

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: P943666

Luminaire Tested: **GALN-SB8B-730-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943666
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-SB8B-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 450mA 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: 35711 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 292.8
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

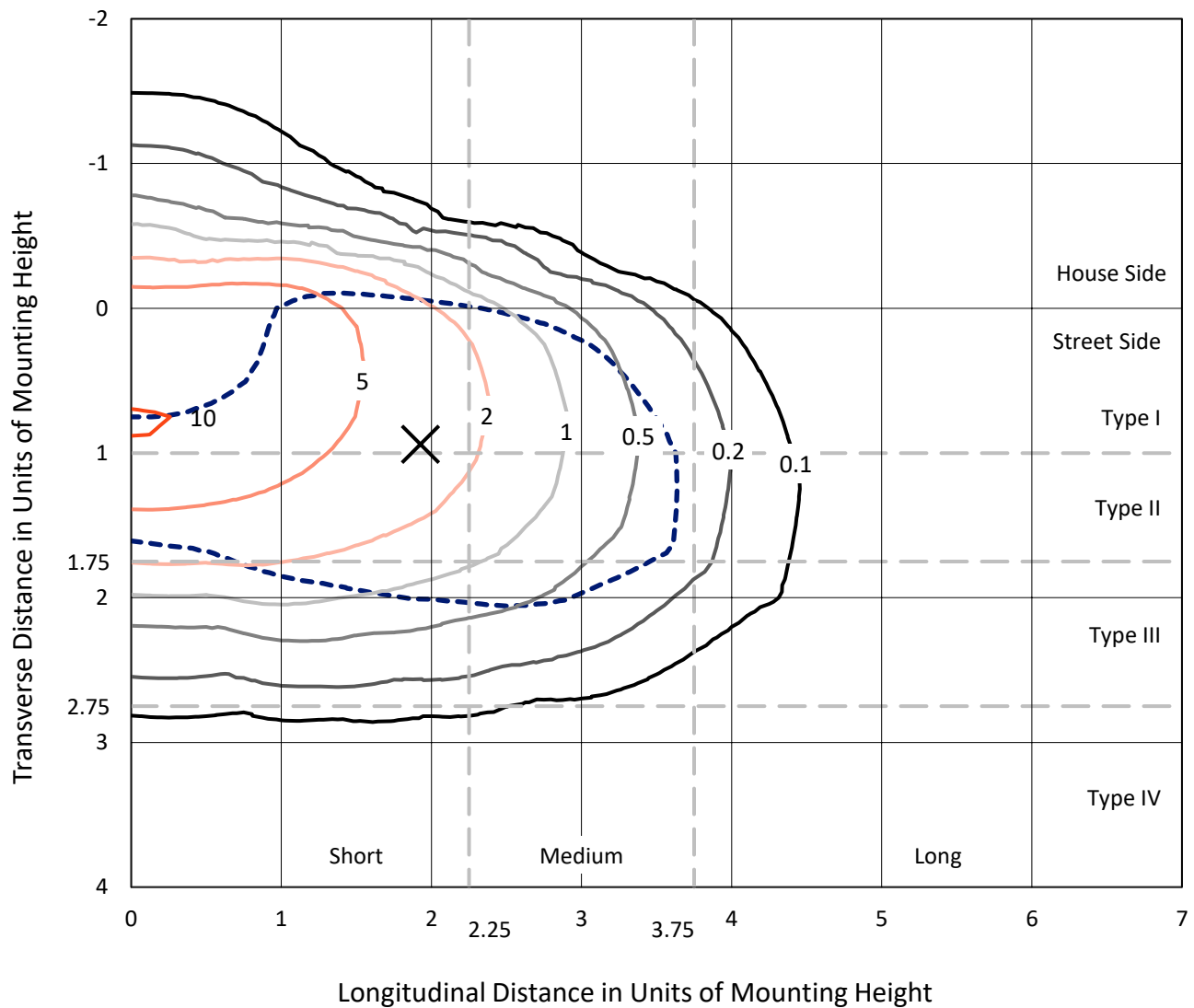


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

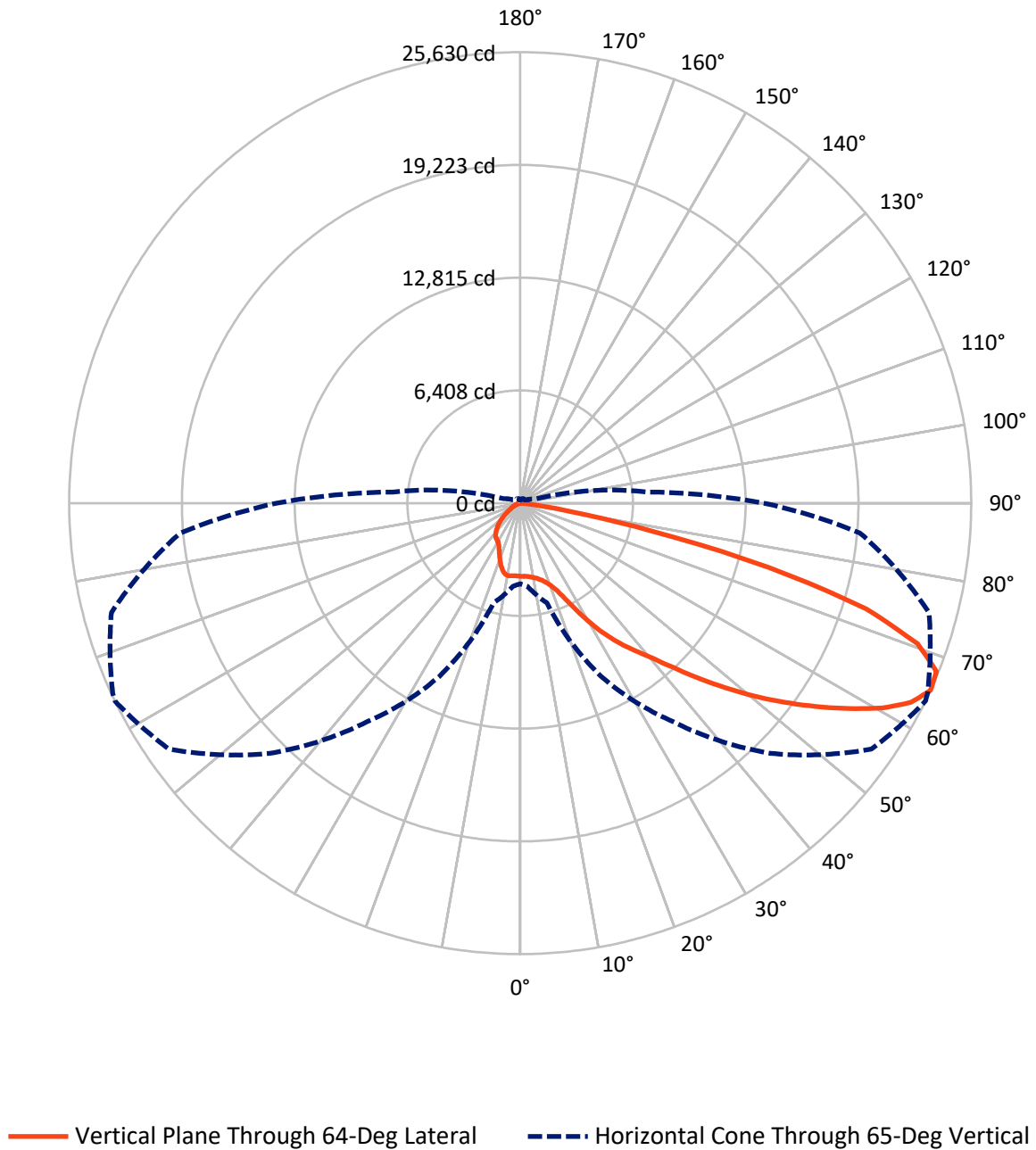


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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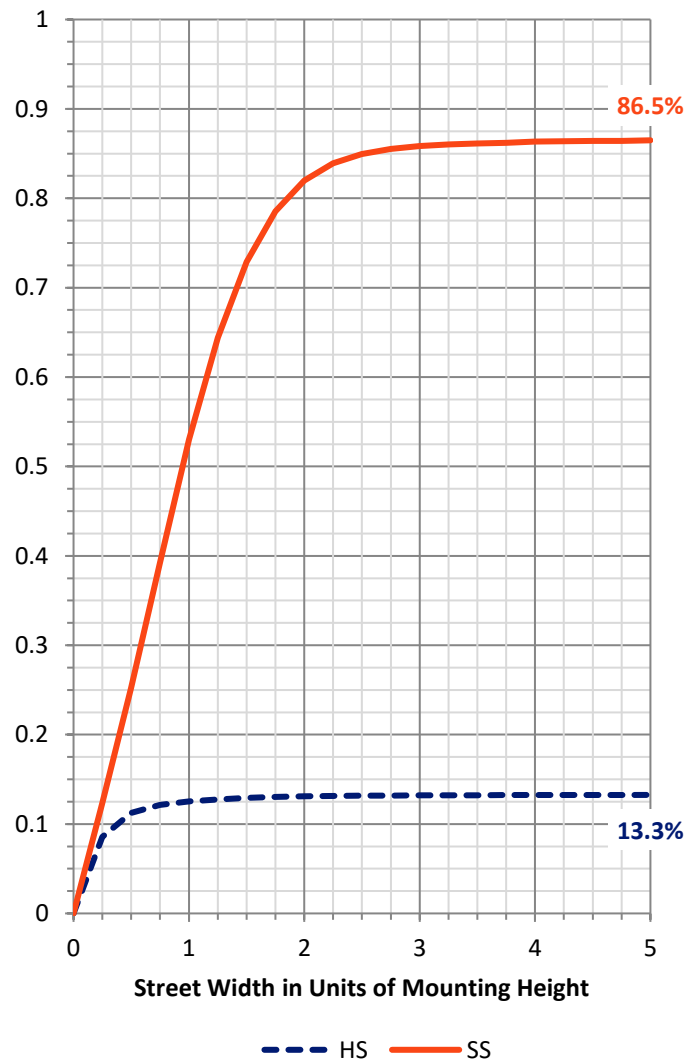
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4775.7	0.0	4775.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	30935.4	0.0	30935.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	35711.0	0.0	35711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.2	1.1
10°-20°	1039.4	2.9
20°-30°	1969.5	5.5
30°-40°	3985.4	11.2
40°-50°	6789.1	19.0
50°-60°	9232.7	25.9
60°-70°	8669.9	24.3
70°-80°	3473.6	9.7
80°-90°	168.3	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°	35711.0	100.0
0°-180°	35711.0	100.0

Coefficient of Utilization



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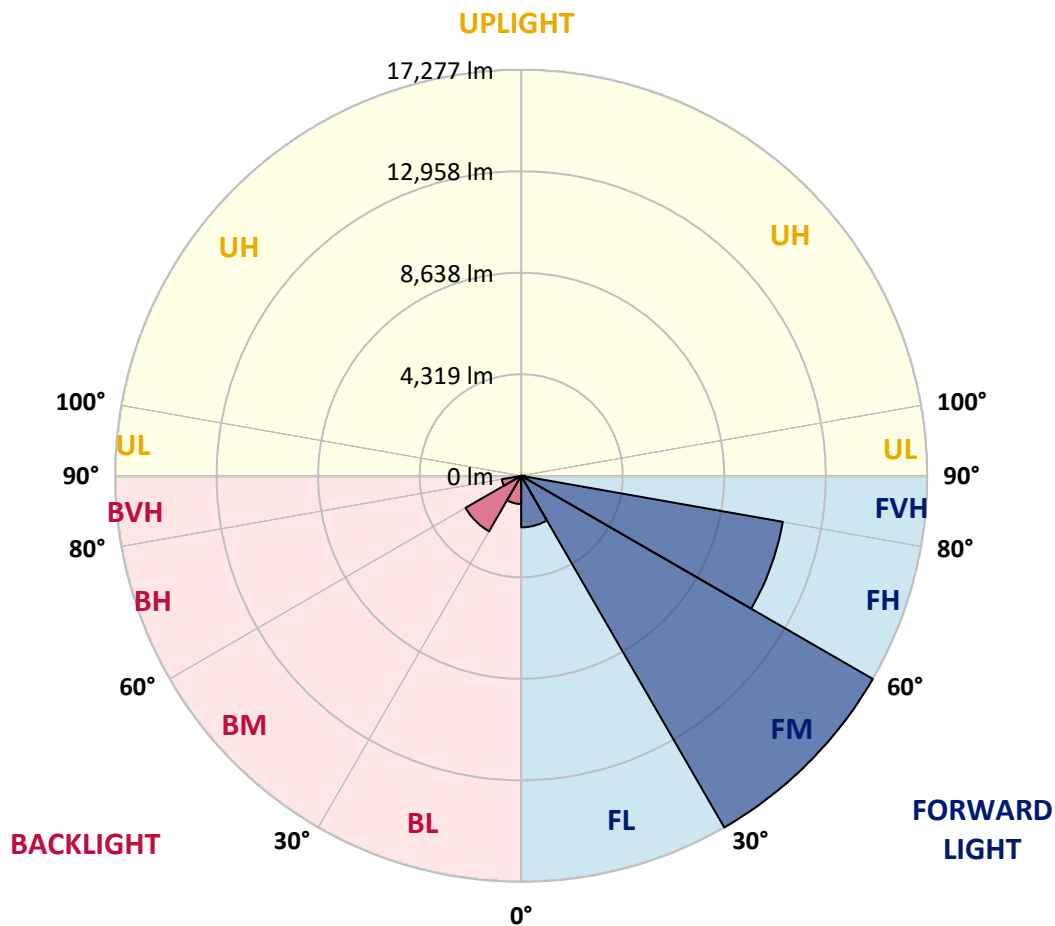
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2193.1	6.1			
FM	(30°-60°)	17276.9	48.4			
FH	(60°-80°)	11305.3	31.7			G4/12000
FVH	(80°-90°)	160.1	0.4			G2/225
BL	(0°-30°)	1199.0	3.4	B3/2500		
BM	(30°-60°)	2730.2	7.6	B3/5000		
BH	(60°-80°)	838.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	8.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6
2.5°	4139.2	4167.9	4160.7	4153.6	4151.2	4156.0	4158.3	4156.0	4156.0	4156.0	4158.3
5°	4060.2	4084.1	4084.1	4100.9	4124.8	4153.6	4175.1	4179.9	4184.7	4191.9	4189.5
7.5°	3909.4	3928.5	3942.9	3998.0	4057.8	4134.4	4199.0	4232.6	4237.3	4263.7	4273.3
10°	3806.4	3830.4	3854.3	3911.8	3998.0	4112.9	4223.0	4304.4	4316.4	4378.6	4407.3
12.5°	3801.6	3825.6	3856.7	3918.9	4019.5	4141.6	4275.7	4393.0	4414.5	4505.5	4565.3
15°	3851.9	3880.6	3909.4	3986.0	4093.7	4242.1	4385.8	4531.8	4553.4	4682.6	4747.3
17.5°	3954.9	3993.2	4014.7	4091.3	4206.2	4371.4	4560.5	4728.1	4747.3	4898.1	4979.5
20°	4158.3	4203.8	4211.0	4273.3	4385.8	4562.9	4788.0	4996.2	5020.2	5192.5	5283.5
22.5°	4579.7	4644.3	4586.9	4618.0	4718.5	4895.7	5139.9	5403.2	5436.7	5633.0	5714.4
25°	5321.8	5412.8	5264.4	5211.7	5254.8	5439.1	5745.6	6078.3	6116.6	6274.6	6315.3
27.5°	6779.8	6662.5	6437.4	6217.2	6087.9	6193.2	6538.0	6949.7	6997.6	7150.8	7102.9
30°	8381.3	8278.4	7974.4	7486.0	7179.6	7162.8	7481.2	7940.8	7995.9	8141.9	7995.9
32.5°	9985.3	9887.1	9556.8	8955.9	8424.4	8161.1	8381.3	8891.3	8920.0	9013.3	8797.9
35°	11562.9	11462.4	11132.0	10516.8	9863.2	9264.7	9221.6	9796.2	9805.8	9903.9	9583.1
37.5°	13150.1	13066.4	12714.4	12111.2	11467.2	10641.3	10241.5	10653.2	10665.2	10761.0	10428.2
40°	14282.5	14318.4	14076.6	13609.8	13056.8	12154.3	11385.8	11565.3	11493.5	11653.9	11455.2
42.5°	15254.5	15326.3	15115.6	14881.0	14560.2	13765.4	12803.0	12771.9	12657.0	12743.2	12537.3
45°	16094.7	16154.6	15965.5	15910.4	15903.2	15345.4	14351.9	14165.2	14004.8	13988.0	13741.5
47.5°	16403.6	16518.5	16599.9	16784.2	17143.3	16908.7	15953.5	15663.8	15484.3	15352.6	14962.4
50°	16520.9	16643.0	16920.7	17456.9	18306.8	18407.3	17547.9	17222.3	17002.1	16762.7	16188.1
52.5°	16362.9	16580.7	16954.2	17856.7	19089.6	19609.1	19077.6	18792.8	18541.4	18151.2	17298.9
55°	15431.6	15649.5	16413.1	17851.9	19479.8	20451.8	20523.6	20396.7	20114.2	19499.0	18196.7
57.5°	13468.5	13791.7	15000.7	17243.9	19472.7	21177.2	21940.9	22031.8	21715.8	20834.8	18902.9
60°	10749.0	11187.1	12661.8	15896.0	18871.8	21569.8	23183.3	23638.2	23303.0	22151.5	19475.0
62.5°	7500.3	8007.9	9403.6	13784.6	17497.6	21287.3	24090.6	24930.9	24677.2	23329.4	19695.3
65°	4574.9	4737.7	5862.9	10847.1	15161.1	20104.7	24370.7	25630.0	25546.2	24050.0	19369.7
67.5°	3047.5	3184.0	3507.2	7438.1	11768.8	17741.8	23700.4	25507.9	25531.8	23932.6	18177.5
70°	1836.2	1953.5	2164.2	4325.9	7627.2	14043.1	21624.8	23951.8	24090.6	22364.6	15917.6
72.5°	756.5	835.5	1027.0	1960.7	3950.1	8912.8	17219.9	20564.3	20887.5	18804.7	12216.5
75°	428.5	469.2	603.3	983.9	1714.1	4153.6	10430.6	14598.5	15074.9	12961.0	7349.5
77.5°	284.9	304.0	390.2	636.8	964.8	1417.2	4457.6	7605.7	8515.4	7079.0	3181.6
80°	191.5	208.3	268.1	426.1	627.2	608.1	1419.6	2817.7	3466.5	2432.3	775.7
82.5°	129.3	131.7	191.5	280.1	397.4	294.5	418.9	876.2	1101.2	703.8	294.5
85°	74.2	71.8	141.2	162.8	177.2	122.1	126.9	263.3	344.7	296.9	167.6
87.5°	9.6	14.4	55.1	43.1	23.9	26.3	26.3	45.5	67.0	71.8	35.9
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°	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6	4153.6
2.5°	4158.3	4156.0	4148.8	4141.6	4124.8	4115.3	4120.0	4115.3	4112.9	4115.3	4124.8
5°	4189.5	4182.3	4163.1	4139.2	4105.7	4065.0	4038.6	4000.3	3964.4	3942.9	3947.7
7.5°	4273.3	4266.1	4239.7	4172.7	4065.0	3895.0	3739.4	3602.9	3500.0	3440.2	3442.5
10°	4407.3	4395.4	4354.7	4206.2	3923.7	3552.7	3243.8	2987.7	2820.1	2741.1	2733.9
12.5°	4565.3	4551.0	4479.1	4175.1	3655.6	3076.3	2650.1	2365.3	2209.6	2140.2	2133.0
15°	4752.1	4732.9	4591.7	4026.7	3265.4	2549.6	2159.4	1946.3	1845.8	1783.5	1785.9
17.5°	4984.3	4950.8	4675.4	3804.0	2841.7	2147.4	1857.7	1697.3	1608.8	1548.9	1544.1
20°	5285.9	5230.9	4742.5	3538.3	2451.4	1893.6	1654.2	1520.2	1453.1	1400.5	1390.9
22.5°	5707.3	5628.3	4823.9	3251.0	2176.1	1718.9	1503.4	1405.3	1350.2	1290.4	1280.8
25°	6229.1	6135.8	4924.4	2985.3	1987.0	1568.1	1393.3	1311.9	1247.3	1177.8	1170.7
27.5°	6959.3	6791.7	5044.1	2767.4	1824.2	1438.8	1292.8	1201.8	1127.6	1070.1	1058.1
30°	7773.3	7498.0	5149.5	2635.8	1675.8	1319.1	1161.1	1070.1	1000.7	960.0	952.8
32.5°	8544.1	8170.7	5218.9	2578.3	1541.7	1182.6	1017.4	919.3	866.6	854.7	861.8
35°	9271.9	8778.7	5211.7	2523.3	1422.0	1046.2	876.2	775.7	735.0	742.1	742.1
37.5°	10109.8	9427.5	5161.4	2437.1	1323.9	921.7	754.1	665.5	629.6	632.0	641.6
40°	11084.1	10176.8	5130.3	2274.3	1216.1	806.8	653.6	581.7	555.4	545.8	543.4
42.5°	12123.1	10902.2	5135.1	2089.9	1082.1	703.8	584.1	524.3	500.3	493.2	490.8
45°	13166.9	11594.1	5142.3	1898.4	940.8	624.8	533.9	483.6	469.2	459.6	459.6
47.5°	14148.4	12183.0	5008.2	1692.5	802.0	565.0	493.2	459.6	447.7	435.7	435.7
50°	15062.9	12575.6	4685.0	1453.1	691.9	517.1	462.0	438.1	426.1	414.2	414.2
52.5°	15774.0	12637.8	4151.2	1206.6	615.3	481.2	442.9	421.3	407.0	395.0	392.6
55°	16090.0	12247.6	3392.3	976.7	555.4	450.1	423.7	402.2	385.4	373.5	371.1
57.5°	16008.6	11426.5	2645.4	785.2	497.9	418.9	399.8	385.4	366.3	347.1	344.7
60°	15608.8	10327.6	1994.2	653.6	445.3	385.4	373.5	361.5	335.2	306.4	301.6
62.5°	14916.9	8946.3	1422.0	541.0	387.8	347.1	342.3	332.8	294.5	241.8	237.0
65°	13858.8	7268.1	957.6	450.1	332.8	304.0	306.4	289.7	239.4	179.5	174.8
67.5°	12312.3	5314.6	612.9	368.7	277.7	253.8	256.2	246.6	203.5	153.2	146.0
70°	10342.0	3519.2	399.8	280.1	222.6	196.3	210.7	213.1	172.4	124.5	119.7
72.5°	7581.7	2078.0	280.1	208.3	162.8	136.5	172.4	177.2	138.9	93.4	88.6
75°	4321.1	986.3	210.7	150.8	100.5	95.8	134.1	134.1	95.8	62.2	57.5
77.5°	1814.6	411.8	148.4	98.2	57.5	55.1	91.0	83.8	47.9	28.7	28.7
80°	524.3	184.3	79.0	47.9	23.9	21.5	35.9	26.3	12.0	4.8	4.8
82.5°	205.9	81.4	31.1	19.2	9.6	9.6	4.8	0.0	0.0	0.0	0.0
85°	122.1	33.5	14.4	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.1	7.2	4.8	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)