

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: P452778

Luminaire Tested: **GALN-SA3D-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20993 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

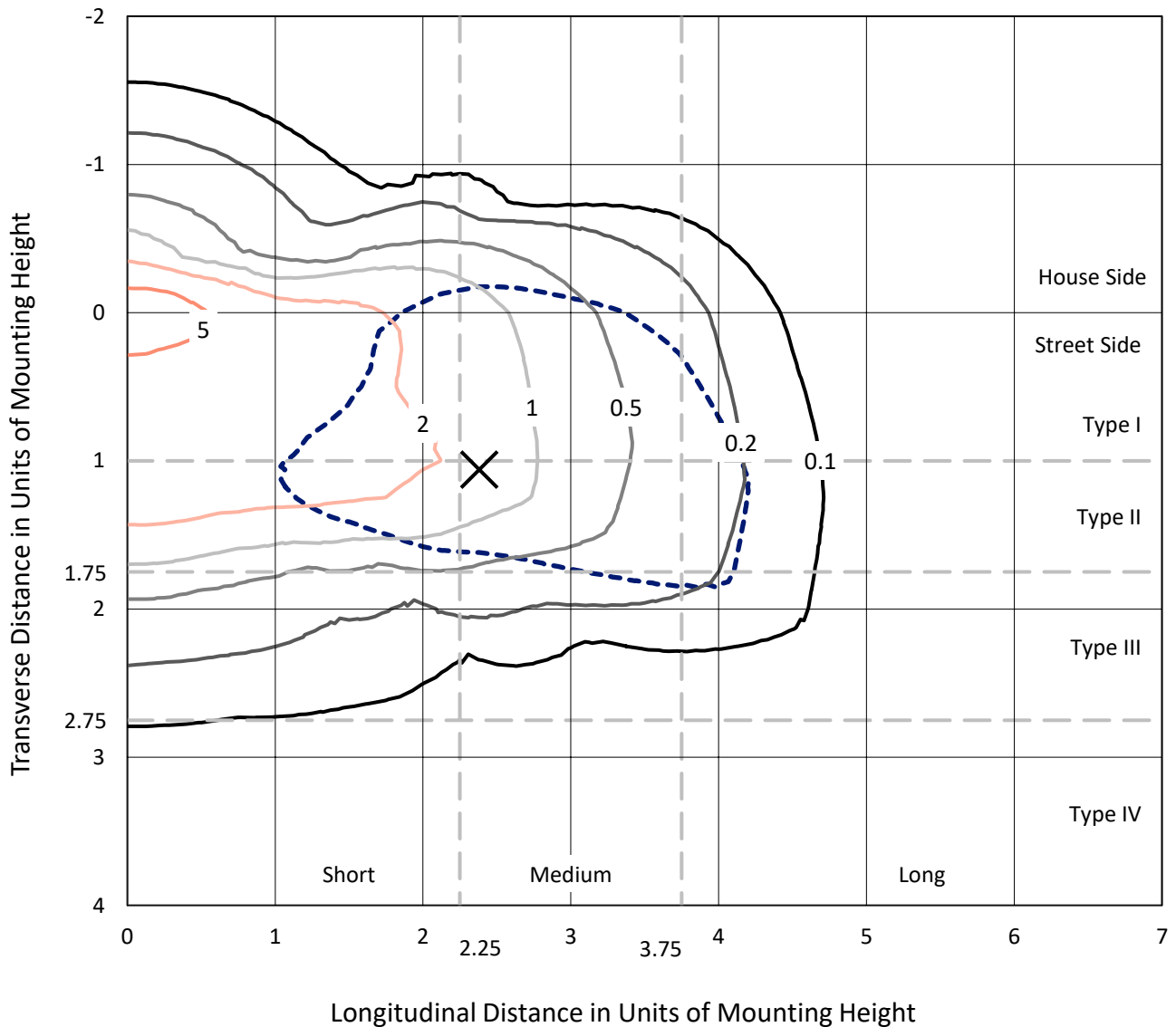
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

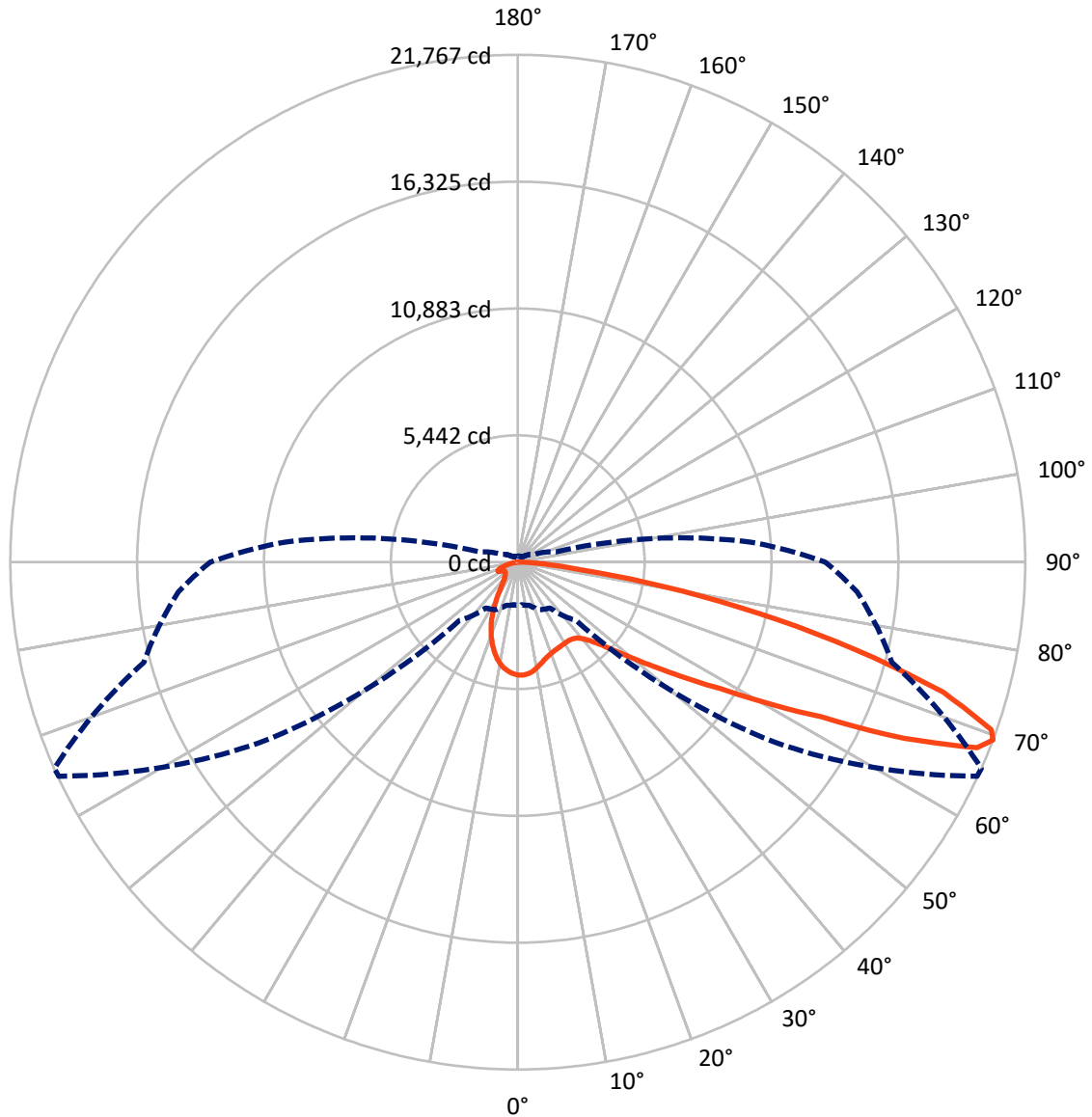
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - 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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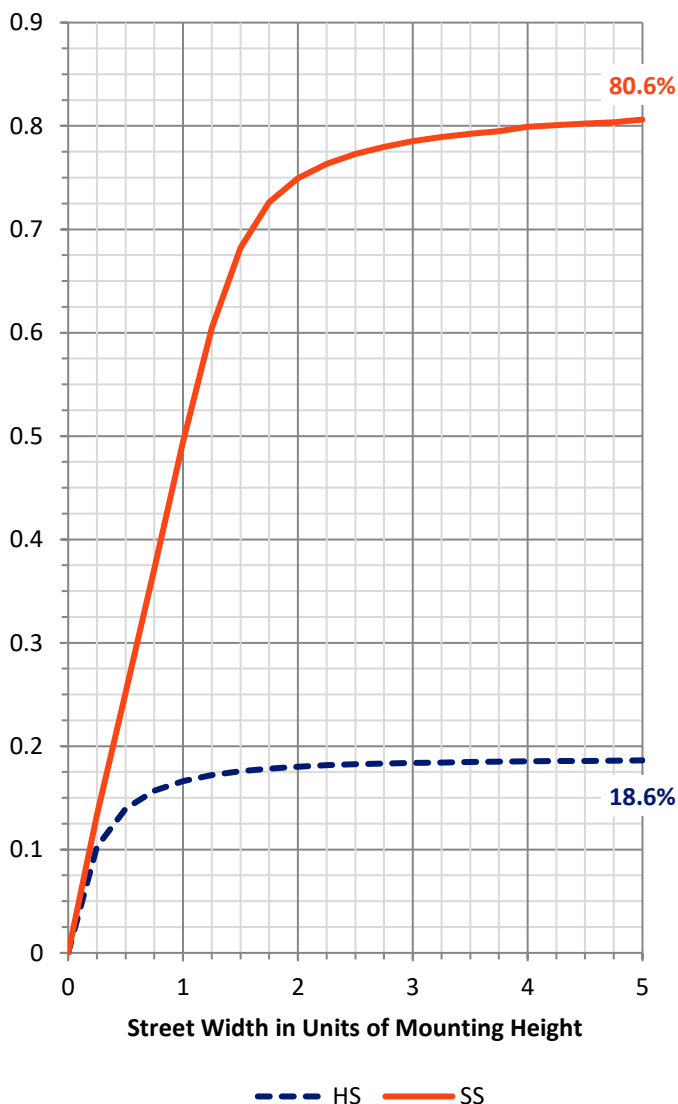
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3948.0	0.0	3948.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17045.0	0.0	17045.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	20993.0	0.0	20993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.0	2.0
10°-20°	998.5	4.8
20°-30°	1359.4	6.5
30°-40°	1826.7	8.7
40°-50°	2727.6	13.0
50°-60°	4338.7	20.7
60°-70°	5336.3	25.4
70°-80°	3472.1	16.5
80°-90°	512.7	2.4
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°	20993.0	100.0
0°-180°	20993.0	100.0

Coefficient of Utilization



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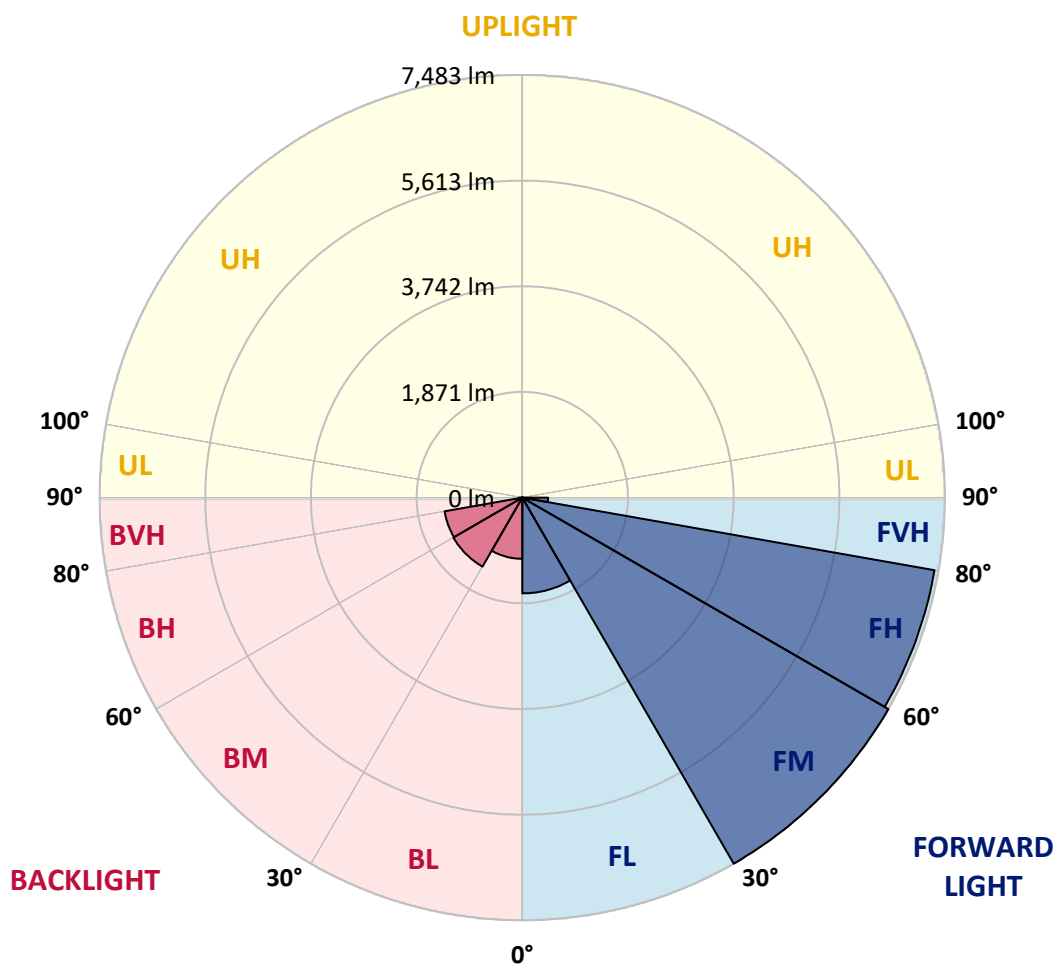
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1695.2	8.1			
FM	(30°-60°)	7483.4	35.6			
FH	(60°-80°)	7410.6	35.3			G3/7500
FVH	(80°-90°)	455.8	2.2			G3/500
BL	(0°-30°)	1083.7	5.2	B3/2500		
BM	(30°-60°)	1409.6	6.7	B2/2500		
BH	(60°-80°)	1397.8	6.7	B3/2500		G3/2500
BVH	(80°-90°)	56.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9
2.5°	4678.1	4696.7	4717.7	4740.9	4785.1	4809.5	4826.9	4846.7	4849.0	4859.5	4851.4
5°	4332.9	4354.9	4386.3	4430.5	4496.8	4600.2	4707.2	4794.4	4804.9	4853.7	4867.6
7.5°	4044.5	4057.3	4082.9	4153.8	4248.0	4363.1	4518.9	4695.6	4721.1	4837.4	4878.1
10°	3809.7	3822.5	3852.7	3926.0	4019.0	4163.1	4334.0	4566.5	4587.5	4787.4	4880.4
12.5°	3634.2	3645.8	3678.3	3750.4	3857.4	3992.2	4180.6	4427.0	4457.2	4721.1	4858.3
15°	3500.5	3522.6	3549.3	3608.6	3721.3	3851.6	4034.1	4299.1	4323.6	4651.4	4843.2
17.5°	3443.5	3454.0	3472.6	3527.2	3609.7	3737.6	3921.3	4199.2	4228.2	4602.6	4839.7
20°	3445.8	3456.3	3459.8	3490.0	3549.3	3659.7	3841.1	4120.1	4155.0	4559.6	4845.5
22.5°	3524.9	3526.0	3513.3	3502.8	3526.0	3617.9	3784.1	4060.8	4101.5	4541.0	4850.2
25°	3646.9	3667.9	3649.3	3600.4	3557.4	3601.6	3762.0	4028.3	4066.6	4514.2	4844.4
27.5°	3844.6	3848.1	3833.0	3766.7	3655.1	3622.5	3752.7	4003.8	4036.4	4494.4	4815.3
30°	4109.6	4099.2	4085.2	4012.0	3836.4	3702.7	3772.5	3981.8	4015.5	4465.4	4780.4
32.5°	4378.2	4410.7	4398.0	4311.9	4084.1	3858.5	3836.4	3979.4	4007.3	4443.3	4742.1
35°	4663.0	4678.1	4738.6	4694.4	4460.7	4110.8	3956.2	4015.5	4037.6	4444.5	4715.3
37.5°	4886.2	4926.9	5068.8	5107.1	4887.4	4444.5	4150.3	4117.8	4127.1	4501.4	4725.8
40°	5155.9	5225.7	5408.2	5565.2	5421.0	4878.1	4480.5	4307.3	4318.9	4638.6	4794.4
42.5°	5497.7	5546.6	5791.9	6004.6	5981.4	5451.2	4880.4	4617.7	4623.5	4911.8	4986.2
45°	5897.7	5967.4	6242.9	6562.6	6617.3	6099.9	5458.2	5087.4	5083.9	5336.1	5344.3
47.5°	6409.2	6452.2	6725.4	7074.2	7295.1	6914.9	6159.2	5761.6	5724.4	5954.6	5888.4
50°	6880.0	6947.4	7154.4	7535.7	8085.6	7869.4	7081.1	6635.9	6548.7	6763.8	6652.2
52.5°	7077.7	7148.6	7323.0	7796.1	8763.4	9104.0	8251.8	7678.7	7533.4	7698.5	7657.8
55°	6734.7	6826.5	6989.3	7564.8	9061.0	10528.1	9830.6	8884.3	8778.5	8707.6	8719.2
57.5°	5812.8	5900.0	6119.7	6754.5	8705.2	11561.6	12084.8	10434.0	10207.3	9880.6	9936.4
60°	4424.7	4479.3	4593.3	5296.6	7650.8	11830.2	14644.7	12392.9	12248.7	11049.0	11088.5
62.5°	3142.4	3204.0	3283.1	3634.2	5601.2	11073.4	16649.0	15128.4	14613.4	12259.2	12220.8
65°	2551.8	2510.0	2605.3	2769.2	3286.6	8582.0	17100.1	18925.3	18216.1	13853.0	13320.6
67.5°	2098.4	2054.2	2148.4	2440.2	2499.5	4981.6	15474.8	21389.9	21248.1	15586.4	14437.8
69°	1857.8	1834.5	1917.1	2249.5	2399.5	3537.7	13481.0	21732.9	21766.6	16608.3	14609.9
70°	1674.1	1683.4	1763.6	2153.1	2354.2	2916.9	11522.1	21259.7	21545.7	17118.7	14423.9
72.5°	1232.3	1252.1	1363.7	1783.4	2311.2	2475.1	6856.8	18569.5	19075.3	17148.9	13195.0
75°	861.5	852.2	951.0	1342.8	2183.3	2453.0	4027.1	14361.1	14934.2	14822.6	11087.3
77.5°	563.8	579.0	658.0	948.6	1836.8	2434.4	2625.1	10188.7	10560.7	9913.1	6558.0
80°	397.6	396.4	440.6	647.5	1362.5	2339.1	2149.6	6422.0	6327.8	3895.7	1945.0
82.5°	227.9	244.1	295.3	455.7	911.4	2058.9	1977.5	3071.5	2804.1	1110.2	656.8
85°	126.7	132.5	175.5	275.5	532.5	1550.9	1726.4	1397.4	1318.3	463.9	282.5
87.5°	40.7	44.2	73.2	139.5	241.8	732.4	977.7	645.2	595.2	167.4	113.9
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°	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9	4847.9
2.5°	4854.8	4868.8	4831.6	4795.6	4763.0	4717.7	4677.0	4643.3	4620.0	4616.5	4604.9
5°	4871.1	4872.3	4801.4	4706.0	4613.0	4510.7	4404.9	4329.4	4258.5	4218.9	4199.2
7.5°	4882.7	4872.3	4744.4	4589.8	4410.7	4224.7	4038.7	3889.9	3774.8	3729.5	3746.9
10°	4878.1	4845.5	4658.4	4410.7	4150.3	3872.5	3605.1	3395.8	3204.0	3105.2	3107.5
12.5°	4852.5	4799.0	4530.5	4209.6	3827.1	3455.1	3045.9	2763.4	2541.4	2410.0	2369.3
15°	4830.4	4737.4	4380.5	3936.4	3460.9	2929.6	2430.9	2082.1	1896.1	1792.7	1791.5
17.5°	4807.2	4678.1	4216.6	3646.9	3040.1	2356.5	1833.4	1567.1	1479.9	1490.4	1473.0
20°	4782.8	4608.4	4045.7	3324.9	2527.4	1757.8	1373.0	1264.9	1289.3	1336.9	1343.9
22.5°	4754.9	4534.0	3862.0	2970.3	1988.0	1323.0	1113.7	1097.5	1160.2	1234.6	1245.1
25°	4711.8	4441.0	3630.7	2599.5	1533.4	1066.1	975.4	987.0	1048.6	1111.4	1118.4
27.5°	4651.4	4325.9	3397.0	2136.8	1152.1	914.9	891.7	906.8	937.0	975.4	984.7
30°	4570.0	4195.7	3128.4	1736.9	923.1	839.4	830.1	838.2	855.6	871.9	876.6
32.5°	4488.6	4070.1	2857.6	1330.0	823.1	789.4	780.1	780.1	780.1	782.4	783.6
35°	4413.1	3951.5	2566.9	1035.8	770.8	749.8	737.1	723.1	720.8	712.6	712.6
37.5°	4371.2	3843.4	2257.7	867.3	732.4	717.3	699.9	676.6	663.8	665.0	662.7
40°	4379.4	3772.5	1976.3	771.9	701.0	684.7	658.0	631.3	623.1	623.1	620.8
42.5°	4471.2	3749.2	1706.6	721.9	670.8	652.2	618.5	594.1	589.4	588.3	590.6
45°	4682.8	3806.2	1464.8	689.4	645.2	617.3	583.6	561.5	556.9	556.9	555.7
47.5°	5095.5	3991.1	1291.6	668.5	626.6	590.6	555.7	533.6	525.5	523.2	523.2
50°	5737.2	4392.1	1162.6	649.9	603.4	566.2	530.1	504.6	491.8	490.6	489.4
52.5°	6628.9	5017.6	1112.6	635.9	577.8	540.6	501.1	476.6	460.4	456.9	454.6
55°	7671.7	5890.7	1181.2	625.5	551.1	511.5	470.8	445.3	430.1	423.2	422.0
57.5°	8879.6	6939.3	1441.6	611.5	526.6	480.1	440.6	415.0	398.8	390.6	388.3
60°	9964.3	8017.0	1896.1	603.4	505.7	446.4	405.7	382.5	367.4	359.2	358.1
62.5°	11155.9	9044.7	2439.0	625.5	496.4	413.9	373.2	352.3	339.5	331.3	331.3
65°	12428.9	10073.6	2798.3	699.9	510.4	388.3	338.3	320.9	309.2	303.4	302.3
67.5°	13286.9	10429.3	2305.4	776.6	545.2	360.4	304.6	290.6	283.7	277.9	277.9
69°	13193.9	9979.4	1700.8	796.4	555.7	346.4	286.0	275.5	266.2	263.9	261.6
70°	12899.7	9466.7	1425.3	783.6	547.6	333.7	274.4	261.6	253.4	251.1	249.9
72.5°	11489.6	8210.0	1061.4	681.3	466.2	289.5	243.0	231.3	224.4	220.9	220.9
75°	9545.8	6710.3	828.9	541.8	365.0	244.1	208.1	198.8	193.0	190.7	189.5
77.5°	5350.1	3746.9	595.2	424.3	276.7	197.6	174.4	166.2	160.4	158.1	158.1
80°	1490.4	1070.7	349.9	280.2	188.3	150.0	138.3	132.5	124.4	118.6	122.1
82.5°	561.5	463.9	200.0	168.6	119.7	100.0	96.5	91.8	88.4	80.2	80.2
85°	273.2	225.5	127.9	89.5	66.3	52.3	50.0	47.7	45.3	39.5	40.7
87.5°	94.2	100.0	55.8	32.6	19.8	12.8	10.5	5.8	5.8	5.8	5.8
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)