

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: P527916

Luminaire Tested: **GALN-SA3A-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10302 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

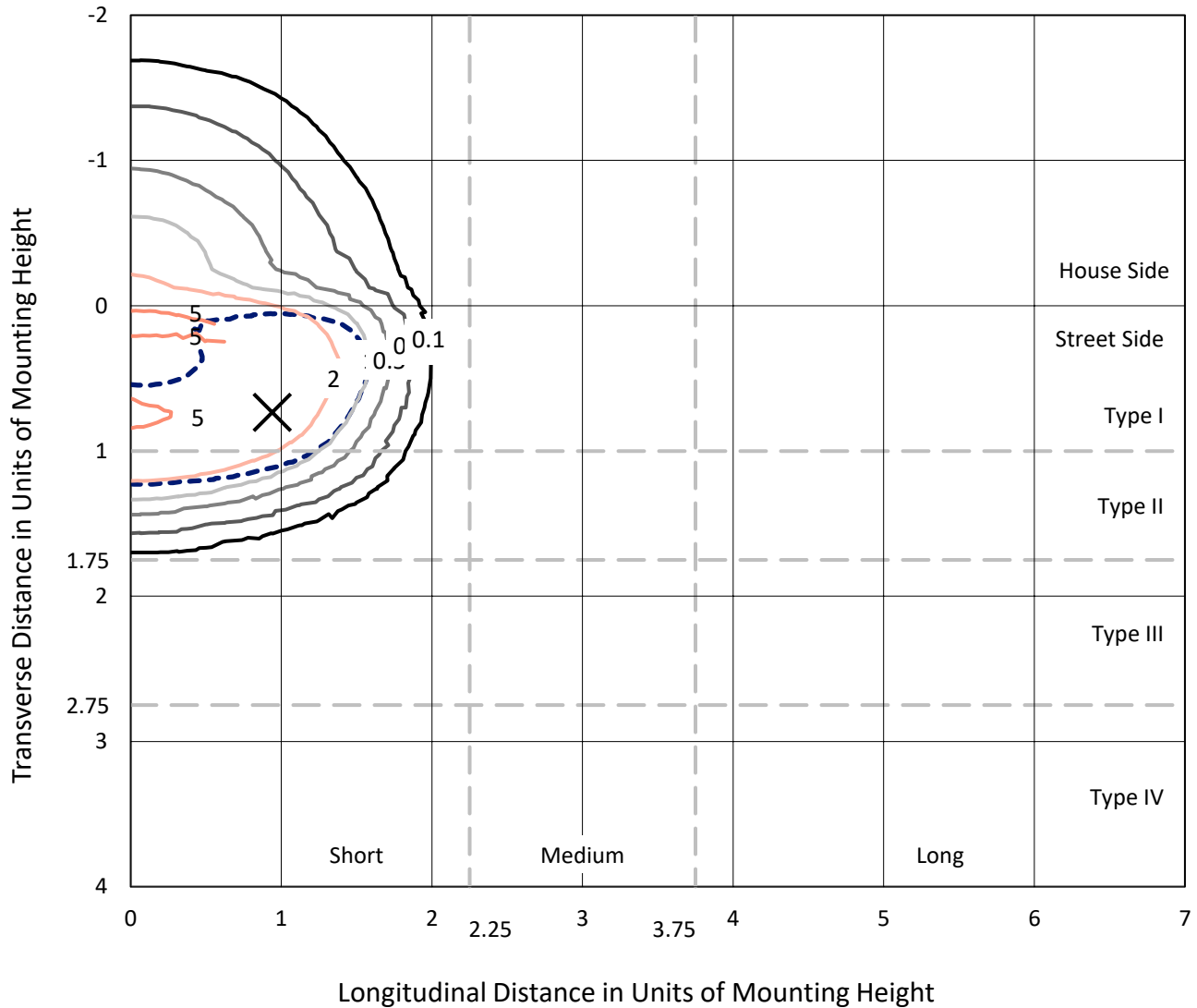
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

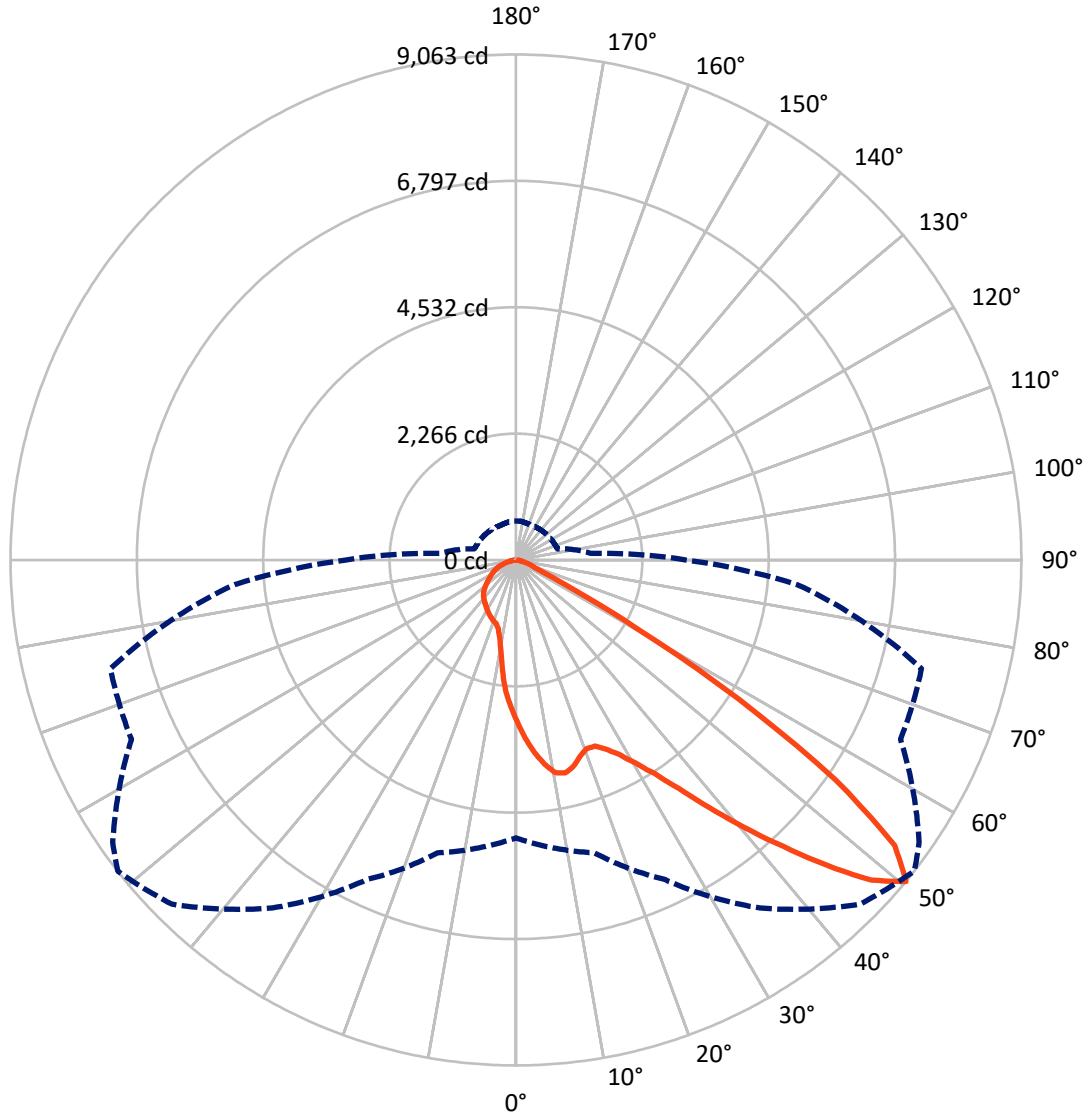
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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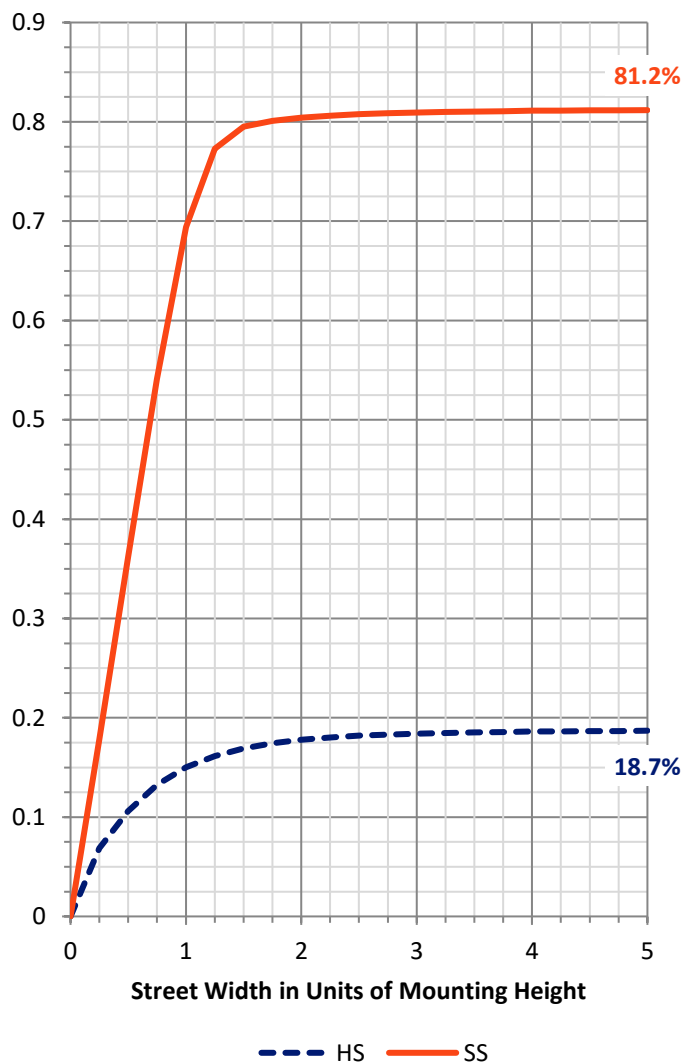
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1936.5	0.0	1936.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8365.5	0.0	8365.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	10302.0	0.0	10302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	2.6
10°-20°	717.4	7.0
20°-30°	1208.4	11.7
30°-40°	2027.8	19.7
40°-50°	3102.1	30.1
50°-60°	2261.7	22.0
60°-70°	503.3	4.9
70°-80°	181.5	1.8
80°-90°	32.1	0.3
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°	10302.0	100.0
0°-180°	10302.0	100.0

Coefficient of Utilization



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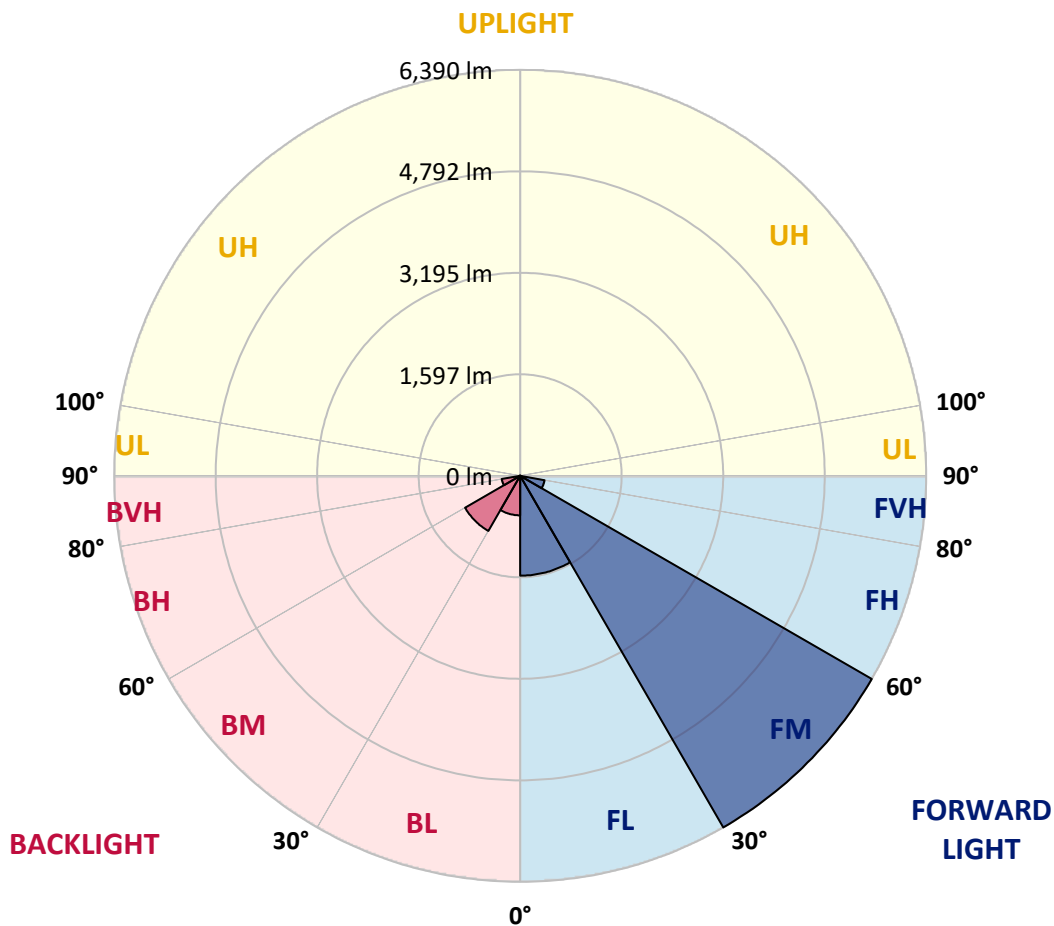
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1571.4	15.3			
FM (30°-60°)	6389.8	62.0			
FH (60°-80°)	389.8	3.8			G0/660
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	622.1	6.0	B2/1000		
BM (30°-60°)	1001.7	9.7	B2/2500		
BH (60°-80°)	295.0	2.9	B1/500		G1/500
BVH (80°-90°)	17.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0
2.5°	3419.2	3353.4	3360.8	3313.7	3262.8	3247.9	3195.7	3146.1	3108.8	3029.4	2956.1
5°	3737.0	3717.2	3687.4	3650.1	3611.6	3517.3	3463.9	3401.8	3265.3	3142.3	3020.7
7.5°	3783.0	3779.2	3795.4	3795.4	3809.0	3773.0	3697.3	3653.9	3508.6	3308.7	3082.7
10°	3460.2	3471.3	3549.6	3651.4	3792.9	3891.0	3878.6	3867.4	3708.5	3435.3	3156.0
12.5°	3203.2	3178.3	3224.3	3311.2	3523.5	3760.6	3920.8	3922.0	3881.1	3637.7	3209.4
15°	3057.9	3075.3	3087.7	3128.7	3288.8	3563.2	3845.1	3928.2	4108.3	3780.5	3293.8
17.5°	3151.0	3092.7	3090.2	3100.1	3182.1	3388.2	3704.8	3847.5	4232.4	3964.2	3398.1
20°	3272.7	3271.5	3236.7	3224.3	3223.0	3406.8	3612.9	3806.6	4298.2	4202.6	3503.6
22.5°	3486.2	3486.2	3429.1	3401.8	3343.5	3493.7	3625.3	3756.9	4407.5	4366.5	3554.5
25°	3843.8	3785.5	3687.4	3620.3	3586.8	3640.2	3756.9	3874.8	4503.1	4540.3	3660.1
27.5°	4174.1	4082.2	4033.8	3918.3	3873.6	3842.6	3949.3	4068.5	4614.8	4811.0	3717.2
30°	4549.0	4532.9	4446.0	4297.0	4186.5	4129.4	4227.4	4345.4	4819.7	5087.8	3848.8
32.5°	5219.4	5072.9	4955.0	4772.5	4592.5	4470.8	4567.6	4645.8	5159.8	5377.1	3992.8
35°	5943.3	5896.1	5692.5	5363.5	5087.8	4978.6	5035.7	5094.0	5555.9	5819.1	4234.9
37.5°	6654.7	6590.1	6422.5	6145.6	5810.4	5588.2	5629.1	5697.4	6000.4	6415.0	4530.4
40°	7166.2	7086.7	7002.3	6961.3	6628.6	6324.4	6300.8	6318.2	6601.3	6973.7	4858.1
42.5°	7203.4	7301.5	7327.6	7492.7	7414.5	7164.9	7019.7	7023.4	7174.9	7526.2	5189.6
45°	7125.2	7034.6	7227.0	7677.7	7935.9	8052.6	7808.0	7777.0	7529.9	7846.5	5354.8
47.5°	6304.5	6329.4	6654.7	7367.3	8113.5	8634.9	8577.8	8474.8	7719.9	7835.4	5328.7
50°	4983.5	5133.8	5435.5	6323.2	7616.9	8726.8	9063.2	8824.9	7606.9	7527.5	5063.0
52.5°	3318.6	3380.7	3579.4	4725.3	6124.5	7800.6	8504.6	8559.2	7502.6	7124.0	4726.5
55°	1477.4	1472.5	1751.8	2468.2	3842.6	5935.8	6948.9	7281.6	7101.6	6713.0	4398.8
57.5°	625.7	646.8	761.1	1066.5	1889.6	3581.8	4707.9	4999.7	5461.5	5512.4	3374.5
60°	423.4	425.8	456.9	533.9	790.9	1682.3	2469.4	2819.5	3149.8	3127.4	1790.3
62.5°	332.7	341.4	365.0	396.1	469.3	763.5	1105.0	1299.9	1321.0	1111.2	679.1
65°	284.3	285.6	309.1	335.2	367.5	444.5	532.6	542.6	548.8	528.9	499.1
67.5°	234.7	237.1	255.8	285.6	315.4	340.2	365.0	377.4	406.0	461.9	454.4
70°	186.2	190.0	206.1	230.9	258.2	273.1	304.2	315.4	341.4	384.9	402.3
72.5°	141.5	142.8	156.4	173.8	198.6	213.5	239.6	252.0	269.4	306.7	322.8
75°	101.8	105.5	115.5	124.2	127.9	137.8	162.6	176.3	201.1	217.3	218.5
77.5°	53.4	55.9	58.4	58.4	70.8	89.4	105.5	113.0	130.4	142.8	136.6
80°	21.1	22.3	28.6	38.5	49.7	64.6	75.7	79.5	94.4	101.8	105.5
82.5°	12.4	13.7	18.6	27.3	36.0	45.9	54.6	58.4	68.3	77.0	79.5
85°	6.2	7.4	11.2	17.4	23.6	28.6	27.3	26.1	26.1	24.8	26.1
87.5°	2.5	2.5	3.7	3.7	3.7	5.0	6.2	6.2	6.2	7.4	7.4
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°	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0	2904.0
2.5°	2907.7	2858.0	2812.1	2727.7	2635.8	2609.7	2502.9	2464.5	2437.1	2404.9	2394.9
5°	2922.6	2856.8	2709.0	2539.0	2403.6	2229.8	2115.6	1992.7	1903.3	1880.9	1874.7
7.5°	2953.6	2840.6	2586.1	2329.1	2052.3	1816.4	1636.4	1539.5	1453.8	1448.9	1440.2
10°	2988.4	2792.2	2452.0	2048.5	1694.7	1476.2	1368.2	1326.0	1304.9	1299.9	1297.4
12.5°	3016.9	2782.3	2301.8	1775.4	1441.4	1309.8	1277.5	1273.8	1282.5	1285.0	1290.0
15°	3029.4	2742.6	2120.6	1530.8	1283.8	1235.3	1249.0	1263.9	1270.1	1286.2	1273.8
17.5°	3052.9	2691.7	1897.1	1337.1	1195.6	1204.3	1227.9	1245.3	1255.2	1266.4	1250.2
20°	3065.4	2645.7	1687.3	1221.7	1164.6	1180.7	1213.0	1226.6	1239.1	1244.0	1225.4
22.5°	3054.2	2551.4	1502.3	1128.6	1134.8	1155.9	1184.4	1199.3	1191.9	1172.0	1160.8
25°	3024.4	2418.5	1309.8	1069.0	1092.6	1129.8	1152.1	1141.0	1127.3	1116.1	1112.4
27.5°	3023.2	2255.9	1170.8	1014.3	1056.6	1107.5	1100.0	1090.1	1096.3	1087.6	1077.7
30°	3029.4	2098.2	1056.6	983.3	1030.5	1055.3	1064.0	1054.1	1061.5	1045.4	1050.3
32.5°	2997.1	1944.3	982.1	947.3	999.4	998.2	1026.8	1034.2	1016.8	983.3	988.3
35°	3010.7	1820.1	918.7	931.2	964.7	964.7	987.0	978.3	932.4	912.5	917.5
37.5°	3105.1	1698.4	887.7	908.8	931.2	941.1	933.6	896.4	885.2	885.2	887.7
40°	3194.5	1594.1	869.1	903.8	900.1	906.3	851.7	855.4	855.4	856.7	850.5
42.5°	3273.9	1523.4	854.2	874.0	880.3	848.0	814.5	810.7	819.4	818.2	813.2
45°	3302.5	1465.0	833.1	840.5	845.5	792.1	776.0	768.5	778.4	782.2	787.1
47.5°	3193.2	1416.6	809.5	794.6	784.7	749.9	728.8	715.1	727.5	748.6	753.6
50°	3052.9	1353.3	772.2	743.7	722.6	707.7	692.8	679.1	687.8	702.7	699.0
52.5°	2845.6	1254.0	725.1	695.3	659.3	663.0	649.3	641.9	646.8	646.8	643.1
55°	2550.1	1030.5	645.6	624.5	594.7	604.6	607.1	597.2	587.2	595.9	588.5
57.5°	1740.6	727.5	576.1	576.1	546.3	559.9	558.7	535.1	511.5	514.0	509.0
60°	1006.9	579.8	531.4	526.4	495.4	506.5	509.0	492.9	456.9	459.4	454.4
62.5°	572.4	495.4	464.3	456.9	450.7	460.6	460.6	439.5	408.5	410.9	406.0
65°	486.7	459.4	414.7	413.4	410.9	413.4	403.5	381.2	353.8	342.7	343.9
67.5°	442.0	424.6	381.2	370.0	362.5	361.3	342.7	321.6	309.1	299.2	298.0
70°	387.4	373.7	341.4	326.5	319.1	301.7	283.1	269.4	252.0	247.1	252.0
72.5°	306.7	305.4	293.0	276.9	260.7	247.1	230.9	212.3	196.2	192.4	183.7
75°	212.3	214.8	217.3	214.8	201.1	183.7	165.1	150.2	130.4	119.2	116.7
77.5°	139.1	142.8	146.5	141.5	132.8	116.7	104.3	85.7	70.8	62.1	60.8
80°	101.8	106.8	109.3	105.5	95.6	83.2	69.5	54.6	43.5	36.0	36.0
82.5°	78.2	83.2	85.7	79.5	69.5	59.6	49.7	38.5	29.8	23.6	22.3
85°	27.3	26.1	31.0	32.3	38.5	36.0	29.8	22.3	17.4	12.4	11.2
87.5°	7.4	7.4	8.7	8.7	7.4	6.2	6.2	6.2	5.0	3.7	3.7
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)