

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: P527870

Luminaire Tested: **GALN-SA2D-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10458 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 125
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

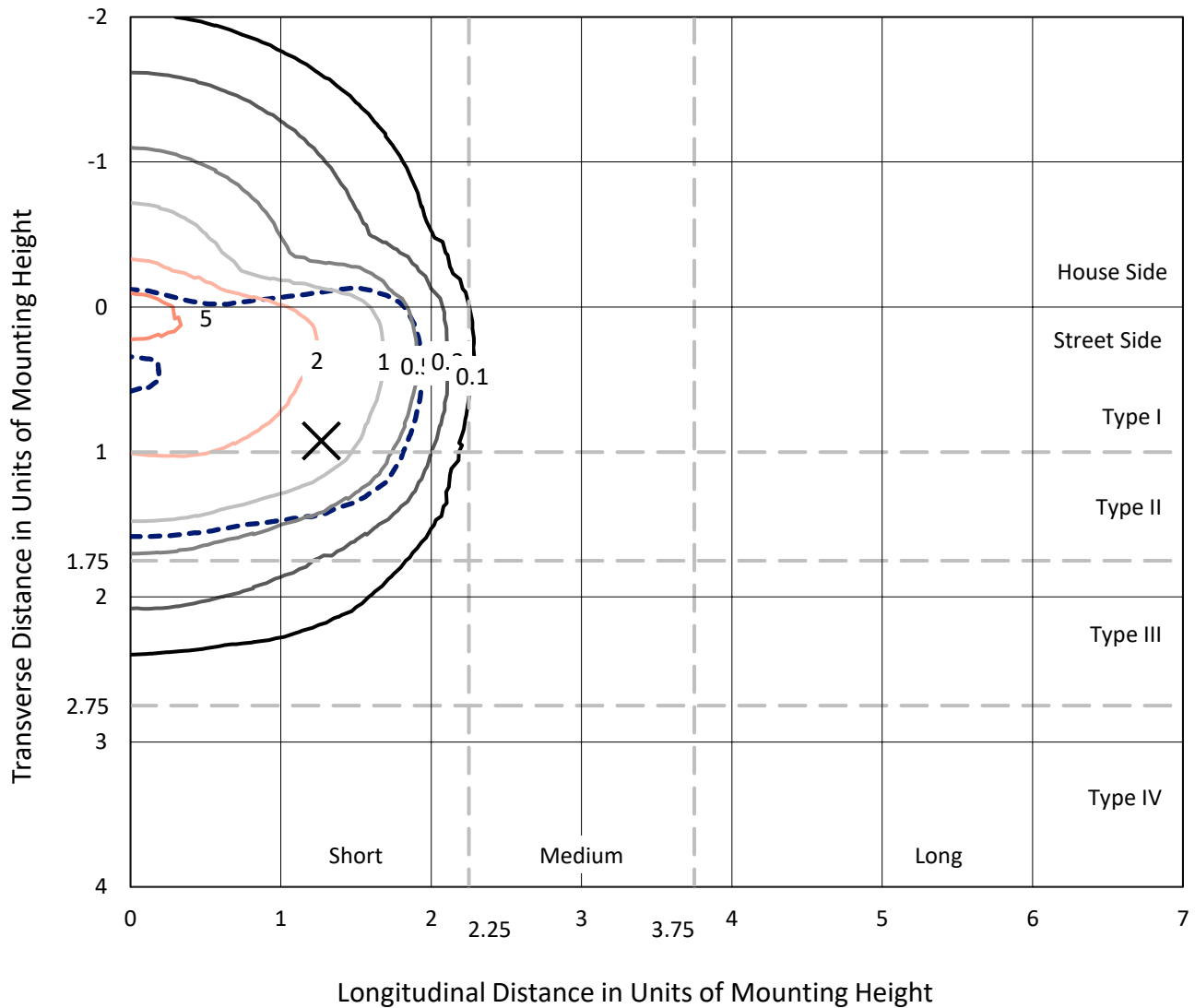


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Iso-Footcandle Lines of Horizontal Illumination

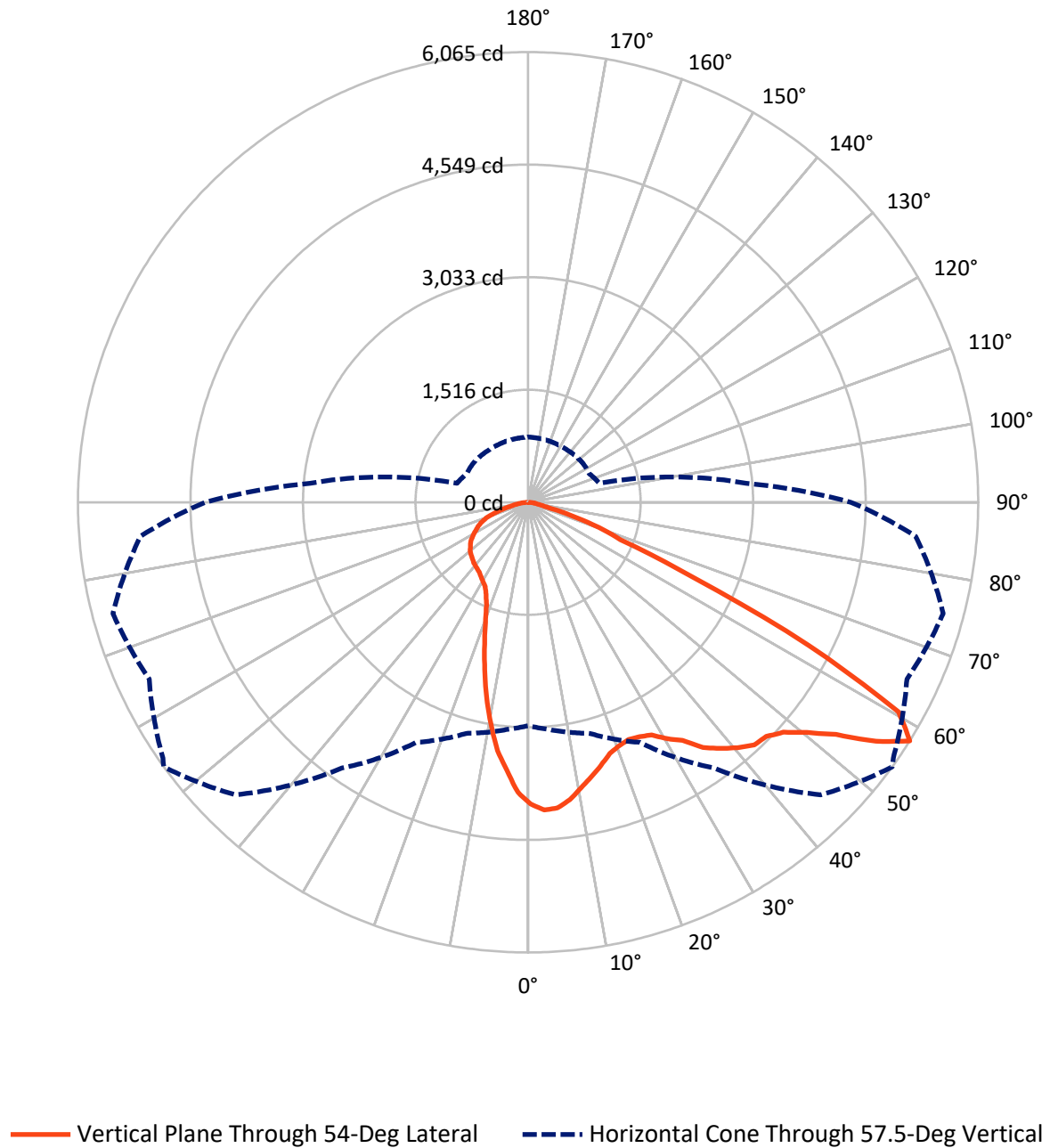
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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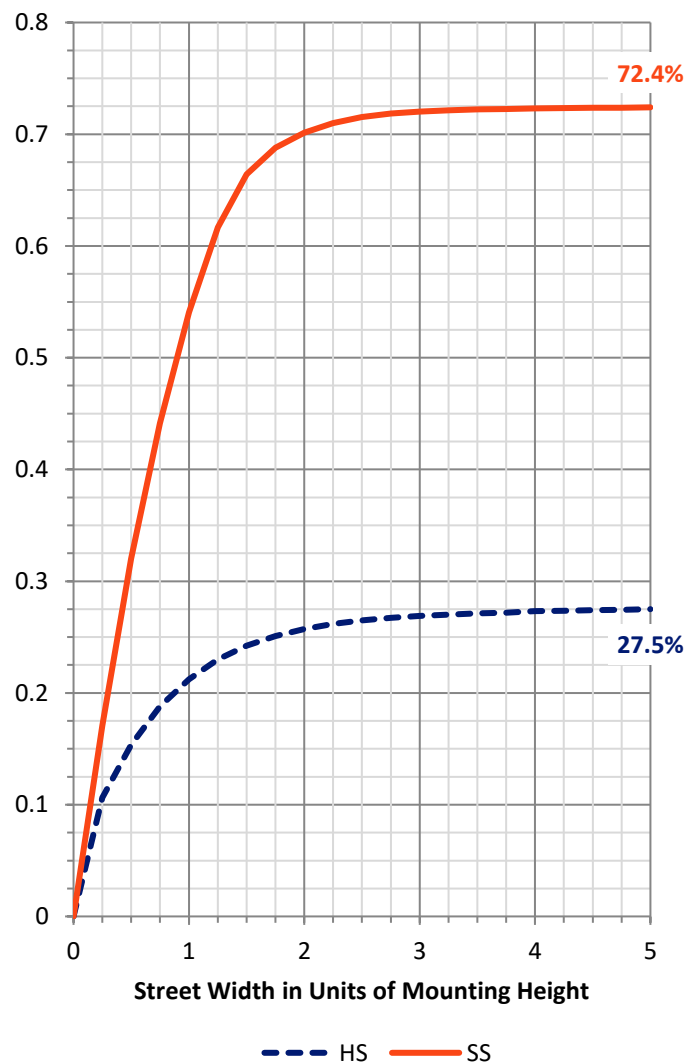
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2893.3	0.0	2893.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	7564.7	0.0	7564.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	10458.0	0.0	10458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.6	3.4
10°-20°	811.7	7.8
20°-30°	1140.4	10.9
30°-40°	1594.3	15.2
40°-50°	2158.4	20.6
50°-60°	2629.0	25.1
60°-70°	1369.3	13.1
70°-80°	350.9	3.4
80°-90°	53.5	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°	10458.0	100.0
0°-180°	10458.0	100.0

Coefficient of Utilization



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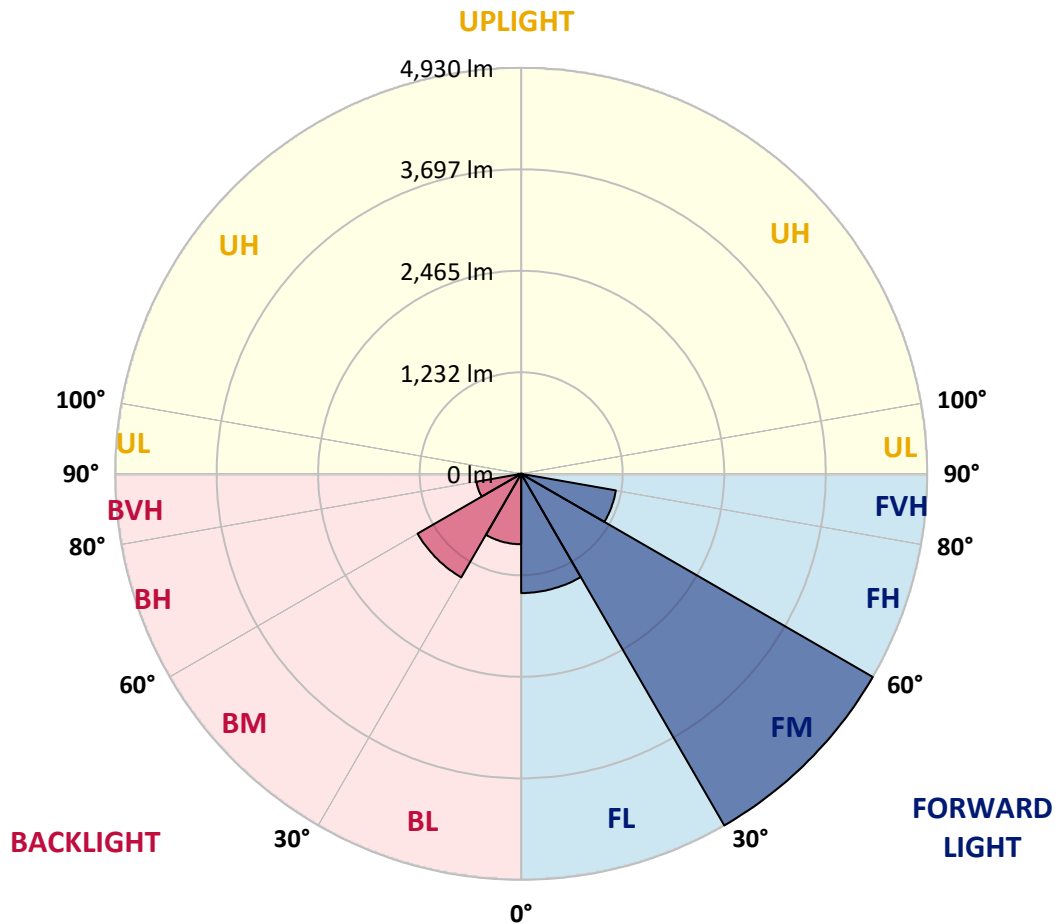
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1447.5	13.8			
FM	(30°-60°)	4929.6	47.1			
FH	(60°-80°)	1167.4	11.2			G1/1800
FVH	(80°-90°)	20.2	0.2			G1/100
BL	(0°-30°)	855.1	8.2	B2/1000		
BM	(30°-60°)	1452.1	13.9	B2/2500		
BH	(60°-80°)	552.8	5.3	B2/1000		G2/1000
BVH	(80°-90°)	33.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9
2.5°	4180.5	4164.4	4167.1	4188.6	4161.7	4150.9	4150.9	4098.5	4102.5	4066.2	4056.8
5°	4083.7	4046.1	4071.6	4103.9	4109.3	4120.0	4137.5	4124.1	4086.4	4047.4	3984.3
7.5°	3831.0	3864.6	3874.0	3896.9	3945.3	3989.6	4044.7	4007.1	4005.8	3966.8	3929.1
10°	3609.2	3589.1	3640.1	3673.7	3754.4	3828.3	3913.0	3909.0	3929.1	3884.8	3820.3
12.5°	3388.8	3372.6	3396.8	3473.5	3586.4	3693.9	3794.7	3757.1	3864.6	3856.6	3718.1
15°	3154.9	3167.0	3201.9	3273.2	3421.0	3550.1	3677.8	3679.1	3774.6	3806.8	3621.3
17.5°	2990.9	2977.4	3021.8	3128.0	3259.7	3414.3	3559.5	3589.1	3735.6	3754.4	3591.7
20°	2868.6	2887.4	2945.2	2998.9	3150.8	3337.7	3501.7	3512.4	3727.5	3778.6	3544.7
22.5°	2839.0	2828.2	2847.0	2934.4	3059.4	3262.4	3470.8	3511.1	3726.2	3770.5	3456.0
25°	2808.1	2843.0	2841.7	2929.0	3020.5	3201.9	3496.3	3540.7	3797.4	3812.2	3468.1
27.5°	2878.0	2873.9	2911.6	2918.3	3031.2	3218.0	3550.1	3583.7	3915.7	3903.6	3477.5
30°	2947.9	2927.7	2950.6	3029.9	3082.3	3310.8	3697.9	3695.2	4068.9	4060.9	3507.1
32.5°	3033.9	3024.5	3039.3	3109.2	3197.9	3434.5	3822.9	3902.3	4224.9	4275.9	3609.2
35°	3050.0	3089.0	3124.0	3218.0	3344.4	3634.8	4058.2	4124.1	4405.0	4565.0	3804.1
37.5°	3152.2	3167.0	3249.0	3415.6	3531.3	3902.3	4207.4	4249.1	4569.0	4750.5	4009.8
40°	3261.1	3278.5	3402.2	3577.0	3735.6	4077.0	4347.2	4360.6	4621.4	4892.9	4144.2
42.5°	3408.9	3425.1	3547.4	3766.5	3978.9	4226.2	4470.9	4485.6	4617.4	5056.9	4357.9
45°	3562.2	3601.2	3745.0	3993.7	4184.5	4401.0	4499.1	4559.6	4655.0	5203.5	4531.3
47.5°	3777.2	3813.5	3931.8	4175.1	4398.3	4554.2	4629.5	4688.6	4745.1	5331.2	4642.9
50°	4005.8	4012.5	4156.3	4376.8	4540.8	4727.6	4872.8	4892.9	4863.4	5479.0	4832.5
52.5°	4173.8	4195.3	4306.9	4521.9	4766.6	4996.4	5195.4	5216.9	5159.1	5534.1	4897.0
55°	3895.5	3883.4	4064.9	4351.2	4918.5	5397.0	5686.0	5702.2	5374.2	5704.8	5108.0
57.5°	3011.0	3068.8	3223.4	3568.9	4370.0	5574.5	6065.1	6007.3	5632.3	5790.9	5242.4
60°	2188.4	2174.9	2278.4	2509.6	3293.3	4804.2	5734.4	5793.6	5421.2	5219.6	4323.0
62.5°	1782.4	1763.6	1771.7	1779.7	2125.2	3188.5	4245.0	4243.7	4175.1	3751.7	2915.6
65°	1424.9	1469.2	1473.3	1533.7	1578.1	1904.8	2459.9	2591.6	2256.9	1851.0	1342.9
67.5°	1074.0	1057.9	1111.7	1326.7	1410.1	1375.1	1342.9	1357.7	965.1	696.3	656.0
70°	633.1	626.4	690.9	924.8	1161.4	1092.8	1012.2	1013.5	662.7	486.6	541.7
72.5°	346.8	345.5	358.9	469.1	660.0	685.5	607.6	626.4	395.2	393.9	423.4
75°	193.6	189.5	185.5	207.0	237.9	251.4	256.7	259.4	271.5	303.8	315.9
77.5°	71.2	68.6	68.6	79.3	100.8	126.4	160.0	162.6	192.2	220.5	232.5
80°	24.2	26.9	36.3	49.7	67.2	90.1	108.9	111.6	135.8	154.6	158.6
82.5°	14.8	16.1	24.2	34.9	48.4	63.2	80.7	82.0	100.8	112.9	118.3
85°	6.7	8.1	13.4	21.5	30.9	41.7	43.0	43.0	41.7	43.0	40.3
87.5°	0.0	0.0	2.7	2.7	2.7	4.0	5.4	4.0	6.7	8.1	8.1
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°	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9	4064.9
2.5°	4028.6	4013.8	3968.1	3927.8	3915.7	3861.9	3782.6	3792.0	3734.2	3761.1	3732.9
5°	3973.5	3923.8	3806.8	3757.1	3626.7	3567.5	3527.2	3426.4	3379.4	3369.9	3329.6
7.5°	3832.4	3801.4	3654.9	3520.5	3382.0	3263.8	3111.9	3008.4	2934.4	2914.3	2855.1
10°	3720.8	3652.2	3449.3	3244.9	3047.3	2841.7	2644.1	2489.5	2414.2	2326.8	2297.3
12.5°	3610.6	3507.1	3232.8	2970.7	2715.3	2455.9	2216.6	2028.4	1864.4	1825.4	1812.0
15°	3542.0	3361.9	3039.3	2723.4	2360.4	2021.7	1782.4	1658.8	1557.9	1516.3	1545.8
17.5°	3451.9	3242.2	2853.8	2433.0	2033.8	1721.9	1521.7	1445.0	1408.7	1412.8	1400.7
20°	3339.0	3129.3	2610.5	2169.6	1742.1	1493.4	1379.2	1350.9	1356.3	1365.7	1361.7
22.5°	3258.4	2992.2	2434.4	1900.7	1505.5	1367.1	1320.0	1299.9	1317.3	1325.4	1318.7
25°	3196.5	2875.3	2220.6	1662.8	1368.4	1295.8	1274.3	1273.0	1299.9	1310.6	1303.9
27.5°	3140.1	2766.4	2008.3	1481.3	1277.0	1240.7	1234.0	1250.1	1267.6	1278.3	1287.8
30°	3106.5	2683.1	1809.3	1329.4	1231.3	1213.8	1201.7	1216.5	1225.9	1236.7	1231.3
32.5°	3138.7	2623.9	1617.1	1243.4	1193.7	1176.2	1192.3	1182.9	1199.0	1208.4	1193.7
35°	3239.6	2571.5	1480.0	1197.7	1150.6	1157.4	1160.1	1156.0	1162.7	1154.7	1172.2
37.5°	3339.0	2552.7	1353.6	1158.7	1130.5	1130.5	1127.8	1119.7	1133.2	1130.5	1138.5
40°	3465.4	2564.8	1246.1	1117.0	1111.7	1109.0	1098.2	1096.9	1091.5	1092.8	1095.5
42.5°	3575.6	2591.6	1184.3	1090.2	1094.2	1099.6	1079.4	1063.3	1070.0	1056.6	1056.6
45°	3692.6	2615.8	1129.1	1071.3	1067.3	1066.0	1049.8	1040.4	1035.0	1036.4	1048.5
47.5°	3876.7	2650.8	1087.5	1045.8	1048.5	1028.3	1024.3	1012.2	1017.6	1025.6	1027.0
50°	4007.1	2724.7	1055.2	1016.2	1025.6	1012.2	988.0	982.6	982.6	996.1	993.4
52.5°	4098.5	2828.2	1024.3	984.0	988.0	977.2	969.2	957.1	949.0	967.8	977.2
55°	4378.1	3000.3	1016.2	957.1	955.7	945.0	930.2	918.1	914.1	916.8	935.6
57.5°	4351.2	2946.5	990.7	910.0	907.3	892.6	877.8	873.7	872.4	875.1	880.5
60°	3532.6	2176.3	884.5	856.3	852.2	849.5	834.8	818.6	810.6	818.6	811.9
62.5°	2337.6	1457.1	779.6	791.7	794.4	787.7	763.5	747.4	750.1	759.5	744.7
65°	1148.0	856.3	707.1	739.3	742.0	723.2	700.3	681.5	672.1	680.2	673.5
67.5°	656.0	654.6	647.9	681.5	680.2	661.4	625.1	608.9	592.8	595.5	591.5
70°	556.5	567.3	580.7	600.9	599.5	578.0	535.0	522.9	500.0	497.4	490.6
72.5°	438.2	457.0	486.6	501.4	489.3	462.4	434.2	414.0	393.9	381.8	385.8
75°	325.3	352.2	368.3	377.7	358.9	344.1	321.3	297.1	272.9	262.1	258.1
77.5°	236.6	244.6	259.4	266.2	254.1	239.3	225.8	201.6	178.8	164.0	160.0
80°	165.3	170.7	181.5	181.5	181.5	174.7	157.3	133.1	118.3	104.8	102.2
82.5°	115.6	121.0	131.7	126.4	125.0	116.9	106.2	87.4	71.2	61.8	59.1
85°	40.3	44.4	53.8	64.5	68.6	67.2	60.5	48.4	37.6	30.9	28.2
87.5°	9.4	9.4	10.8	9.4	9.4	10.8	9.4	9.4	9.4	6.7	5.4
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)