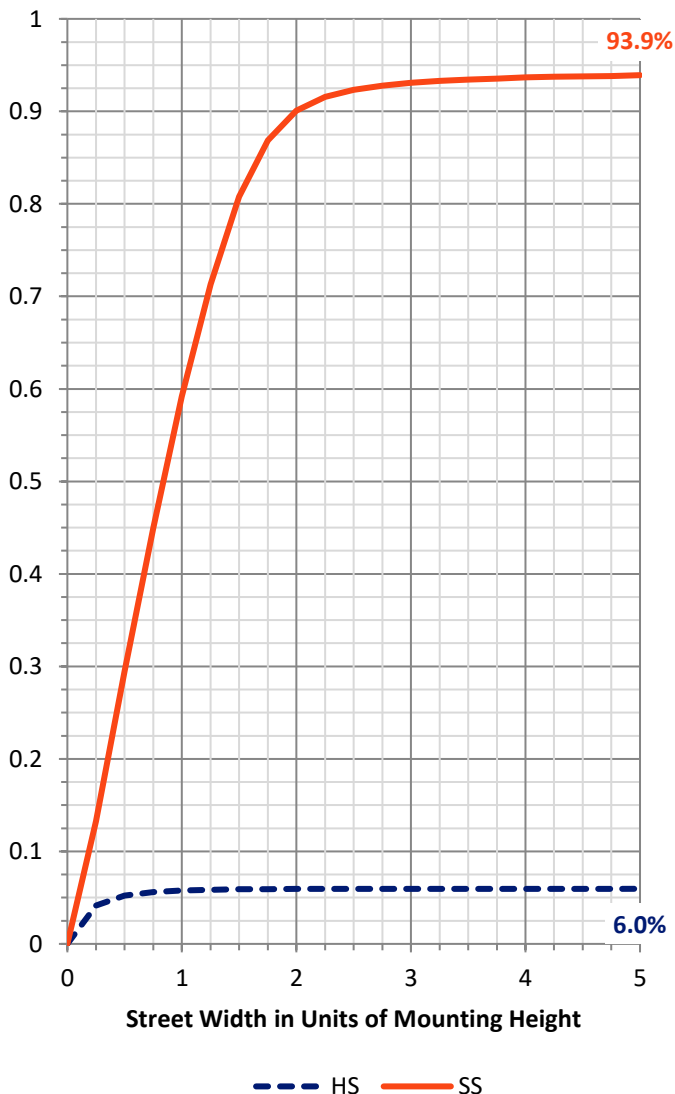
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2132.9	0.0	2132.9
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	33423.1	0.0	33423.1
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	35556.0	0.0	35556.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.1	1.1
10°-20°	1164.1	3.3
20°-30°	2027.1	5.7
30°-40°	3556.6	10.0
40°-50°	5953.2	16.7
50°-60°	8750.6	24.6
60°-70°	8984.6	25.3
70°-80°	4435.5	12.5
80°-90°	293.3	0.8
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°	35556.0	100.0
0°-180°	35556.0	100.0

**Coefficient of Utilization**

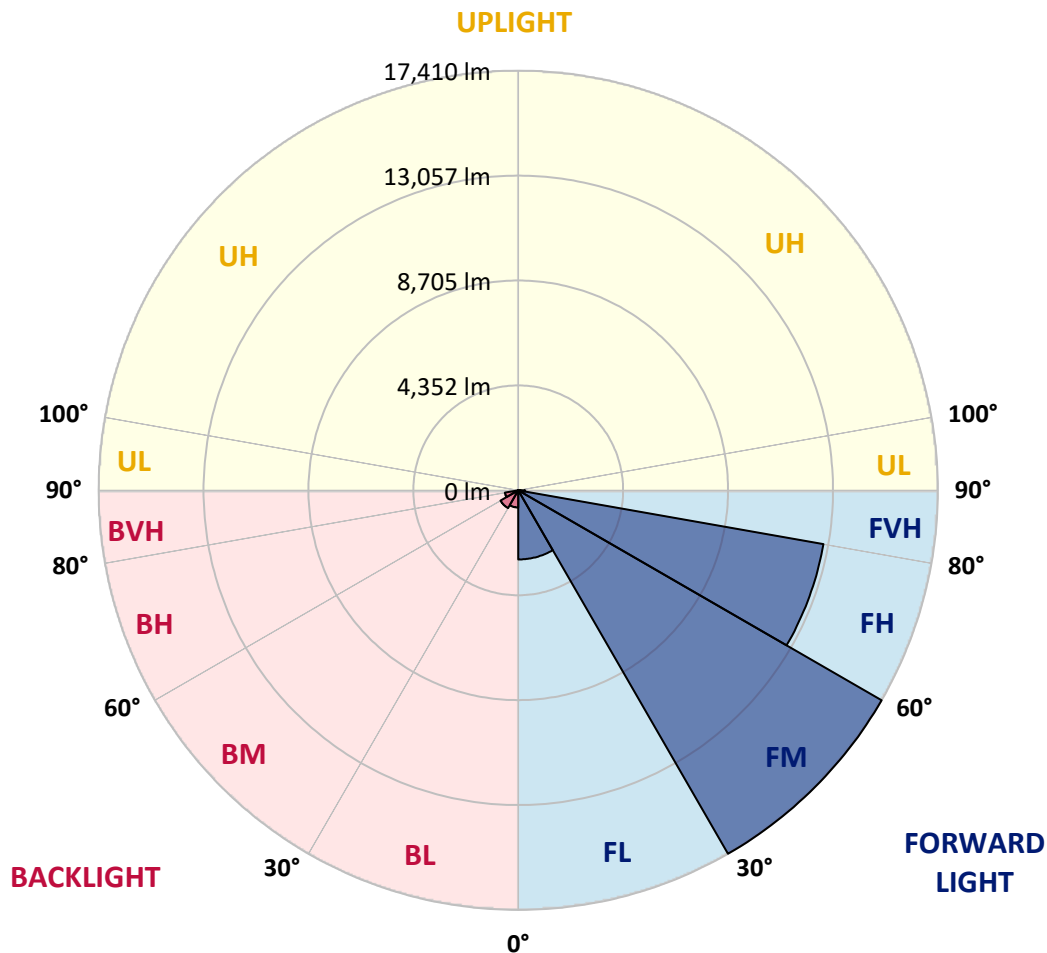


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2869.0	8.1			
FM (30°-60°)	17409.9	49.0			
FH (60°-80°)	12858.0	36.2			G5
FVH (80°-90°)	286.2	0.8			G3/500
BL (0°-30°)	713.3	2.0	B2/1000		
BM (30°-60°)	850.4	2.4	B1/1000		
BH (60°-80°)	562.1	1.6	B2/1000		G2/1000
BVH (80°-90°)	7.1	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4
2.5°	4762.4	4742.2	4733.7	4696.6	4632.4	4583.4	4488.9	4379.1	4358.8	4252.4	4122.4
5°	5380.5	5363.7	5351.8	5299.5	5233.6	5110.3	4938.1	4733.7	4694.9	4492.2	4232.2
7.5°	5811.2	5841.6	5841.6	5807.8	5725.1	5632.2	5421.1	5142.4	5093.4	4782.7	4379.1
10°	6062.8	6100.0	6128.7	6157.4	6145.6	6108.4	5909.1	5595.0	5535.9	5123.8	4549.7
12.5°	6086.5	6123.6	6204.7	6324.6	6441.1	6525.6	6400.6	6096.6	6029.0	5519.0	4752.3
15°	5954.7	5993.6	6118.6	6351.6	6633.6	6880.2	6920.7	6652.2	6583.0	5990.2	5005.6
17.5°	5725.1	5750.4	5929.4	6252.0	6694.4	7147.0	7391.9	7248.4	7184.2	6528.9	5287.7
20°	5554.5	5573.1	5730.1	6076.3	6657.3	7314.2	7837.8	7881.7	7814.1	7106.5	5593.3
22.5°	5846.7	5880.4	5885.5	6049.3	6556.0	7397.0	8229.6	8504.8	8454.2	7719.5	5893.9
25°	6645.5	6684.3	6556.0	6454.6	6642.1	7434.1	8565.6	9143.2	9102.7	8379.9	6196.2
27.5°	7701.0	7741.5	7576.0	7273.7	7093.0	7574.3	8864.6	9791.7	9790.0	9079.0	6522.2
30°	8737.9	8778.4	8609.5	8307.3	7891.8	7971.2	9122.9	10470.6	10480.8	9800.2	6868.4
32.5°	9825.5	9876.2	9702.2	9313.8	8879.8	8656.8	9486.0	11152.9	11210.3	10636.1	7258.5
35°	11061.7	11068.5	10823.6	10416.6	9916.7	9573.9	10068.7	11917.9	12054.7	11671.4	7753.3
37.5°	12274.3	12323.2	12122.3	11480.5	11021.2	10632.7	10935.0	12873.8	13068.0	12936.3	8400.1
40°	13172.7	13275.7	13247.0	12554.6	12118.9	11841.9	12010.8	14010.4	14256.9	14408.9	9215.8
42.5°	13736.8	13814.5	13946.2	13529.1	13133.9	13179.5	13280.8	15334.4	15638.4	16087.6	10153.1
45°	14383.6	14420.7	14530.5	14346.4	14079.6	14539.0	14628.5	16825.6	17144.8	17892.9	11193.4
47.5°	15174.0	15261.8	15292.2	15123.3	15001.7	15741.4	15927.2	18181.7	18629.3	19826.6	12294.5
50°	16180.5	16204.1	16256.5	16146.7	16025.1	16774.9	17092.4	19605.4	20012.4	21767.1	13380.4
52.5°	17165.1	17249.5	17431.9	17362.6	17313.7	17654.8	18131.1	20888.9	21343.2	23384.9	14464.7
55°	17448.8	17521.4	18151.3	18582.0	18980.5	18739.0	19124.1	22039.0	22530.4	24830.6	15508.3
57.5°	16315.6	16462.5	17553.5	18674.9	20328.2	20424.5	20488.6	23219.4	23660.2	25938.4	16594.2
60°	13451.4	13480.1	15270.2	17193.8	20105.3	21895.4	22481.4	24487.7	24857.6	26970.3	17894.6
62.5°	8555.5	8847.7	10811.8	13527.4	17747.7	21682.6	24891.4	26406.2	26541.3	28208.2	19759.1
65°	4075.1	4264.2	5679.5	8357.9	12855.2	18958.6	26554.8	29876.7	29937.5	30662.0	22250.1
67.5°	2256.2	2347.4	3021.3	4499.0	7515.2	13407.5	25882.7	33987.3	34044.7	33168.2	24435.4
69°	1764.8	1842.5	2372.8	3391.1	5095.1	9636.3	23422.1	35191.4	35362.0	33886.0	24513.1
70°	1498.0	1574.0	2043.5	2864.2	4097.1	7446.0	20848.4	34892.5	35073.2	33818.4	23933.8
72.5°	917.0	960.9	1361.2	2016.4	2746.0	3745.8	12856.9	29508.6	29814.2	31021.7	20569.7
75°	618.1	641.7	851.2	1391.6	1964.1	1928.6	6679.2	20799.4	21461.4	24131.4	15192.5
77.5°	442.5	464.4	570.8	900.1	1376.4	1273.4	3024.7	12926.1	13068.0	14473.1	8285.3
80°	251.6	271.9	403.6	535.4	933.9	849.5	1202.4	6174.3	6245.2	6206.4	2766.3
82.5°	131.7	148.6	221.2	353.0	599.5	555.6	499.9	2067.1	2077.2	1727.7	606.3
85°	25.3	30.4	109.8	241.5	309.1	241.5	204.3	484.7	494.8	437.4	150.3
87.5°	0.0	1.7	43.9	54.0	60.8	62.5	65.9	94.6	101.3	136.8	40.5
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°	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4
2.5°	4065.0	4004.2	3887.6	3752.5	3647.8	3544.8	3463.7	3379.3	3348.9	3333.7	3332.0
5°	4105.5	3977.1	3730.6	3477.3	3269.5	3073.6	2933.5	2800.0	2737.6	2708.9	2697.0
7.5°	4173.0	3967.0	3570.1	3183.4	2884.5	2639.6	2445.4	2300.2	2227.5	2197.1	2185.3
10°	4252.4	3953.5	3382.7	2872.7	2491.0	2237.7	2045.1	1901.6	1822.2	1788.4	1771.6
12.5°	4345.3	3929.9	3166.5	2558.5	2154.9	1901.6	1668.5	1491.2	1400.0	1361.2	1342.6
15°	4460.1	3906.2	2940.2	2263.0	1859.4	1550.3	1295.3	1175.4	1156.8	1150.1	1151.8
17.5°	4573.3	3869.1	2693.7	1970.8	1548.6	1210.9	1080.8	1074.1	1077.5	1077.5	1077.5
20°	4674.6	3784.6	2425.1	1720.9	1253.1	1021.7	994.7	982.9	974.4	967.7	959.2
22.5°	4754.0	3671.5	2166.7	1472.6	1023.4	935.6	893.4	856.2	825.8	805.6	795.4
25°	4808.0	3521.2	1930.3	1234.5	920.4	851.2	775.2	712.7	665.4	636.7	624.9
27.5°	4848.6	3359.0	1719.2	1033.6	849.5	753.2	653.6	579.3	530.3	505.0	494.8
30°	4877.3	3175.0	1533.4	908.6	770.1	650.2	543.8	471.2	435.7	422.2	415.4
32.5°	4904.3	2970.6	1357.8	849.5	695.8	555.6	456.0	400.2	378.3	361.4	356.3
35°	4971.9	2781.5	1190.6	787.0	619.8	474.6	391.8	351.3	329.3	319.2	315.8
37.5°	5132.3	2641.3	1030.2	722.8	543.8	410.4	342.8	314.1	293.9	283.7	280.3
40°	5390.7	2570.4	895.1	653.6	469.5	361.4	310.7	283.7	261.8	246.6	243.2
42.5°	5770.7	2580.5	800.5	584.3	410.4	322.6	280.3	248.3	224.6	211.1	207.7
45°	6231.7	2654.8	734.6	516.8	361.4	292.2	246.6	212.8	190.8	179.0	175.6
47.5°	6731.6	2774.7	680.6	456.0	322.6	263.5	212.8	177.3	158.7	148.6	146.9
50°	7258.5	2891.2	624.9	396.9	288.8	234.7	179.0	146.9	131.7	123.3	119.9
52.5°	7792.2	3026.3	574.2	342.8	260.1	201.0	148.6	119.9	108.1	101.3	98.0
55°	8366.4	3127.7	525.2	300.6	231.4	170.6	123.3	99.6	89.5	81.1	79.4
57.5°	9041.9	3284.7	474.6	260.1	197.6	141.9	101.3	79.4	70.9	62.5	60.8
60°	9953.8	3468.8	420.5	229.7	162.1	116.5	82.8	64.2	54.0	47.3	45.6
62.5°	11156.3	3673.2	353.0	201.0	131.7	94.6	65.9	50.7	38.8	30.4	30.4
65°	12681.3	4005.9	288.8	168.9	108.1	77.7	50.7	37.2	22.0	13.5	13.5
67.5°	13571.3	4063.3	233.1	138.5	87.8	65.9	42.2	25.3	6.8	1.7	0.0
69°	13285.9	3730.6	197.6	118.2	76.0	62.5	38.8	18.6	3.4	0.0	0.0
70°	12748.8	3411.4	173.9	104.7	69.2	59.1	37.2	13.5	3.4	0.0	0.0
72.5°	10534.8	2428.5	131.7	77.7	50.7	52.4	33.8	8.4	3.4	0.0	0.0
75°	7673.9	1476.0	94.6	54.0	32.1	38.8	23.6	3.4	1.7	0.0	0.0
77.5°	4269.3	695.8	59.1	30.4	20.3	23.6	11.8	0.0	0.0	0.0	0.0
80°	1386.5	189.1	27.0	16.9	11.8	13.5	5.1	0.0	0.0	0.0	0.0
82.5°	256.7	54.0	15.2	8.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0
85°	55.7	22.0	8.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	6.8	1.7	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)