

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: McGRAW-EDISON

Report Number: P942636

Luminaire Tested: **GALN-SB6D-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44889 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 440.1
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

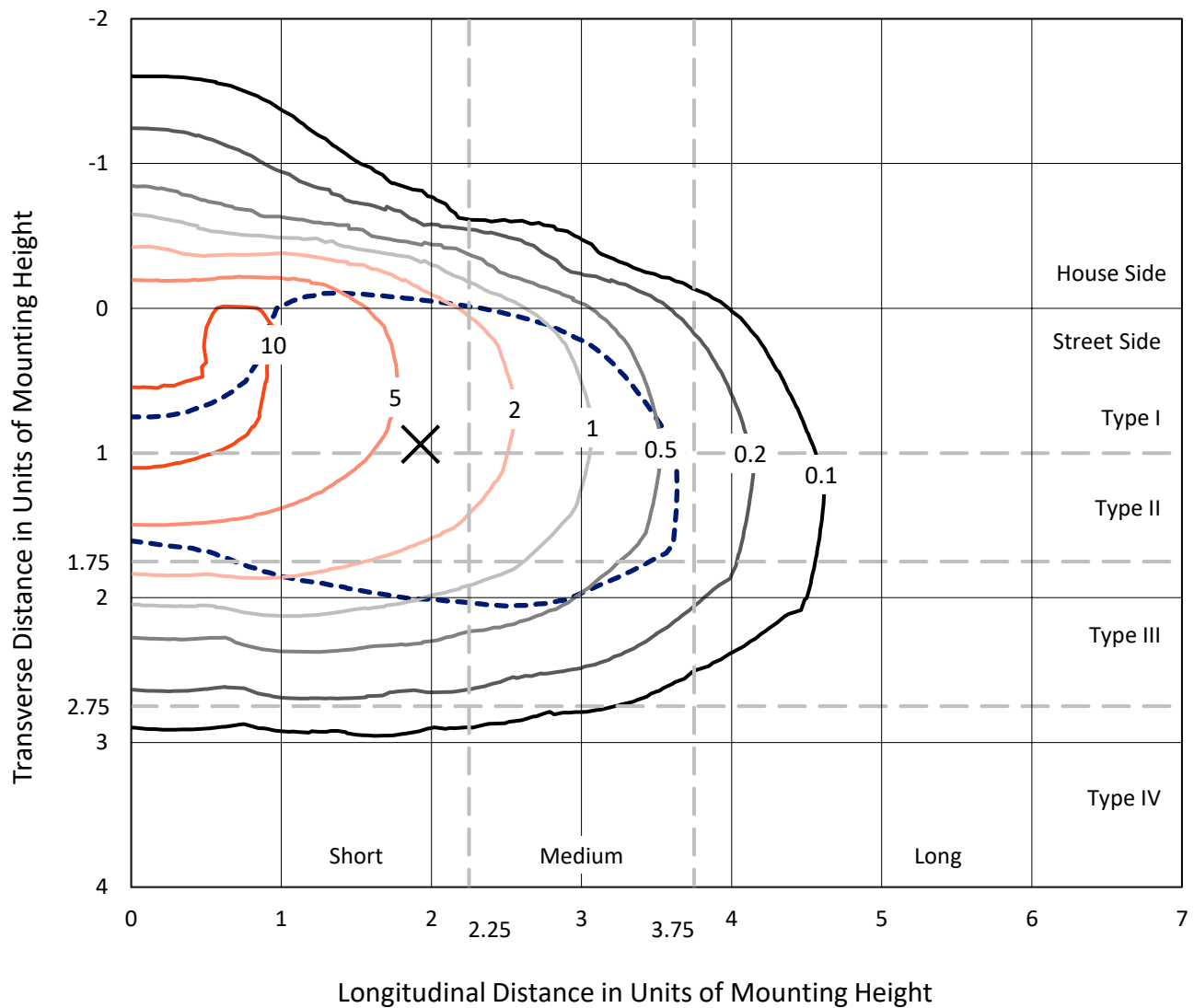


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

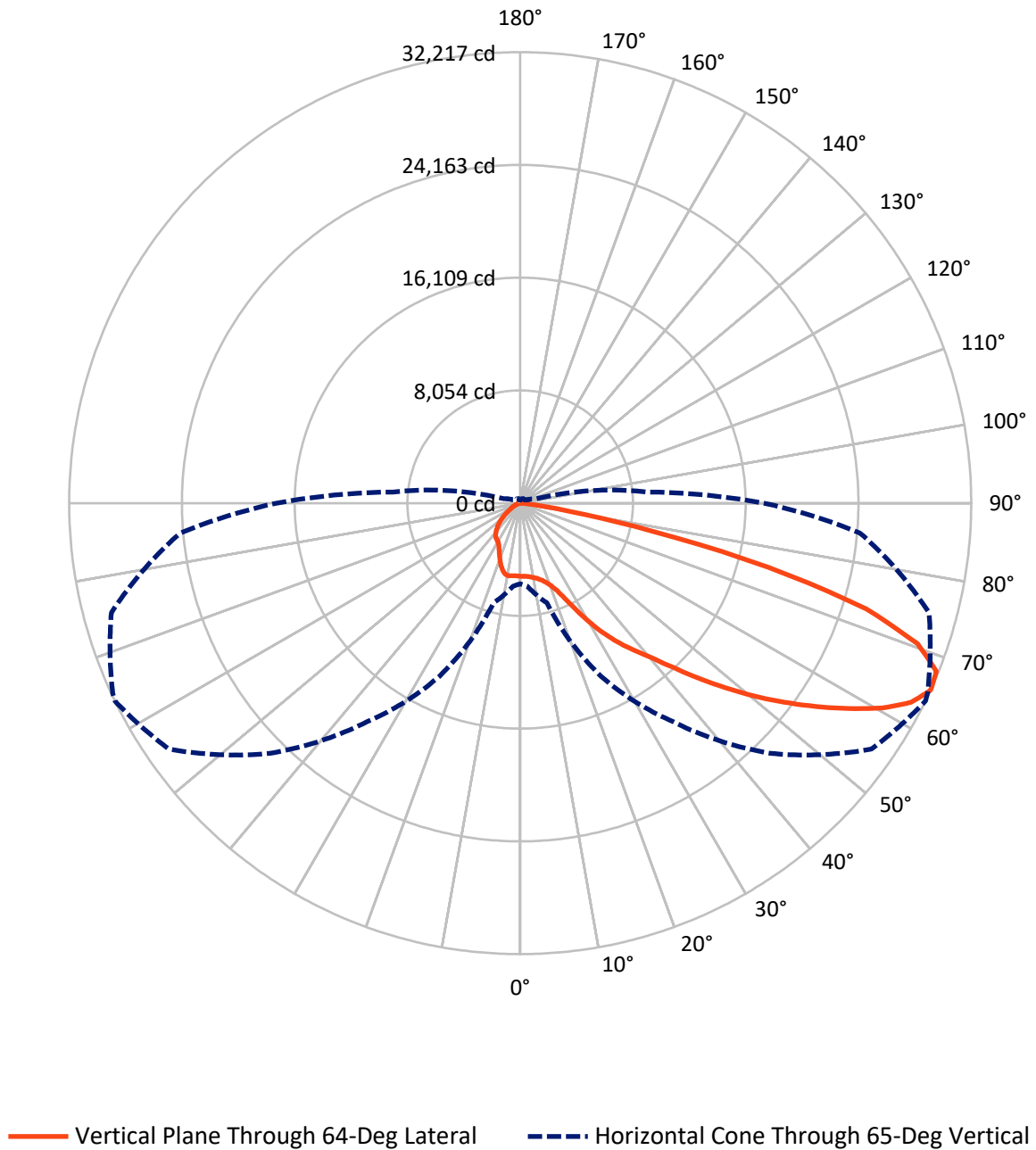


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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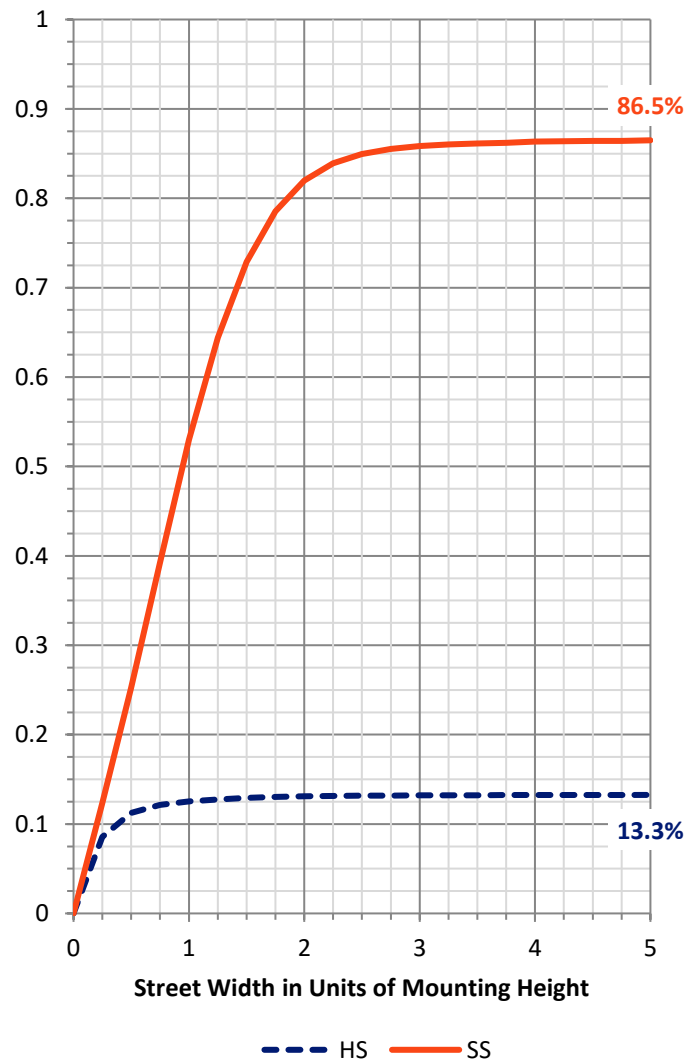
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6003.0	0.0	6003.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38886.0	0.0	38886.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	44889.0	0.0	44889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.7	1.1
10°-20°	1306.5	2.9
20°-30°	2475.7	5.5
30°-40°	5009.6	11.2
40°-50°	8534.0	19.0
50°-60°	11605.5	25.9
60°-70°	10898.2	24.3
70°-80°	4366.3	9.7
80°-90°	211.5	0.5
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°	44889.0	100.0
0°-180°	44889.0	100.0

Coefficient of Utilization



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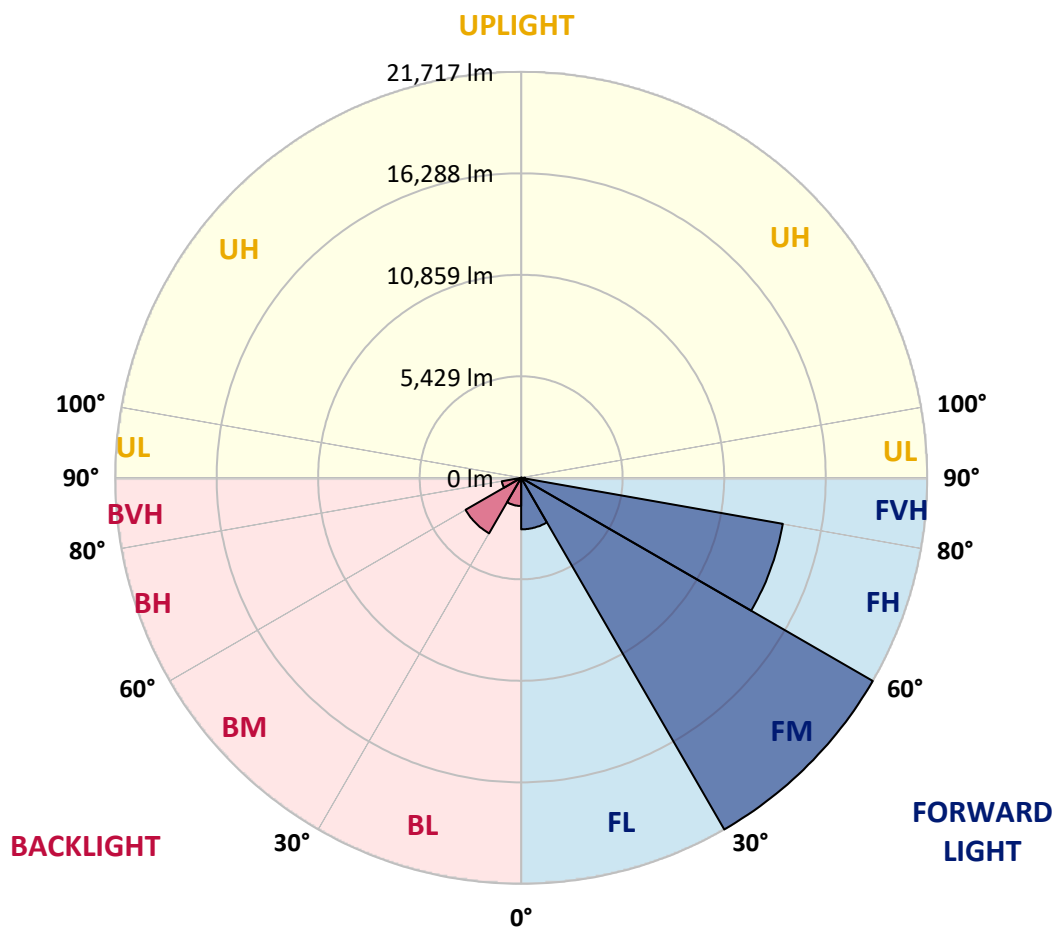
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2756.7	6.1			
FM	(30°-60°)	21717.2	48.4			
FH	(60°-80°)	14210.8	31.7			G5
FVH	(80°-90°)	201.2	0.4			G2/225
BL	(0°-30°)	1507.2	3.4	B3/2500		
BM	(30°-60°)	3431.9	7.6	B3/5000		
BH	(60°-80°)	1053.6	2.3	B3/2500		G3/2500
BVH	(80°-90°)	10.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1
2.5°	5203.0	5239.1	5230.1	5221.1	5218.0	5224.1	5227.1	5224.1	5224.1	5224.1	5227.1
5°	5103.7	5133.8	5133.8	5154.9	5184.9	5221.1	5248.1	5254.2	5260.2	5269.2	5266.2
7.5°	4914.1	4938.2	4956.2	5025.5	5100.7	5197.0	5278.2	5320.4	5326.4	5359.5	5371.5
10°	4784.7	4814.8	4844.9	4917.1	5025.5	5169.9	5308.3	5410.6	5425.7	5503.9	5540.0
12.5°	4778.7	4808.8	4847.9	4926.1	5052.5	5206.0	5374.5	5522.0	5549.1	5663.4	5738.6
15°	4841.9	4878.0	4914.1	5010.4	5145.8	5332.4	5513.0	5696.5	5723.6	5886.1	5967.4
17.5°	4971.3	5019.4	5046.5	5142.8	5287.3	5494.9	5732.6	5943.3	5967.4	6156.9	6259.2
20°	5227.1	5284.3	5293.3	5371.5	5513.0	5735.6	6018.5	6280.3	6310.4	6527.1	6641.4
22.5°	5756.7	5838.0	5765.7	5804.9	5931.2	6153.9	6460.9	6791.9	6834.0	7080.8	7183.1
25°	6689.6	6803.9	6617.4	6551.1	6605.3	6837.0	7222.2	7640.5	7688.6	7887.3	7938.4
27.5°	8522.2	8374.8	8091.9	7815.0	7652.5	7784.9	8218.3	8735.9	8796.1	8988.6	8928.5
30°	10535.4	10406.0	10023.8	9409.9	9024.8	9003.7	9403.9	9981.7	10050.9	10234.5	10050.9
32.5°	12551.6	12428.2	12012.9	11257.6	10589.6	10258.5	10535.4	11176.4	11212.5	11329.8	11059.0
35°	14534.7	14408.3	13993.0	13219.7	12398.1	11645.8	11591.6	12313.9	12325.9	12449.3	12046.0
37.5°	16529.8	16424.5	15982.2	15223.8	14414.3	13376.1	12873.6	13391.2	13406.2	13526.6	13108.3
40°	17953.2	17998.4	17694.4	17107.6	16412.5	15278.0	14312.0	14537.7	14447.4	14649.1	14399.3
42.5°	19175.0	19265.2	19000.4	18705.5	18302.3	17303.2	16093.5	16054.4	15909.9	16018.3	15759.5
45°	20231.2	20306.5	20068.7	19999.5	19990.5	19289.3	18040.5	17805.8	17604.1	17583.1	17273.1
47.5°	20619.4	20763.9	20866.2	21097.9	21549.3	21254.4	20053.7	19689.6	19463.9	19298.4	18807.8
50°	20766.9	20920.3	21269.4	21943.5	23011.8	23138.2	22057.8	21648.6	21371.7	21070.8	20348.6
52.5°	20568.3	20842.1	21311.5	22446.0	23995.8	24648.8	23980.8	23622.6	23306.7	22816.2	21744.9
55°	19397.7	19671.5	20631.4	22440.0	24486.3	25708.1	25798.3	25638.8	25283.8	24510.4	22873.3
57.5°	16930.1	17336.3	18856.0	21675.7	24477.3	26619.9	27579.8	27694.2	27296.9	26189.5	23761.1
60°	13511.6	14062.2	15915.9	19981.5	23722.0	27113.4	29141.6	29713.4	29292.1	27844.6	24480.3
62.5°	9428.0	10066.0	11820.4	17327.3	21994.6	26758.3	30282.1	31338.4	31019.4	29325.2	24757.1
65°	5750.7	5955.3	7369.7	13634.9	19057.6	25271.7	30634.2	32217.1	32111.8	30231.0	24347.9
67.5°	3830.8	4002.3	4408.6	9349.8	14793.5	22301.6	29791.6	32063.6	32093.7	30083.5	22849.3
70°	2308.1	2455.6	2720.4	5437.7	9587.5	17652.3	27182.6	30107.6	30282.1	28112.5	20008.5
72.5°	950.9	1050.2	1291.0	2464.6	4965.3	11203.5	21645.6	25849.5	26255.7	23637.7	15356.2
75°	538.7	589.8	758.3	1236.8	2154.6	5221.1	13111.3	18350.4	18949.3	16292.1	9238.4
77.5°	358.1	382.2	490.5	800.5	1212.7	1781.5	5603.2	9560.4	10703.9	8898.4	3999.3
80°	240.7	261.8	337.0	535.6	788.4	764.4	1784.5	3541.9	4357.4	3057.4	975.0
82.5°	162.5	165.5	240.7	352.1	499.5	370.1	526.6	1101.4	1384.3	884.7	370.1
85°	93.3	90.3	177.5	204.6	222.7	153.5	159.5	331.0	433.3	373.1	210.6
87.5°	12.0	18.1	69.2	54.2	30.1	33.1	33.1	57.2	84.3	90.3	45.1
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°	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1	5221.1
2.5°	5227.1	5224.1	5215.0	5206.0	5184.9	5172.9	5178.9	5172.9	5169.9	5172.9	5184.9
5°	5266.2	5257.2	5233.1	5203.0	5160.9	5109.7	5076.6	5028.5	4983.3	4956.2	4962.3
7.5°	5371.5	5362.5	5329.4	5245.1	5109.7	4896.1	4700.5	4528.9	4399.5	4324.3	4327.3
10°	5540.0	5525.0	5473.8	5287.3	4932.2	4465.7	4077.5	3755.5	3544.9	3445.6	3436.6
12.5°	5738.6	5720.6	5630.3	5248.1	4595.1	3866.9	3331.2	2973.1	2777.5	2690.3	2681.2
15°	5973.4	5949.3	5771.8	5061.6	4104.6	3204.9	2714.3	2446.5	2320.1	2241.9	2244.9
17.5°	6265.3	6223.1	5877.1	4781.7	3572.0	2699.3	2335.2	2133.6	2022.2	1947.0	1941.0
20°	6644.4	6575.2	5961.3	4447.7	3081.5	2380.3	2079.4	1910.9	1826.6	1760.4	1748.4
22.5°	7174.1	7074.8	6063.6	4086.6	2735.4	2160.6	1889.8	1766.4	1697.2	1622.0	1610.0
25°	7830.1	7712.7	6190.0	3752.5	2497.7	1971.1	1751.4	1649.1	1567.8	1480.6	1471.5
27.5°	8747.9	8537.3	6340.5	3478.7	2293.1	1808.6	1625.0	1510.6	1417.4	1345.1	1330.1
30°	9771.0	9425.0	6472.9	3313.2	2106.5	1658.1	1459.5	1345.1	1257.9	1206.7	1197.7
32.5°	10740.0	10270.6	6560.2	3241.0	1938.0	1486.6	1278.9	1155.6	1089.4	1074.3	1083.3
35°	11654.8	11034.9	6551.1	3171.8	1787.5	1315.0	1101.4	975.0	923.8	932.9	932.9
37.5°	12708.1	11850.4	6488.0	3063.4	1664.1	1158.6	947.9	836.6	791.4	794.4	806.5
40°	13932.8	12792.3	6448.8	2858.8	1528.7	1014.1	821.5	731.2	698.1	686.1	683.1
42.5°	15238.9	13704.1	6454.9	2627.1	1360.2	884.7	734.3	659.0	628.9	619.9	616.9
45°	16550.9	14573.8	6463.9	2386.3	1182.6	785.4	671.1	607.9	589.8	577.8	577.8
47.5°	17784.7	15314.1	6295.4	2127.5	1008.1	710.2	619.9	577.8	562.7	547.7	547.7
50°	18934.2	15807.6	5889.1	1826.6	869.7	650.0	580.8	550.7	535.6	520.6	520.6
52.5°	19828.0	15885.9	5218.0	1516.7	773.4	604.9	556.7	529.6	511.6	496.5	493.5
55°	20225.2	15395.3	4264.1	1227.8	698.1	565.7	532.6	505.6	484.5	469.4	466.4
57.5°	20122.9	14363.2	3325.2	987.0	625.9	526.6	502.5	484.5	460.4	436.3	433.3
60°	19620.3	12981.9	2506.7	821.5	559.7	484.5	469.4	454.4	421.3	385.2	379.2
62.5°	18750.7	11245.6	1787.5	680.1	487.5	436.3	430.3	418.3	370.1	303.9	297.9
65°	17420.6	9136.1	1203.7	565.7	418.3	382.2	385.2	364.1	300.9	225.7	219.7
67.5°	15476.6	6680.5	770.4	463.4	349.1	319.0	322.0	310.0	255.8	192.6	183.6
70°	13000.0	4423.6	502.5	352.1	279.9	246.8	264.8	267.8	216.7	156.5	150.5
72.5°	9530.3	2612.0	352.1	261.8	204.6	171.5	216.7	222.7	174.5	117.4	111.3
75°	5431.7	1239.8	264.8	189.6	126.4	120.4	168.5	168.5	120.4	78.2	72.2
77.5°	2281.0	517.6	186.6	123.4	72.2	69.2	114.4	105.3	60.2	36.1	36.1
80°	659.0	231.7	99.3	60.2	30.1	27.1	45.1	33.1	15.0	6.0	6.0
82.5°	258.8	102.3	39.1	24.1	12.0	12.0	6.0	0.0	0.0	0.0	0.0
85°	153.5	42.1	18.1	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	39.1	9.0	6.0	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)