

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: P950242

Luminaire Tested: **GALN-SB4D-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-730-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31168 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 293.6
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

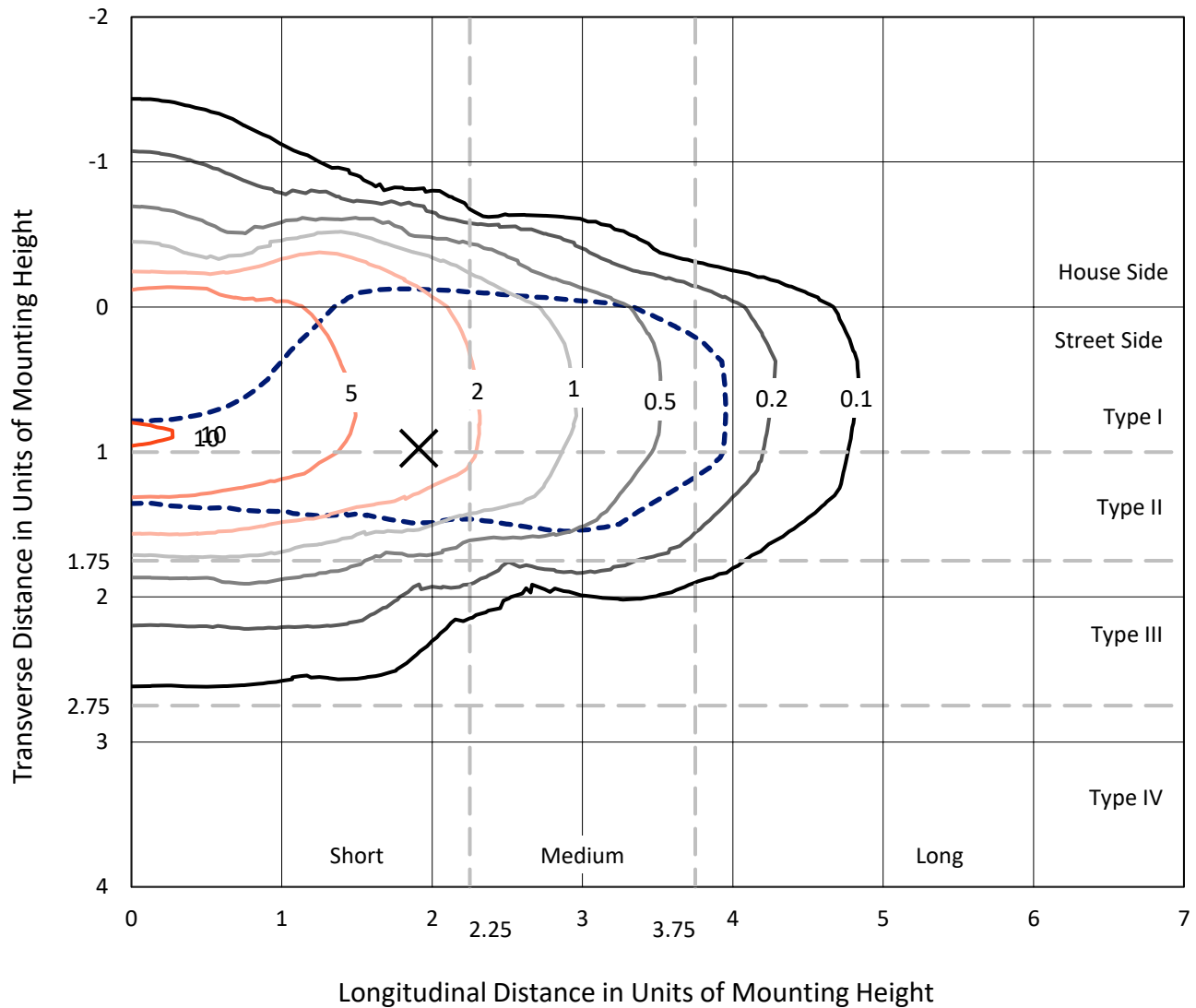


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Iso-Footcandle Lines of Horizontal Illumination

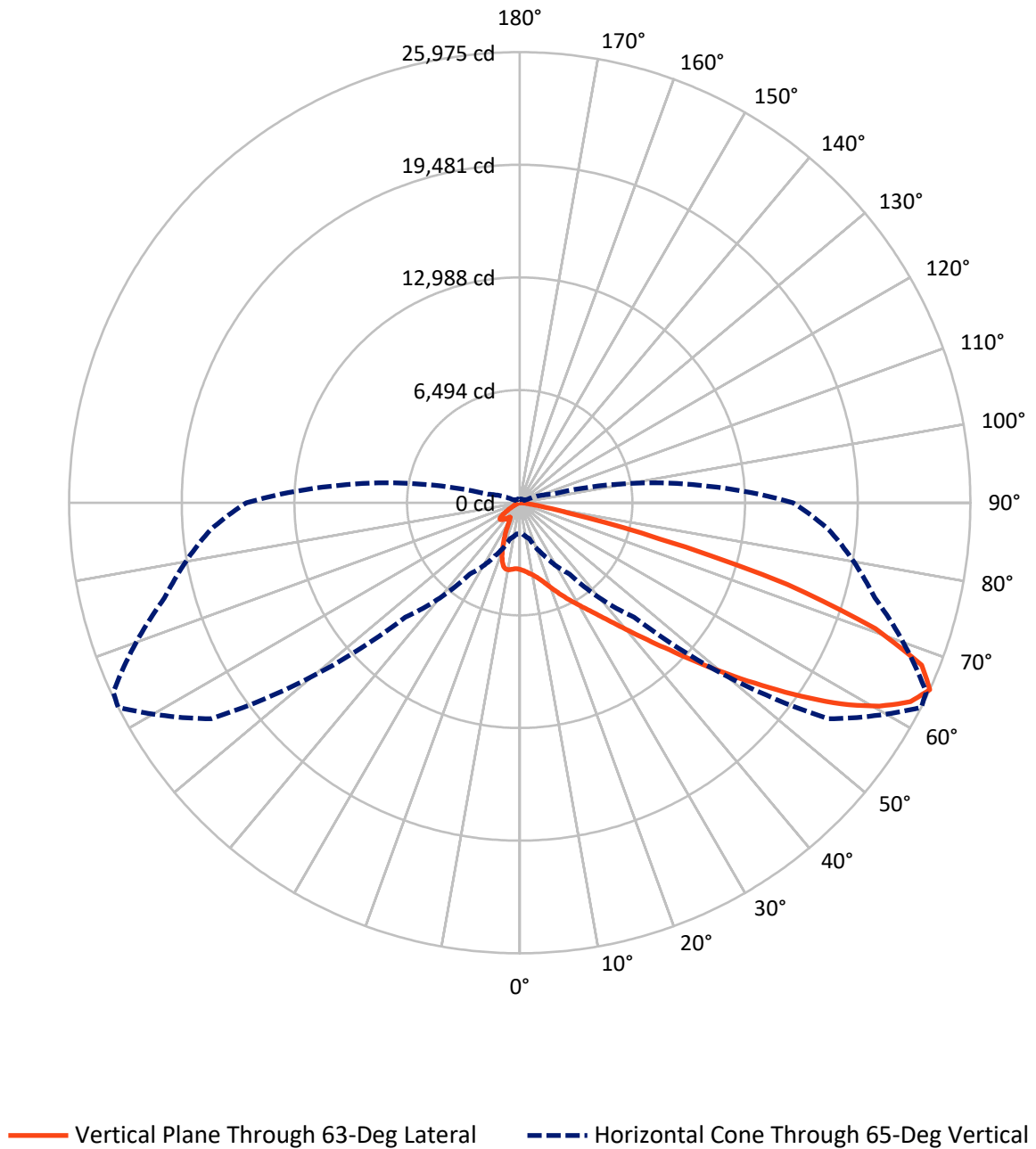
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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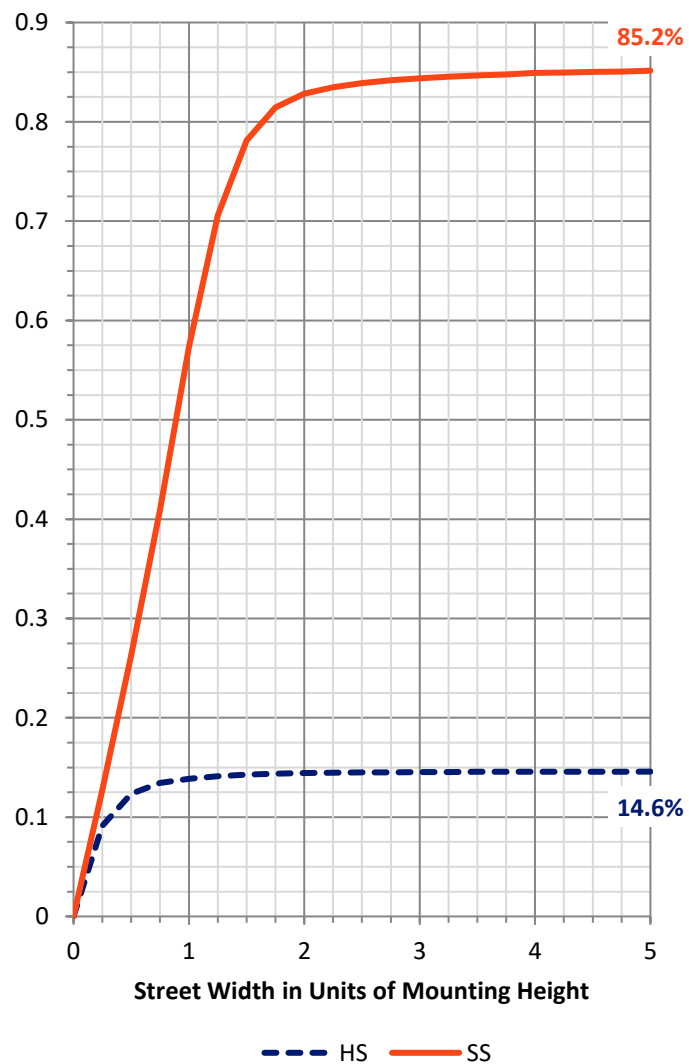
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4581.5	0.0	4581.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	26586.5	0.0	26586.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	31168.0	0.0	31168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.4	1.2
10°-20°	1005.6	3.2
20°-30°	1751.0	5.6
30°-40°	3156.1	10.1
40°-50°	6259.5	20.1
50°-60°	8526.5	27.4
60°-70°	6805.8	21.8
70°-80°	3079.8	9.9
80°-90°	221.4	0.7
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°	31168.0	100.0
0°-180°	31168.0	100.0

Coefficient of Utilization



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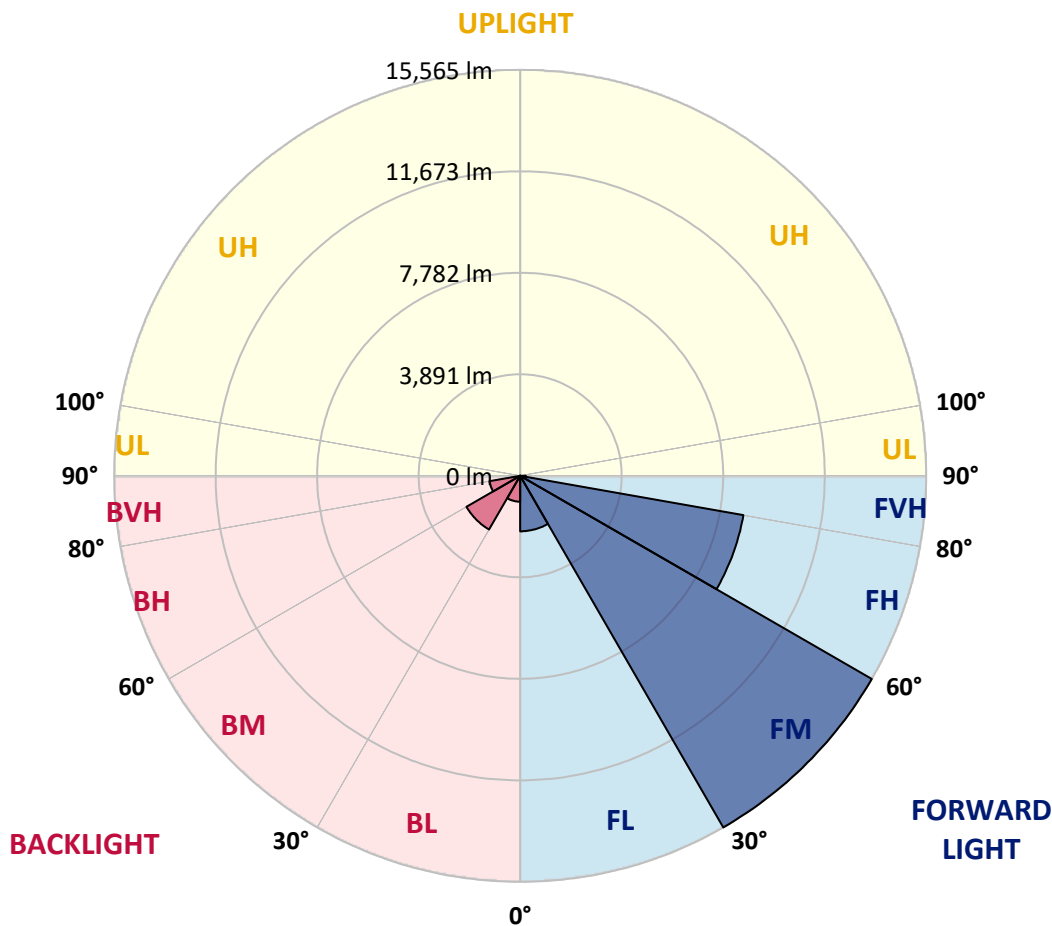
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2127.6	6.8			
FM	(30°-60°)	15564.5	49.9			
FH	(60°-80°)	8689.5	27.9			G4/12000
FVH	(80°-90°)	204.9	0.7			G2/225
BL	(0°-30°)	991.5	3.2	B2/1000		
BM	(30°-60°)	2377.5	7.6	B2/2500		
BH	(60°-80°)	1196.0	3.8	B3/2500		G3/2500
BVH	(80°-90°)	16.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7
2.5°	3936.8	3926.1	3941.1	3934.6	3930.3	3921.8	3917.5	3913.2	3904.6	3898.2	3872.5
5°	3947.5	3941.1	3956.1	3968.9	3981.8	3994.7	4001.1	4009.7	4001.1	3983.9	3958.2
7.5°	3857.4	3853.2	3885.3	3923.9	3981.8	4031.1	4084.7	4114.7	4116.9	4110.5	4082.6
10°	3851.0	3840.3	3872.5	3919.6	3994.7	4082.6	4176.9	4241.3	4249.8	4277.7	4247.7
12.5°	3951.8	3941.1	3986.1	4037.6	4114.7	4206.9	4322.7	4412.8	4425.7	4464.3	4442.8
15°	4121.2	4106.2	4157.6	4224.1	4322.7	4427.8	4550.0	4631.5	4642.2	4689.4	4650.8
17.5°	4318.4	4303.4	4363.5	4434.2	4541.4	4685.1	4826.6	4916.7	4929.5	4959.6	4888.8
20°	4571.5	4552.2	4599.3	4663.7	4777.3	4948.8	5118.2	5246.9	5244.7	5244.7	5129.0
22.5°	4865.2	4835.2	4875.9	4927.4	5034.6	5242.6	5467.7	5620.0	5620.0	5559.9	5369.1
25°	5180.4	5150.4	5195.4	5242.6	5336.9	5572.8	5836.6	6025.2	6033.8	5930.9	5626.4
27.5°	5575.0	5536.4	5570.7	5626.4	5682.2	5922.3	6235.4	6454.1	6458.4	6299.7	5870.9
30°	6334.0	6224.7	6117.4	6057.4	6083.1	6321.1	6655.6	6897.9	6919.4	6700.7	6136.7
32.5°	7723.5	7702.0	7324.6	6831.5	6574.2	6750.0	7125.2	7416.8	7429.7	7148.8	6482.0
35°	9882.7	9857.0	9250.1	8311.0	7472.6	7324.6	7695.6	8040.8	8032.2	7714.9	6930.1
37.5°	12460.0	12436.4	11636.6	10380.1	9022.9	8193.0	8431.0	8793.4	8847.0	8431.0	7509.0
40°	14662.1	14574.2	14068.2	12856.7	11081.3	9634.0	9477.4	9717.6	9773.3	9280.2	8244.5
42.5°	16330.3	16255.3	15998.0	15241.1	13572.9	11765.3	10710.3	10802.6	10864.7	10272.9	9089.3
45°	17194.5	17177.3	17280.2	17209.5	16111.6	14381.2	12472.9	12089.1	12112.7	11372.9	10047.8
47.5°	17316.7	17308.1	17777.7	18442.4	18294.4	17331.7	14735.0	13693.0	13609.3	12614.4	11089.9
50°	16596.2	16579.1	17479.6	18725.4	19752.5	19810.4	17303.8	15500.5	15316.1	13898.8	12177.0
52.5°	14295.5	14291.2	15770.7	17844.1	20265.0	21980.3	19842.6	17486.1	17177.3	15258.2	13326.3
55°	10999.8	11079.2	12775.2	15226.1	19330.1	23024.6	22121.9	19690.3	19216.4	16626.2	14385.5
57.5°	7792.1	7907.9	9584.6	11767.4	16431.1	22407.0	23663.5	21898.9	21388.5	17990.0	15459.8
60°	4185.5	4288.4	5967.3	8572.6	12224.2	20104.2	24476.2	23815.8	23333.3	19285.1	16429.0
62.5°	2493.7	2528.0	3222.8	5534.2	8268.1	15359.0	24131.0	25276.0	24879.3	20372.2	17271.6
65°	1790.4	1796.9	2146.4	3379.3	5019.6	9331.6	21710.2	25975.0	25852.8	21191.3	17895.6
67.5°	1507.4	1503.1	1648.9	2245.0	3420.0	4674.4	16639.1	24986.5	25505.4	21710.2	18249.4
70°	1293.0	1299.4	1470.9	1644.6	2570.9	2646.0	8272.4	21755.2	22861.6	21847.4	18228.0
72.5°	962.8	984.2	1142.9	1498.8	1940.5	1820.4	2856.1	16130.9	18131.5	20584.5	17282.4
75°	679.7	690.4	804.1	1260.8	1447.3	1325.1	1458.1	8338.8	10903.3	15781.4	14145.4
77.5°	523.2	542.5	609.0	881.3	1425.9	930.6	892.0	2886.1	4434.2	9533.2	9698.3
80°	283.0	317.3	439.6	636.8	1001.3	658.3	441.7	1149.3	1503.1	4457.8	3739.5
82.5°	145.8	163.0	306.6	458.9	570.4	574.6	218.7	478.2	619.7	1376.6	512.5
85°	57.9	70.8	205.8	253.0	293.8	283.0	98.6	193.0	223.0	381.7	156.5
87.5°	12.9	21.4	75.0	57.9	55.7	60.0	23.6	45.0	42.9	45.0	27.9
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°	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7	3846.7
2.5°	3870.3	3861.7	3838.1	3812.4	3782.4	3765.2	3754.5	3752.4	3737.4	3726.6	3737.4
5°	3934.6	3926.1	3881.0	3827.4	3769.5	3724.5	3681.6	3643.0	3587.3	3576.5	3572.3
7.5°	4063.3	4039.7	3966.8	3893.9	3784.5	3653.7	3495.1	3312.8	3149.9	3100.5	3076.9
10°	4222.0	4189.8	4097.6	3968.9	3726.6	3370.7	2986.9	2631.0	2347.9	2268.6	2238.6
12.5°	4402.1	4374.2	4252.0	4014.0	3484.3	2838.9	2251.4	1809.7	1535.3	1466.6	1447.3
15°	4616.5	4575.8	4406.4	3945.4	3051.2	2157.1	1546.0	1284.4	1185.8	1172.9	1160.0
17.5°	4843.8	4777.3	4543.6	3698.8	2468.0	1533.1	1194.3	1119.3	1076.4	1063.5	1057.1
20°	5051.8	4966.0	4625.1	3325.7	1844.0	1194.3	1070.0	1020.6	982.1	967.0	958.5
22.5°	5259.8	5137.5	4625.1	2817.5	1383.0	1059.2	982.1	937.0	892.0	872.7	862.0
25°	5476.3	5313.4	4543.6	2251.4	1112.8	971.3	898.4	849.1	810.5	786.9	778.3
27.5°	5686.5	5461.3	4357.0	1715.4	990.6	894.1	821.2	774.1	737.6	720.5	720.5
30°	5885.9	5607.1	4095.4	1301.5	911.3	819.1	750.5	709.7	673.3	656.1	658.3
32.5°	6156.0	5791.5	3816.7	1067.8	842.7	748.3	686.1	647.6	615.4	602.5	602.5
35°	6531.3	6063.8	3576.5	1048.5	784.8	690.4	628.3	591.8	559.6	548.9	548.9
37.5°	7063.0	6503.4	3450.0	1177.2	737.6	639.0	581.1	542.5	512.5	503.9	501.7
40°	7719.2	7099.5	3518.7	1305.8	705.4	593.9	538.2	499.6	473.9	463.2	461.0
42.5°	8497.5	7835.0	3898.2	1404.5	684.0	555.4	497.5	454.6	437.4	433.1	433.1
45°	9391.7	8643.3	4479.3	1509.5	649.7	518.9	456.7	424.6	411.7	409.5	407.4
47.5°	10408.0	9531.0	5152.5	1640.3	615.4	484.6	424.6	403.1	392.4	388.1	388.1
50°	11415.8	10425.2	5845.1	1713.2	587.5	452.4	398.8	381.7	373.1	370.9	370.9
52.5°	12470.7	11345.0	6404.8	1644.6	563.9	426.7	377.4	364.5	355.9	353.8	353.8
55°	13476.4	12089.1	6501.3	1395.9	516.8	401.0	353.8	347.4	336.6	336.6	334.5
57.5°	14342.6	12462.2	5819.4	1024.9	469.6	362.4	330.2	323.8	315.2	313.1	310.9
60°	15138.2	12355.0	4492.1	690.4	418.1	323.8	300.2	295.9	287.3	276.6	274.5
62.5°	15586.3	11883.2	3072.7	450.3	366.7	283.0	265.9	263.7	244.4	223.0	218.7
65°	15755.7	10914.0	1916.9	328.1	306.6	242.3	229.4	225.1	197.3	173.7	171.5
67.5°	15607.7	9318.8	967.0	259.4	242.3	201.6	188.7	188.7	169.4	148.0	145.8
70°	15015.9	6985.8	407.4	208.0	186.5	154.4	154.4	163.0	143.7	120.1	117.9
72.5°	13731.5	4700.1	216.6	158.7	139.4	109.4	126.5	132.9	113.6	90.1	90.1
75°	10916.2	2866.8	150.1	117.9	87.9	77.2	96.5	100.8	77.2	60.0	57.9
77.5°	7466.2	1646.8	100.8	75.0	55.7	45.0	66.5	62.2	40.7	27.9	30.0
80°	3278.5	686.1	57.9	34.3	21.4	17.2	23.6	17.2	12.9	8.6	8.6
82.5°	383.8	160.8	21.4	12.9	8.6	4.3	2.1	0.0	0.0	0.0	0.0
85°	79.3	19.3	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	4.3	2.1	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)